Submitted to:
Town of Greenwich
Department of Public Works
Town Hall
101 Field Point Drive
Greenwich, CT 06836

Submitted by:
AECOM
500 Enterprise Drive
Suite 1A
Rocky Hill, CT 06067
July 2019

Remedial Action Completion Report

MISA Construction Project
Greenwich High School
Greenwich, Connecticut

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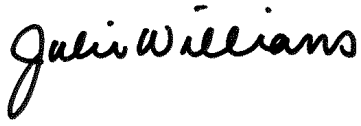

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1.0 Introduction

This Remedial Action Completion Report (RACR) documents remediation of polychlorinated biphenyls (PCBs) and other chemicals of concern (COCs) in soil within the footprint of the Music Instructional Space and Auditorium (MISA) construction area at Greenwich High School (GHS) (the Site) located at 10 Hillside Road in Greenwich, Connecticut. The owner of the Site is the Town of Greenwich (Town). This RACR covers only soil within the footprint of the MISA construction. Site-wide investigation and remedial planning is ongoing and other environmental impacts will be addressed under separate plans. Documentation of the western parking lot expansion project at the site, including stormwater system construction and utility trenching, was submitted separately. Environmental oversight activities of the MISA project included soil management, waste characterization and disposal, air monitoring and groundwater monitoring.

PCBs have been detected in soil at concentrations regulated under the applicable federal regulations in 40 CFR Part 761 and Connecticut state regulations under Section 22a-133k-1 through -3, inclusive, Remediation Standard Regulations (RSRs) of the Regulations of Connecticut State Agencies. Specifically, soil with total PCB concentrations equal to or greater than 50 milligrams per kilogram (≥50 mg/kg) that are classified as PCB Remediation Wastes and additional soil with total PCB concentrations less than 50 mg/kg also regulated under §761.61 were identified. This RACR documents remediation of the PCB-containing materials in accordance with the governing federal regulations under §761.61(a) and the governing state regulations for PCBs as well as remediation of select metals, polycyclic aromatic hydrocarbons (PAHs), and extractable total petroleum hydrocarbons (ETPH) in accordance with the RSRs. This report documents the results of environmental monitoring and sampling conducted during construction, including pre-mobilization activities, site security, post-excavation verification and waste characterization sampling, waste management and disposal activities, restoration, health and safety monitoring, air monitoring, and groundwater monitoring.

Remediation of soil impacts was completed as part of the MISA construction process. Soil remedial objectives for the overall project were consistent with RSR numerical criteria, including Residential Direct Exposure Criteria (R DEC), Pollutant Mobility Criteria for GA areas (GA PMC), and the DEC for PCBs in inaccessible soil (10 mg/kg). There were six areas of concern (AOCs) associated with the MISA construction that were addressed as part of the remedy. PCB remediation associated with construction was performed in three phases: AOC-1 was developed for waste segregation purposes and comprised the first phase of remediation in which soil with PCBs greater than or equal to fifty mg/kg (≥50 mg/kg) was removed for disposal at a Chemical Waste Landfill. During the second phase of excavation, AOC-2 was remediated to remove soil with PCBs greater than ten mg/kg (>10 mg/kg) for disposal at a non-hazardous waste landfill with permits allowing the facility to accept PCB Remediation Waste at these concentrations. The third phase of construction addressed the remaining AOCs and included removal of soil with PCBs greater than one mg/kg (1 mg/kg) but less than or equal to ten mg/kg (≤10 mg/kg) along with soil having concentrations of PAHs and lead in excess of the GA PMC. The final phase of the remediation included construction of the MISA structure, which addressed PCBs remaining in excess of 1 mg/kg and met the requirements of a cap under §761.61(a)(7). Remediation was completed as noted in the table below.

AOC	Description
AOC -1	AOC-1 includes soil containing PCB concentrations ≥50 mg/kg and was excavated as part of Phase 1 of the PCB remediation plan. This soil was disposed as PCB Remediation Waste at a Chemical Waste Landfill permitted in accordance with 40 CFR 761.75.
AOC-2	AOC-2 includes soil containing PCBs >10mg/kg following verification of successful remediation of AOC-1. This soil was disposed of as non-hazardous waste. Additionally, this area includes soil with lead in excess of the GA PMC.
AOC-3	AOC-3 includes soil with lead concentrations in excess of the GA PMC and PCBs greater than 1 mg/kg and less than or equal to 10 mg/kg.
AOC-4	AOC-4 includes soil with ETPH concentrations in excess of the GA PMC and PCBs greater than 1 mg/kg and less than or equal to 10 mg/kg.
AOC-5	AOC-5 includes all soil containing PCBs > 1 mg/kg and was designated as such to provide the MISA construction contractor with restrictions on soil management and/or reuse. AOC-5 is further described in **Section 6.5**.
AOC-6	AOC-6 incudes soil within the MISA footprint outside the limits of AOC-5 (i.e., with PCB concentrations less than 1mg/kg), where PAH concentrations were present in excess of the GA PMC.

Because remediation was conducted as part of a larger construction project, provisions for erosion and sediment controls and site security were handled as part of construction planning. However, prior to commencing construction activities, remediation of PCBs in soil ≥50 mg/kg was performed. Verification sampling was performed as per 40 CFR Part 761 Subpart O to confirm that soil with PCBs ≥50 mg/kg had been removed. Following successful completion of the ≥50 mg/kg PCB excavation work, additional excavation work was performed in conjunction with construction activities to remove PCB impacted soil at concentrations >10 mg/kg. Additional verification sampling followed this excavation work to determine that remedial goals had been achieved.

Following determination that the PCB excavations were complete, additional sampling was performed to confirm that remaining soil impacted with other COCs was in compliance with the GA PMC.

2.0 Site Description

The GHS property is located at 10 Hillside Road in Greenwich, Connecticut, which is approximately 73.61 degrees west longitude and 41.04 degrees north latitude. A Site Location Map is provided as **Figure 2-1**, and a site plan indicating property boundaries, major site features, and the MISA construction footprint is provided as **Figure 2-2**.

Information obtained from the Town of Greenwich Tax Assessor's office indicates that the property is currently owned by the Town of Greenwich, the legal size of the property is 54.75 acres, and the parcel number is 07-4511/S. The property was acquired by the Town in 1966, and construction on the initial high school buildings was completed in 1970. Additional construction, including the addition of building wings, was performed in 1990.

Sanborn fire insurance maps indicate that prior to 1966 and purchase of the site by the Town, the property was occupied by several residences and outbuildings at the perimeter and a water body that was located centrally, referred to as an ice pond on the Sanborn maps, with an associated ice house. Historical records indicate that fill was brought onto the property to backfill the pond area prior to and during construction of the school. In the early 1970s, additional fill was added to address settling in the western parking area.

The property is in an area that is zoned for single-family residential use (R-20) and it is bounded by residential properties to the north and west, East Putnam Avenue (U.S. Route 1) to the south, and Hillside Road to the east. Residential properties are located beyond East Putnam Avenue and Hillside Road. The property is currently in active use as a high school. Improvements include a high school building complex with multiple specific-use wings, paved parking areas, and athletic fields. Utilities serving the property include municipal water, storm drainage, sewer, electricity, and communications. The remainder of the property is landscaped or wooded. West Brothers Brook enters the property in the northwest, follows the western boundary, then curves east between the football stadium (Field 1) and the baseball diamond (Field 2) before it widens into a small surface water impoundment in the southeast corner of the property. Water from the impoundment exits the property via a culvert under East Putnam Avenue.

The Natural Resources Conservation Service maps indicate that native soils in the site vicinity consist generally of sand and gravel with areas of rock outcrops. Historical investigations indicate that native soils at the Site also consist of highly organic soil and peat in the area of the former pond beneath Fields 2, 3 and 4. The United States Geological Survey (USGS) "Surficial Materials Map of Connecticut", dated 1992, indicates thin till at the property location. The "Bedrock Geology Map of Connecticut", produced by CT Department of Environmental Protection and USGS and dated 1985, shows bedrock at the property location as foliated gneiss.

As shown on **Figure 2-2**, the MISA construction footprint is located at the northwest corner of the existing buildings. The structure located to the south was part of the original construction completed in 1970. The structure located to the east of the MISA footprint was constructed in 1990. Historical aerial photographs and available drawings indicate that the area within the MISA footprint was completed as a parking lot at the time of original construction of the buildings.

3.0 Remedial Design and Goals

A Remedial Action Plan (RAP) was completed in January 2012. The RAP included details to remediate soil with PCBs in excess of 10 mg/kg, as well as metals, ETPH, and PAHs in excess of the GA Pollutant Mobility Criteria (PMC). The remedial goals were as follows:

- Remove soil with total PCB concentrations ≥50 mg/kg and perform verification sampling to confirm that this remedial goal was achieved;
- Remove soil with total PCB concentrations >10 mg/kg and perform verification sampling to confirm that this remedial goal was achieved;
- Render soil containing COCs at concentrations exceeding the Residential Direct Exposure Criteria (DEC) inaccessible;
- Remove soil exceeding the GA PMC for PCBs from within the MISA footprint and perform confirmation sampling;
- Remove soil exceeding the GA PMC for lead, ETPH, and PAHs from within the MISA footprint and perform confirmation sampling;
- Construct the MISA building, which will constitute a cap conforming with the requirements of §761.61(a)(7); and
- Implement the deed restriction required by §761.61(a)(8) (please note the deed restriction will be implemented as part of site wide remediation which is ongoing).

Verification sampling was performed as per 40 CFR Part 761 Subpart O to determine if soil with PCBs ≥50 mg/kg had been removed. Following successful completion of the ≥50 mg/kg PCB excavation work, additional excavation work was performed to remove PCB impacted soil at concentrations >10 mg/kg. Additional verification sampling was performed as per Subpart O following this excavation work to confirm that remedial goals for PCBs were achieved. The remedial excavations also removed soil containing other COCs at concentrations in excess of GA PMC. Verification sampling for areas without exceedances of PCB cleanup criteria were collected at a frequency of one for every 500 square feet (SF) of excavation base and one for every 20 linear feet (LF) of sidewall.

The RAP included procedures for verification sampling, decontamination, waste handling, storage and disposal, air monitoring and groundwater monitoring, which are detailed in the sections below.

4.0 Pre-Construction Activities

4.1 Remediation Contractor Involvement

Remediation of soil impacts were completed as part of the MISA construction process. The General Contractor for the MISA construction project was Turner Construction Co. (Turner). All subcontracting for the remediation during the MISA project was managed through Turner. The following contractors were involved in the soil remediation activities at the Site:

- AMEC Construction LLC– soil excavation and loading,
- EQ Northeast – transportation & disposal (T&D);
- Seneca Meadows– transportation & disposal (T&D),
- Phoenix Soil, LLC - transportation & disposal (T&D),
- GZA GeoEnvironmental – Groundwater monitoring; and
- Spectrum Analytical Laboratories, Inc. – analytical laboratory.

Much of the construction process, permitting, and remediation tasks were completed by AMEC, including excavation, soil loading, dewatering, and decontamination. Details related to AMEC's activities are included in the AMEC Remediation Work Plan, included in **Appendix A**.

4.2 Permits and Approvals

Permits and approvals required for the construction activities were obtained by AMEC, as summarized in their Work Plan, included in **Appendix A**. The RAP was approved by the EPA on December 3, 2012. A copy of this approval is included in **Appendix B**.

4.3 Health and Safety Plan

AECOM prepared a Site-specific Health and Safety Plan (HASP) under which AECOM work activities were performed. Other contractors involved in the MISA construction activities were responsible for developing and following their own safety programs.

4.4 Public Notice

Notice of the remediation activities was provided to the public via community updates posted on the Town's website and through public meetings. A sign was also posted at the facility entrance. The sign stated that soil remediation was in progress at the Site and provided project contact information.

5.0 Technical Overview

The following subsections provide an overview of the remedial activities completed at the site.

5.1 Utility Mark-Out

Prior to intrusive work activities and in accordance with Connecticut state law, Call-Before-You-Dig (CBYD) was contacted to locate underground public utilities. AMEC was responsible for the CBYD notification and location and protection of all subsurface utilities within the project area.

5.2 Security

Temporary fencing and signage was installed to secure the work area during construction activities. Security was managed by the General Contractor, Turner Construction.

5.3 Excavation Activities

Excavations were conducted to limits shown on **Figure 5-1**. The excavations of AOC-1, AOC-2, AOC-3, AOC-4, and AOC-6 are described in **Section 6.0**. No separate excavations were performed in association with AOC-5. Photographs of the construction activities are provided in **Appendix C**.

5.4 Soil Sampling and Analysis

During the MISA remediation, a total of 168 soil cleanup verification samples were collected. Soil samples were collected as grab samples and placed in appropriate laboratory-supplied glassware for transportation to the laboratory.

Verification samples for PCBs were collected in accordance with 40 CFR Part 761 Subpart O. For the soil excavations with PCBs ≥50 mg/kg (AOC-1) and PCBs >10 mg/kg (AOC-2) verification samples were collected as follows:

- A square-based grid was overlaid on the entire area to be sampled. The grid axes were oriented on magnetic north-south line centered in the area and an east-west axis perpendicular to the magnetic north-south axis also centered in the area.
- Sampling points were marked out 1.5 meters (approximately 5 feet) apart oriented to the grid axes in every direction to the extent sufficient to result in a two-dimensional grid completely overlaying the surface of the excavation area.
- Samples were collected at every grid node that fell within the remediation area and were collected from surficial soil (0” to 3” bgs) at each sampling point.
- Where verification sample results exceeded the applicable remedial goal (PCBs ≥50 mg/kg for AOC-1 and PCBs >10 mg/kg for AOC-2) additional excavation was performed prior to proceeding with remediation of additional AOCs. A sampling grid was established for the newly-excavated area as previously described.

- If any remediation area was small enough such that three sampling points did not fall within the area based upon a 1.5 meter grid system, the grid was established as described above but a smaller grid interval was employed such that a minimum of three samples were collected.

Verification samples for lead, ETPH, and PAHs were collected at a frequency of one per every 500 square foot of excavation base and per every 20 LF of sidewall. Verification samples for PCBs were collected at the same frequency as those for lead and EPTH in excavations AOC-3 and4, so the concentrations of PCBs remaining at these locations beneath the MISA footprint could be documented.

Samples were submitted to Spectrum under chain of custody protocol. Laboratory quality assurance/quality control (QA/QC) procedures included calibration checks, method blanks, surrogate spikes, laboratory duplicates, laboratory control spikes (LCS), matrix spike/matrix spike duplicates (MS/MSD), and internal standards. Field duplicates were collected at a frequency of approximately one duplicate per 20 samples collected. Analyses were performed in accordance with the State of Connecticut Reasonable Confidence Protocols (RCPs). Details of the post construction analytical results for each work area are summarized and discussed in **Section 6.0**.

5.4.1 Waste Characterization Sampling and Analysis

For the MISA remediation area, waste characterization was performed using results from environmental sampling and pre-construction planning. Samples were analyzed in accordance with the requirements of the receiving disposal facility. Soil from the remedial excavations was loaded directly into trucks for disposal or into roll offs. Soil was not stockpiled prior to disposal. Waste disposal is discussed in **Section 7.0**.

5.4.2 Clean Fill Sampling and Analysis

Imported fill material was not required to backfill the remedial excavations because the MISA building was constructed in the excavation footprints. A portion of excavated soil deemed appropriate for on-site reuse was segregated and stockpiled on-site for reuse as necessary during the construction activities.

5.5 Equipment Decontamination

Decontamination of equipment coming in contact with impacted materials was performed as described in the Remedial Plan (AECOM, 2012).

5.6 Groundwater Monitoring

Construction of the MISA building included dewatering. The dewatering process was approved by EPA and was implemented by AMEC. Groundwater gauging was performed at several select wells in the area of the work and groundwater was collected from wells MW-AH16 and MW-AJ19 during the dewatering process. The groundwater monitoring data indicated that during dewatering, PCBs were detected in samples from monitoring wells MW-AH16 and MW-AJ19. MW-AH16 was located in the area of highest soil impacts and MW-AJ19 is located in the construction dewatering area. Post-dewatering samples collected following shutdown of the dewatering system indicated that PCBs continue to be detected in MW-AH16, consistent with historical results, while PCBs were not detected

in MW-AJ19 (also consistent with historical, pre-construction sampling results). Groundwater monitoring data is included in **Appendix D.**

5.7 Air Monitoring

Air monitoring was performed to be protective of site workers, other site users, and the surrounding community. Exposure limits established by the Occupational Safety and Health Administration (OSHA) were used to protect site workers, specifically, the Permissible Exposure Limit (PEL). PELs were evaluated for lead and PCBs and it was determined that lead would be the driver for determining exposure limits as lead was present in higher concentrations within soil and has significantly lower PELs. Based on soil lead concentrations and the anticipated exposure duration and frequency of the MISA project, a particulate action level of 150 µg/m^3 was determined to be appropriate for work safety during the project.

Air monitoring at the perimeter of the work area during the performance of excavation activities was done in the following manner:

- Background levels for particulate matter less than 10 microns in respirable diameter (PM_{10}) was determined prior to construction. PM_{10} was used as the suspended solid surrogate for respirable lead and PCB monitoring at the perimeter.
- It was anticipated that background levels of PM_{10} would vary throughout the day given the use of the Site. Specifically, at the beginning and end of each school day, there is a large amount of bus and vehicular traffic on the property that could lead to increases in PM_{10} concentrations. Thus, background concentrations were established that varied according to the time of day.
- Exceedances of air monitoring action levels, when they occurred, were typically associated with excess vehicle traffic and/or construction activities. Following action level exceedances, work was stopped and engineering controls (water mist) were used to abate the excess dust condition.

Air monitoring reports are included as **Appendix E**.

6.0 Post-Excavation Sampling

This section details the implementation and completion of the soil remediation activities at each AOC. Subsections discuss the remedial objective for each excavation area and remediation performed. Post-excavation verification sample results are provided in **Table 6-1** through **Table 6-8**. Post-excavation verification sample locations are depicted on **Figure 6-1** through **Figure 6-8**. Laboratory analytical reports for confirmatory post-excavation samples are provided in **Appendix F**. Data quality assessment (DQA) and Data Usability Evaluation (DUE) forms are provided in **Appendix G**.

As described below, remediation of PCBs was conducted in two phases. Phase One included removal of soil with PCBs ≥50 mg/kg from AOC-1. Following confirmation that all soil ≥50 mg/kg was removed, Phase Two began. Phase Two included removal of all soil with PCBs >10 mg/kg PCBs from AOC-2. Following confirmation that all soil containing >10 mg/kg PCBs was removed; remediation of all other COCs was completed.

6.1 AOC-1

AOC-1 contained soil ≥50 mg/kg and encompassed two excavations, AOC-1a and AOC-1b, as shown on **Figure 6-1**. As per the RAP, the upper three feet of clean soil was removed and segregated and stockpiled within the MISA footprint for use during construction. AOC-1a is located to the south and was initially excavated to a 20-foot by 20-foot by 8-foot deep area, and AOC-1b is located to the north and was initially excavated to a 20-foot by 20-foot by 6-foot deep area. Areas where expansion of the initial excavations were required and final confirmation sampling locations are depicted in **Figure 6-1**.

6.2 AOC-2

AOC-2 contained soil in excess of 10 mg/kg and included three excavations, AOC-2a, AOC-2b, and AOC-2c, as shown on **Figure 6-2**. As per the RAP, the upper three feet of clean soil was removed and segregated and stockpiled within the MISA footprint for use during construction. AOC-2a, located to the southeast, was initially excavated to a 20-foot by 10-foot by 5-foot deep area; AOC-2b, located to the north, was initially excavated to a 20-foot by 10-foot by 6-foot deep area; and AOC-2c, located to the southwest, was excavated to a 20-foot by 10-foot by 8-foot deep area. Areas where expansion of the initial excavations were required and final confirmation sampling locations are depicted in **Figure 6-2**.

AOC-2b included soil with lead in excess of the GA PMC. Following completion of remediation of soil with PCBs in excess of 10 mg/kg, confirmation samples were collected for lead as shown on **Figure 6-3**. Soil remained in excess of the GA PMC; however, this soil will be environmentally isolated beneath the MISA wing and will be addressed by the deed restriction that will be placed on the property. The final building footprint is shown on the as-built included as **Appendix H**.

6.3 AOC-3

AOC-3 contained soil with lead in excess of the GA PMC and PCBs in excess of 1 mg/kg, as shown on **Figure 6-4** and **Figure 6-5**. As per the RAP, the upper three feet of clean soil was removed and

segregated and stockpiled within the MISA footprint for use during construction. As per the RAP, AOC-3 was initially excavated to a 30-foot by 30-foot by 8-foot deep area. Areas where expansion of the initial excavations were required and final confirmation sampling locations are depicted in **Figure 6-4** and **Figure 6.5.** Soil remained in excess of the GA PMC; however, this soil will be environmentally isolated from infiltration of water and will be covered by the deed restriction that will be placed on the property. The final building footprint is shown on the as-built included as **Appendix H.**

6.4 AOC-4

AOC-4 contained soil with ETPH in excess of the GA PMC and PCBs in excess of 1 mg/kg. As per the RAP, the upper three feet of clean soil was removed and segregated and stockpiled within the MISA footprint for use during construction. As per the RAP, AOC-3 was excavated to a 30-foot by 30-foot by 8-foot deep area. Excavation limits and final confirmation sampling locations are depicted in **Figure 6-6** and **Figure 6-7.**

6.5 AOC-5

AOC-5 included all soil within the MISA footprint with PCBs in excess of 1 mg/kg. The limits of AOC-5 are shown on **Figure 5-1**. The purpose of designating this AOC was to put restrictions on which soil could be moved or reused as part of construction activities and provide spatial limits for the future deed restriction. AOCs 1 through 4 are located within the footprint of AOC-5. As per the RAP, no verification sampling was performed or required for construction related excavations within MISA AOC-5. The construction of the MISA structure addressed PCBs remaining in excess of 1 mg/kg following completion of the excavation activities and meets the requirements of a cap under §761.61(a)(7). As per the letter included in **Appendix I**, a deed restriction will be filed when remediation of the entire Site is complete.

6.6 AOC-6

AOC-6 included soil beneath the MISA footprint with PAHs in excess of the GA PMC. As per the RAP, the upper three feet of clean soil was removed and segregated and stockpiled within the MISA footprint for use during construction. AOC-6 was initially excavated to a 20-foot by 20-foot by 4-foot deep area. Areas where expansion of the initial excavations were required and final confirmation sampling locations are depicted in **Figure 6-8.**

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7.0 Soil Management and Disposal

Soil requiring disposal was characterized and profiled for disposal in accordance with the designated disposal facility requirements, as described in **Section 5.4.1**. Waste profiles are included in **Appendix J**. Three separate waste streams were designated for soil waste.

1. Soil containing PCB concentrations ≥50 mg/kg was transported to the EQ Wayne Disposal facility in Belleville, Michigan. The Wayne Disposal facility is a RCRA landfill and chemical waste landfill permitted to accept PCB remediation waste in accordance with 40 CFR 761.75. All soil containing ≥50 mg/kg PCBs was live loaded for transport to the Wayne Disposal facility under Uniform Hazardous Waste Manifest. The waste disposal documentation for this material is included in **Appendix K**.
2. Soil containing PCB concentrations >1 mg/kg but <50 mg/kg and containing lead, PAHs, or ETPH exceeding the GA PMC was transported by SRS National LLC of Southington, CT to Seneca Meadows landfill in Waterloo, New York. The waste disposal documentation for this material is included in **Appendix K**.
3. Soil containing PCB concentrations <1 mg/kg and containing lead, PAHs, or ETPH in excess of the GA PMC was designated as Connecticut Regulated Waste (CT Regulated Waste) and sent to the Clean Earth Soil (formerly Phoenix Soil LLC). The waste disposal documentation for CT Regulated Waste soil is included in **Appendix K**.

8.0 Site Restoration and Demobilization

Following excavation activities, construction of the MISA structure continued. Site restoration was completed following completion of the MISA structure. As-built drawings showing final restoration are included in **Appendix H.**

9.0 References

AECOM, 2012. *Soil Remedial Action Plan* Greenwich High School Property. Greenwich, Connecticut. January 2012.

Connecticut Department of Energy and Environmental Protection, 2013. Remediation Standard Regulations, Sections 22a-33k-1 through 22a-33k-3. June 27, 2013.

United States Environmental Protection Agency. Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and use Prohibitions, 40 C.F.R.§761.

Tables

AECOM

Table 6-1
Soil Analytical Data
AOC-1a

Greenwich High School
10 Hillside Road
Greenwich, Connecticut

Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	PCB Remediation Waste Threshold	2013-GA/GAA PMC	2013-RES DEC	2013-I/C DEC	1AOC-1a-AAN02 8 - 8 ft AOC-1A-AAN02(8)- 7/24/2013 SB73732	AOC-1A-2-SS1 0 - 0.5 ft AOC-1A-2-SS1-1 7/30/2013 SB74024	AOC-1A-2-SS2 0 - 0.5 ft AOC-1A-2-SS2-1 7/30/2013 SB74024	AOC-1A-2-SS3 0 - 0.5 ft AOC-1A-2-SS3-1 7/30/2013 SB74024	AOC-1a-AA00 8 - 8 ft AOC-1A-AA00(8)-1 7/24/2013 SB73732	AOC-1a-AAN01 8 - 8 ft AOC-1A-AAN01(8)-1 7/24/2013 SB73732	AOC-1a-AAN03 3 - 3 ft AOC-1A-AAN03(3)-1 7/24/2013 SB73732	AOC-1a-AAS01 8 - 8 ft AOC-1A-AAS01(8)-1 7/24/2013 SB73732	AOC-1a-AAS02 8 - 8 ft AOC-1A-AAS02(8)-1 7/24/2013 SB73732
PCBs (mg/kg)													
Aroclor 1248	NE	NE	NE	NE	**0.277**	**1.09**	**3.15**	**0.616**	**2.72**	**0.119**	< 0.109	**0.363**	**2.2**
Aroclor 1260	NE	NE	NE	NE	< 0.0222	**0.0431**	**0.0767**	**0.0277**	**0.0504**	< 0.0210	< 0.0219	< 0.0208	**0.0641**
Total PCB Aroclors	**>50**	**NA**	**1**	**10**	**0.277**	**1.1331**	**3.2267**	**0.6437**	**2.7704**	**0.119**	ND	**0.363**	**2.2641**

Notes:
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Blue highlighted cells exceed RES DEC.
Green highlighted cells exceed IC DEC.
<0.01 = Not detected above the specified laboratory reporting limit
DEC = Direct Exposure Criteria .
GA/GAA PMC = Pollutant Mobility Criteria
NE = Criteriion has not been established
NS = Not Sampled for Specific Analyte
ug/kg = microgram per kilogram
NS = Not sampled for this constituent..
mg/kg = miligram per kilogram

AECOM

Table 6-1
Soil Analytical Data
AOC-1a

Greenwich High School
10 Hillside Road
Greenwich, Connecticut

Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	PCB Remediation Waste Threshold	2013-GA/GAA PMC	2013-RES DEC	2013-I/C DEC	AOC-1a-AAS03 3 - 3 ft AOC-1A-AAS03(3)-1 7/24/2013 SB73732	AOC-1a-EB00 8 - 8 ft AOC-1A-EB00(8)-1 7/24/2013 SB73732	AOC-1a-EBN01 8 - 8 ft AOC-1A-EBN01(8)-1 7/24/2013 SB73732	AOC-1a-EBN02 8 - 8 ft AOC-1A-EBN02(8)-1 7/24/2013 SB73732	AOC-1a-EBN03† 3 - 3 ft AOC-1A-EBN03(3)-1 7/24/2013 SB73732	AOC-1a-EBS01 8 - 8 ft AOC-1A-EBS01(8)-1 7/24/2013 SB73732	AOC-1a-EBS02 7 - 7 ft AOC-1A-EBS02(7)-1 7/24/2013 SB73732	AOC-1a-EBS03 3 - 3 ft AOC-1A-EBS03(3)-1 7/24/2013 SB73732	AOC-1a-EC00 8 - 8 ft AOC-1A-EC00(8)-1 7/24/2013 SB73732
PCBs (mg/kg)													
Aroclor 1248	NE	NE	NE	NE	**1.01**	**0.757**	**4.41**	**0.721**	**33**	**0.224**	**3.56**	< 0.0961	< 0.0214
Aroclor 1260	NE	NE	NE	NE	**0.0353**	< 0.0235	**0.182**	**0.0350**	**0.644**	< 0.0216	< 0.0238	< 0.0192	< 0.0214
Total PCB Aroclors	**>50**	**NA**	**1**	**10**	**1.0453**	**0.757**	**4.592**	**0.756**	**33.644**	**0.224**	**3.56**	ND	ND

Notes:
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Blue highlighted cells exceed RES DEC.
Green highlighted cells exceed IC DEC.
<0.01 = Not detected above the specified laboratory reporting limit
DEC = Direct Exposure Criteria .
GA/GAA PMC = Pollutant Mobility Criteria
NE = Criteriion has not been established
NS = Not Sampled for Specific Analyte
ug/kg = microgram per kilogram
NS = Not sampled for this constituent..
mg/kg = miligram per kilogram

AECOM

Table 6-1
Soil Analytical Data
AOC-1a

Greenwich High School
10 Hillside Road
Greenwich, Connecticut

Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	PCB Remediation Waste Threshold	2013-GA/GAA PMC	2013-RES DEC	2013-I/C DEC	AOC-1a-ECN01 8 - 8 ft AOC-1A-ECN01(8)-1 7/24/2013 SB73732	AOC-1a-ECN02 8 - 8 ft AOC-1A-ECN02(8)-1 7/24/2013 SB73732	AOC-1a-ECS01† 8 - 8 ft AOC-1A-ECS01(8)-1 7/24/2013 SB73732	AOC-1a-ECS02 8 - 8 ft AOC-1A-ECS02(8)-1 7/24/2013 SB73732	AOC-1a-ECS03 3 - 3 ft AOC-1A-ECS03(3)-1 7/24/2013 SB73732	AOC-1a-ED00 3 - 3 ft AOC-1A-ED00(3)-1 7/24/2013 SB73732	AOC-1a-EDN01 3 - 3 ft AOC-1A-EDN01(3)-1 7/24/2013 SB73732	AOC-1a-EDN02 3 - 3 ft AOC-1A-EDN02(3)-1 7/24/2013 SB73732	AOC-1a-EDS01 3 - 3 ft AOC-1A-EDS01(3)-1 7/24/2013 SB73732
PCBs (mg/kg)													
Aroclor 1248	NE	NE	NE	NE	**0.525**	< 0.0215	**94.3**	**0.659**	< 0.0209	< 0.111	< 0.109	< 0.0241	**2.33**
Aroclor 1260	NE	NE	NE	NE	< 0.0217	< 0.0215	**2.3**	< 0.0208	< 0.0209	< 0.0222	< 0.0217	< 0.0241	**0.0557**
Total PCB Aroclors	**>50**	**NA**	**1**	**10**	**0.525**	ND	**96.6**	**0.659**	ND	ND	ND	ND	**2.3857**

Notes:
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Green highlighted cells exceed IC DEC.
<0.01 = Not detected above the specified laboratory reporting limit
DEC = Direct Exposure Criteria .
GA/GAA PMC = Pollutant Mobility Criteria
NE = Criteriion has not been established
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ug/kg = microgram per kilogram
NS = Not sampled for this constituent..
mg/kg = miligram per kilogram

Table 6-1
Soil Analytical Data
AOC-1a

Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	PCB Remediation Waste Threshold	2013-GA/GAA PMC	2013-RES DEC	2013-I/C DEC	AOC-1a-EDS02 3 - 3 ft AOC-1A-EDS02(3) 7/24/2013 SB73732	AOC-1a-WB00 8 - 8 ft AOC-1A-WB00(8)-1 7/24/2013 SB73732	AOC-1a-WBN01 8 - 8 ft AOC-1A-WBN01(8)- 7/24/2013 SB73732	AOC-1a-WBN02† 8 - 8 ft AOC-1A-WBN02(8)- 7/24/2013 SB73732	AOC-1a-WBN03 3 - 3 ft AOC-1A-WBN03(3)- 7/24/2013 SB73732	AOC-1a-WBS01 8 - 8 ft AOC-1A-WBS01(8)- 7/24/2013 SB73732	AOC-1a-WBS02 8 - 8 ft AOC-1A-WBS02(8)- 7/24/2013 SB73732	AOC-1a-WBS03 3 - 3 ft AOC-1A-WBS03(3)- 7/24/2013 SB73732	AOC-1a-WC00 7 - 7 ft AOC-1A-WC00(7)-1 7/24/2013 SB73732
PCBs (mg/kg)													
Aroclor 1248	NE	NE	NE	NE	**0.117**	< 0.109	**0.48**	**23.7**	< 0.106	**0.611**	**8.55**	**3.02**	**0.141**
Aroclor 1260	NE	NE	NE	NE	< 0.0221	< 0.0219	< 0.0210	**0.628**	< 0.0212	< 0.0220	< 0.212	**0.0940**	< 0.0216
Total PCB Aroclors	**>50**	**NA**	**1**	**10**	**0.117**	ND	**0.48**	**24.328**	ND	**0.611**	**8.55**	**3.114**	**0.141**

Notes:
This is a summary table. Only detected compounds are presented.
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Red highlighted cells exceed PCB Remediation Waste Threshold.
Blue highlighted cells exceed RES DEC.
Green highlighted cells exceed IC DEC.
<0.01 = Not detected above the specified laboratory reporting limit
DEC = Direct Exposure Criteria .
GA/GAA PMC = Pollutant Mobility Criteria
NE = Criteriion has not been established
NS = Not Sampled for Specific Analyte
ug/kg = microgram per kilogram
NS = Not sampled for this constituent..
mg/kg = miligram per kilogram

Table 6-1
Soil Analytical Data
AOC-1a

Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	PCB Remediation Waste Threshold	2013-GA/GAA PMC	2013-RES DEC	2013-I/C DEC	AOC-1a-WCN01 7 - 7 ft AOC-1A-WCN01(7)- 7/24/2013 SB73732	AOC-1a-WCN02 3 - 3 ft AOC-1A-WCN02(3)- 7/24/2013 SB73732	AOC-1a-WCS01 7 - 7 ft AOC-1A-WCS01(7)- 7/24/2013 SB73732	AOC-1a-WCS02 3 - 3 ft AOC-1A-WCS02(3)- 7/24/2013 SB73732	AOC-1a-WD00 3 - 3 ft AOC-1A-WD00(3)-1 7/24/2013 SB73732	AOC-1a-WDN01 3 - 3 ft AOC-1A-WDN01(3)- 7/24/2013 SB73732	AOC-1a-WDS01 3 - 3 ft AOC-1A-WDS01(3)- 7/24/2013 SB73732
PCBs (mg/kg)											
Aroclor 1248	NE	NE	NE	NE	< 0.0208	< 0.107	**3.09**	< 0.109	< 0.106	< 0.106	< 0.109
Aroclor 1260	NE	NE	NE	NE	< 0.0208	< 0.0213	**0.0985**	< 0.0218	< 0.0213	< 0.0212	< 0.0218
Total PCB Aroclors	**>50**	**NA**	**1**	**10**	ND	ND	**3.1885**	ND	ND	ND	ND

Notes:
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Blue highlighted cells exceed RES DEC.
Green highlighted cells exceed IC DEC.
<0.01 = Not detected above the specified laboratory reporting limit
DEC = Direct Exposure Criteria .
GA/GAA PMC = Pollutant Mobility Criteria
NE = Criteriion has not been established
NS = Not Sampled for Specific Analyte
ug/kg = microgram per kilogram
NS = Not sampled for this constituent..
mg/kg = miligram per kilogram

AECOM

Table 6-2
Soil Analytical Data
AOC-1b

Greenwich High School
10 Hillside Road
Greenwich, Connecticut

Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	PCB Remediation Waste Threshold	2013-RES DEC	2013-I/C DEC	AOC-1B-2-SS1 0 - 0.5 ft AOC-1B-2-SS1-1 8/13/2013 SB74890	AOC-1B-2-SS2 0 - 0.5 ft AOC-1B-2-SS2-1 8/13/2013 SB74890	AOC-1B-2-SS3 0 - 0.5 ft AOC-1B-2-SS3-1 8/13/2013 SB74890	AOC-1B-3-SS1 0 - 0.5 ft AOC-1B-3-SS1-1 8/13/2013 SB74891	AOC-1B-3-SS2 0 - 0.5 ft AOC-1B-3-SS2-1 8/13/2013 SB74891	AOC-1B-3-SS3† 0 - 0.5 ft AOC-1B-3-SS3-1 8/13/2013 SB74891	AOC-1B-AA00 6 - 6 ft AOC-1B-AA00(6)-1 7/26/2013 SB73888	AOC-1B-AAN01 6 - 6 ft AOC-1B-AAN01(6)-1 7/26/2013 SB73888	AOC-1B-AAN02 6 - 6 ft AOC-1B-AAN02(6)-1 7/26/2013 SB73888	AOC-1B-AAN03 3 - 3 ft AOC-1B-AAN03(3)-1 7/26/2013 SB73888	AOC-1B-AAS01 6 - 6 ft AOC-1B-AAS01(6)-1 7/26/2013 SB73888	AOC-1B-AAS02 6 - 6 ft AOC-1B-AAS02(6)-1 7/26/2013 SB73888	AOC-1B-AAS03 3 - 3 ft AOC-1B-AAS03(3)-1 7/26/2013 SB73888	AOC-1B-EB00 6 - 6 ft AOC-1B-EB00(6)-1 7/26/2013 SB73888
PCBs (mg/kg)																		
Aroclor 1248	NE	NE	NE	**0.244**	**0.165**	**1.18**	**0.167**	**0.809**	**28.4**	**0.676**	< 0.0207	**0.4**	< 0.216	< 0.0215	< 0.0212	**2.61**	< 0.0219
Aroclor 1260	NE	NE	NE	< 0.0212	< 0.0216	**0.0506**	< 0.0208	**0.0285**	**0.427**	< 0.0210	< 0.0207	< 0.0213	< 0.0216	< 0.0215	< 0.0212	**0.112**	< 0.0219
Total PCB Aroclors	>50	**1**	**10**	**0.244**	**0.165**	**1.2306**	**0.167**	**0.8375**	**28.827**	**0.676**	ND	**0.4**	ND	ND	ND	**2.722**	ND

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GA/GAA PMC = Pollutant Mobility Criteria
NE = Criteriion has not been established
NS = Not Sampled for Specific Analyte
ug/kg = microgram per kilogram
NS = Not sampled for this constituent..
mg/kg = miligram per kilogram

AECOM

Table 6-2
Soil Analytical Data
AOC-1b

Greenwich High School
10 Hillside Road
Greenwich, Connecticut

Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	PCB Remediation Waste Threshold	2013-RES DEC	2013-I/C DEC	AOC-1B-EBN01 6 - 6 ft AOC-1B-EBN01(6)-1 7/26/2013 SB73888	AOC-1B-EBN02† 4 - 4 ft AOC-1B-EBN02(4)-1 7/26/2013 SB73888	AOC-1B-EBS01 6 - 6 ft AOC-1B-EBS01(6)-1 7/26/2013 SB73888	AOC-1B-EBS02 5 - 5 ft AOC-1B-EBS02(5)-1 7/26/2013 SB73888	AOC-1B-EC00 5 - 5 ft AOC-1B-EC00(5)-1 7/26/2013 SB73888	AOC-1B-ECN01 7 - 7 ft AOC-1B-ECN01(4)-1 7/26/2013 SB73888	AOC-1B-ECS01 4 - 4 ft AOC-1B-ECS01(4)-1 7/26/2013 SB73888	AOC-1B-WB00 6 - 6 ft AOC-1B-WB00(6)-1 7/26/2013 SB73888	AOC-1B-WBN01 6 - 6 ft AOC-1B-WBN01(6)-1 7/26/2013 SB73888	AOC-1B-WBN02† 3.5 - 3.5 ft AOC-1B-WBN02(3.5) 7/26/2013 SB73888	AOC-1B-WBS01 6 - 6 ft AOC-1B-WBS01(6)-1 7/26/2013 SB73888	AOC-1B-WBS02† 5 - 5 ft AOC-1B-WBS02(5)-1 7/26/2013 SB73888	AOC-1B-WC00 6 - 6 ft AOC-1B-WC00(6)-1 7/26/2013 SB73888	AOC-1B-WCN01 6 - 6 ft AOC-1B-WCN01(6)-1 7/26/2013 SB73888
PCBs (mg/kg)																		
Aroclor 1248	NE	NE	NE	**0.447**	**16.5**	< 0.0212	**0.915**	**0.926**	< 0.0213	**5.02**	**0.18**	**0.46**	**10**	**0.356**	**15.7**	**0.13**	**0.412**
Aroclor 1260	NE	NE	NE	< 0.0216	**0.441**	< 0.0212	**0.0287**	**0.0263**	< 0.0213	**0.2**	< 0.0201	< 0.0223	**0.264**	< 0.0204	< 0.45	< 0.0217	< 0.0208
Total PCB Aroclors	>50	**1**	**10**	**0.447**	**16.941**	ND	**0.9437**	**0.9523**	ND	**5.22**	**0.18**	**0.46**	**10.264**	**0.356**	**15.7**	**0.13**	**0.412**

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Blue highlighted cells exceed RES DEC.
Green highlighted cells exceed IC DEC.
<0.01 = Not detected above the specified laboratory reporting limit
DEC = Direct Exposure Criteria .
GA/GAA PMC = Pollutant Mobility Criteria
NE = Criteriion has not been established
NS = Not Sampled for Specific Analyte
ug/kg = microgram per kilogram
NS = Not sampled for this constituent..
mg/kg = miligram per kilogram

Table 6-2
Soil Analytical Data
AOC-1b

Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	PCB Remediation Waste Threshold	2013-RES DEC	2013-I/C DEC	AOC-1B-WCS01† 6 - 6 ft AOC-1B-WCS01(6)-1 7/26/2013 SB73888	AOC-1B-WD00 5 - 5 ft AOC-1B-WD00(5)-1 7/26/2013 SB73888	AOC-IB-4-SS1 2 - 4 ft AOC-IB-4-SS1-1 8/19/2013 SB75255	AOC-IB-4-SS2 2 - 4 ft AOC-IB-4-SS2-1 8/19/2013 SB75255	AOC-IB-4-SS3 2 - 4 ft AOC-IB-4-SS3-1 8/19/2013 SB75255
PCBs (mg/kg)								
Aroclor 1248	NE	NE	NE	**9.81**	**4.67**	**1.68**	**1.1**	< 0.0214
Aroclor 1260	NE	NE	NE	**0.427**	**0.178**	**0.0286**	**0.0443**	< 0.0214
Total PCB Aroclors	>50	**1**	**10**	**10.237**	**4.848**	**1.7086**	**1.1443**	ND

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Red highlighted cells exceed PCB Remediation Waste Threshold.
Blue highlighted cells exceed RES DEC.
Green highlighted cells exceed IC DEC.
<0.01 = Not detected above the specified laboratory reporting limit
DEC = Direct Exposure Criteria .
GA/GAA PMC = Pollutant Mobility Criteria
NE = Criteriion has not been established
NS = Not Sampled for Specific Analyte
ug/kg = microgram per kilogram
NS = Not sampled for this constituent..
mg/kg = miligram per kilogram

AECOM

Table 6-3
Soil Analytical Data
AOC-2a

Greenwich High School
10 Hillside Road
Greenwich, Connecticut

Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	PCB Remediation Waste Threshold	2013-RES DEC	2013-I/C DEC	AOC-2A-2-AA01 0 - 2 ft AOC-2A-2-AA00-1 8/14/2013 SB74978	AOC-2A-2-AAN01 0 - 2 ft AOC-2A-2-AAN01-1 8/14/2013 SB74978	AOC-2A-2-AAS01 0 - 2 ft AOC-2A-2-AAS01-1 8/14/2013 SB74978	AOC-2A-2-EB00 0 - 2 ft AOC-2A-2-EB00-1 8/14/2013 SB74978	AOC-2A-2-EBN01 0 - 2 ft AOC-2A-2-EBN01-1 8/14/2013 SB74978	AOC-2A-2-WB00 0 - 2 ft AOC-2A-2-WB00 8/14/2013 SB74978	AOC-2A-2-WBS01 0 - 2 ft AOC-2A-2-WBS01-1 8/14/2013 SB74978	AOC-2A-AA00 5 - 5 ft AOC-2A-AA00(5)-1 8/6/2013 SB74437	AOC-2A-AAN01† 5 - 5 ft AOC-2A-AAN01(5)-1 8/6/2013 SB74437	AOC-2A-AAN02† 5 - 5 ft AOC-2A-AAN02(5)-1 8/6/2013 SB74437	AOC-2A-AAS01 5 - 5 ft AOC-2A-AAS01(5)-1 8/6/2013 SB74437	AOC-2A-AAS02 5 - 5 ft AOC-2A-AAS02(5)-1 8/6/2013 SB74437	AOC-2A-EB00 4 - 4 ft AOC-2A-EB00(4)-1 8/6/2013 SB74437	AOC-2A-EBN01 5 - 5 ft AOC-2A-EBN01(5)-1 8/6/2013 SB74437
PCBs (mg/kg)																		
Aroclor 1248	NE	NE	NE	**0.0457**	**0.116**	**0.207**	< 0.211	< 0.0213	**1.38**	**1.15**	**1.18**	**34.7**	**9.86**	**1.41**	**0.598**	**0.26**	**2.52**
Aroclor 1260	NE	NE	NE	< 0.0208	< 0.0200	< 0.0208	< 0.0211	< 0.0213	**0.0258**	**0.0340**	**0.0572**	**0.682**	**0.29**	**0.0411**	< 0.0227	< 0.0210	**0.105**
Total PCB Aroclors	>50	**1**	**10**	**0.0457**	**0.116**	**0.207**	ND	ND	**1.4058**	**1.184**	**1.2372**	**35.382**	**10.15**	**1.4511**	**0.598**	**0.26**	**2.625**

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Green highlighted cells exceed IC DEC.
<0.01 = Not detected above the specified laboratory reporting limit
DEC = Direct Exposure Criteria .
GA/GAA PMC = Pollutant Mobility Criteria
NE = Criteriion has not been established
NS = Not Sampled for Specific Analyte
ug/kg = microgram per kilogram
NS = Not sampled for this constituent..
mg/kg = miligram per kilogram

Table 6-3
Soil Analytical Data
AOC-2a

Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	PCB Remediation Waste Threshold	2013-RES DEC	2013-I/C DEC	AOC-2A-EBN02 4 - 4 ft AOC-2A-EBN02(4)-1 8/6/2013 SB74437	AOC-2A-EBS01 3 - 3 ft AOC-2A-EBS01(3)-1 8/6/2013 SB74437	AOC-2A-WB00 5 - 5 ft AOC-2A-WB00(5)-1 8/6/2013 SB74437	AOC-2A-WBS01 5 - 5 ft AOC-2A-WBS01(5)-1 8/6/2013 SB74437	AOC-2A-WBS02 5 - 5 ft AOC-2A-WBS02(5)-1 8/6/2013 SB74437
PCBs (mg/kg)								
Aroclor 1248	NE	NE	NE	**2.89**	< 0.0207	< 0.212	< 0.216	< 0.21
Aroclor 1260	NE	NE	NE	**0.0885**	< 0.0207	< 0.0212	< 0.0216	< 0.0210
Total PCB Aroclors	>50	**1**	**10**	**2.9785**	ND	ND	ND	ND

Notes:
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Red highlighted cells exceed PCB Remediation Waste Threshold.
Blue highlighted cells exceed RES DEC.
Green highlighted cells exceed IC DEC.
<0.01 = Not detected above the specified laboratory reporting limit
DEC = Direct Exposure Criteria .
GA/GAA PMC = Pollutant Mobility Criteria
NE = Criteriion has not been established
NS = Not Sampled for Specific Analyte
ug/kg = microgram per kilogram
NS = Not sampled for this constituent..
mg/kg = miligram per kilogram

AECOM

Table 6-4
Soil Analytical Data
AOC-2b

Greenwich High School
10 Hillside Road
Greenwich, Connecticut

Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	PCB Remediation Wastes Threshold	2013-GA/GAA PMC	2013-RES DEC	2013-I/C DEC	AOC-2B-AA00 6 - 6 ft AOC-2B-AA00(6)-1 8/12/2013 SB74821	AOC-2B-AAN01 6 - 6 ft AOC-2B-AAN01(6)-1 8/12/2013 SB74821	AOC-2B-AAS01 6 - 6 ft AOC-2B-AAS01(6)-1 8/12/2013 SB74821	AOC-2B-EB00 6 - 6 ft AOC-2B-EB00(6)-1 8/12/2013 SB74821	AOC-2B-EBS01 5.5 - 5.5 ft AOC-2B-EBS01(5.5)- 8/12/2013 SB74821	AOC-2B-EC00 6 - 6 ft AOC-2B-EC00(6)-1 8/12/2013 SB74821	AOC-2B-ECS01 3 - 3 ft AOC-2B-ECS01(3)-1 8/12/2013 SB74821	AOC-2B-WB00 6 - 6 ft AOC-2B-WB00(6)-1 8/12/2013 SB74821	AOC-2B-WBN01 6 - 6 ft AOC-2B-WBN01(6)- 8/12/2013 SB74821	AOC-2B-WC00 7 - 7 ft AOC-2B-WC00(7)-1 8/12/2013 SB74821	AOC-2B-WCN01 4 - 4 ft AOC-2B-WCN01(4)- 8/12/2013 SB74821	AOC-2-BOT 6 - 6 ft AOC-2-BOT-1 8/12/2013 SB74823	AOC-2-ESW 3 - 3 ft AOC-2-ESW-1 8/12/2013 SB74823	AOC-2-NSW 3 - 3 ft AOC-2-NSW-1 8/12/2013 SB74823
Metals (mg/kg)																	
Lead	NE	NE	**500**	**1000**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**121**	**73.9**	**291**
Metals-SPLP (mg/L)																	
Lead	NE	**0.015**	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.0311**	**0.0300**	**0.0290**
PCBs (mg/kg)																	
Aroclor 1248	NE	NE	NE	NE	**2.94**	**1.45**	**3.43**	**0.0637**	**0.0785**	**0.0662**	**0.0823**	**0.822**	**0.0827**	**0.671**	**1.12**	NA	NA	NA
Aroclor 1260	NE	NE	NE	NE	**0.1**	**0.0494**	**0.0899**	< 0.0220	< 0.0207	< 0.0221	< 0.0201	**0.0239**	< 0.0212	**0.0210**	**0.0499**	NA	NA	NA
Total PCB Aroclors	>50	NA	**1**	**10**	**3.04**	**1.4994**	**3.5199**	**0.0637**	**0.0785**	**0.0662**	**0.0823**	**0.8459**	**0.0827**	**0.692**	**1.1699**	NA	NA	NA

Notes:
This is a summary table. Only detected compounds are presented.
† - soil sample which exceeded remeidal goal and was over excavated.
Bold = Detected above reporting limit
Yellow highlighted cells exceed GA/GAA PMC.
Blue highlighted cells exceed RES DEC.
Green highlighted cells exceed IC DEC.
Red highlighted cells exceed PCB Remediation Waste Threshold.
<0.01 = Not detected above the specified laboratory reporting limit
DEC = Direct Exposure Criteria .
GA/GAA PMC = Pollutant Mobility Criteria
NE = Criteriion has not been established
NS = Not Sampled for Specific Analyte
ug/kg = microgram per kilogram
NS = Not sampled for this constituent..
mg/kg = miligram per kilogram

Table 6-4
Soil Analytical Data
AOC-2b

Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	PCB Remediation Wastes Threshold	2013-GA/GAA PMC	2013-RES DEC	2013-I/C DEC	AOC-2-SSW 3 - 3 ft AOC-2-SSW-1 8/12/2013 SB74823	AOC-2-WSW 3 - 3 ft AOC-2-WSW-1 8/12/2013 SB74823
Metals (mg/kg)						
Lead	NE	NE	**500**	**1000**	**381**	**28.4**
Metals-SPLP (mg/L)						
Lead	NE	**0.015**	NE	NE	< 0.0150	< 0.0150
PCBs (mg/kg)						
Aroclor 1248	NE	NE	NE	NE	NA	NA
Aroclor 1260	NE	NE	NE	NE	NA	NA
Total PCB Aroclors	>50	NA	**1**	**10**	NA	NA

Notes:
This is a summary table. Only detected compounds are presented.
† - soil sample which exceeded remeidal goal and was over excavated.
Bold = Detected above reporting limit
Yellow highlighted cells exceed GA/GAA PMC.
Blue highlighted cells exceed RES DEC.
Green highlighted cells exceed IC DEC.
Red highlighted cells exceed PCB Remediation Waste Threshold.
<0.01 = Not detected above the specified laboratory reporting limit
DEC = Direct Exposure Criteria .
GA/GAA PMC = Pollutant Mobility Criteria
NE = Criteriion has not been established
NS = Not Sampled for Specific Analyte
ug/kg = microgram per kilogram
NS = Not sampled for this constituent..
mg/kg = miligram per kilogram

AECOM

Table 6-5
Soil Analytical Data
AOC-2c

Greenwich High School
10 Hillside Road
Greenwich, Connecticut

Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	PCB Remediation Wastes Threshold	2013-RES DEC	2013-I/C DEC	AOC-2C-2-SS1 0 - 2 ft AOC-2C-2-SS1-1 8/19/2013 SB75252	AOC-2C-2-SS2 0 - 2 ft AOC-2C-2-SS2-1 8/19/2013 SB75252	AOC-2C-2-SS3 0 - 2 ft AOC-2C-2-SS3-1 8/19/2013 SB75252	AOC-2C-AA00 8 - 8 ft AOC-2C-AA00(8)-1 8/12/2013 SB74822	AOC-2C-AAN01 8 - 8 ft AOC-2C-AAN01(8)-1 8/12/2013 SB74822	AOC-2C-AAN02 8 - 8 ft AOC-2C-AAN02(8)-1 8/12/2013 SB74822	AOC-2C-AAN03 7 - 7 ft AOC-2C-AAN03(7)-1 8/12/2013 SB74822	AOC-2C-AAS01 8 - 8 ft AOC-2C-AAS01(8)-1 8/12/2013 SB74822	AOC-2C-AAS02 8 - 8 ft AOC-2C-AAS02(8)-1 8/12/2013 SB74822	AOC-2C-AAS03 4 - 4 ft AOC-2C-AAS03(4)-1 8/12/2013 SB74822	AOC-2C-EB00 8 - 8 ft AOC-2C-EB00(8)-1 8/12/2013 SB74822	AOC-2C-EBN01 8 - 8 ft AOC-2C-EBN01(8)-1 8/12/2013 SB74822	AOC-2C-EBN02 8 - 8 ft AOC-2C-EBN02(8)-1 8/12/2013 SB74822	AOC-2C-EBN03 4 - 4 ft AOC-2C-EBN03(4)-1 8/12/2013 SB74822	AOC-2C-EBS01 8 - 8 ft AOC-2C-EBS01(8)-1 8/13/2013 SB74887
PCBs (mg/kg)																		
Aroclor 1248	NE	NE	NE	< 0.0215	< 0.0215	< 0.0231	**0.0652**	**0.282**	**0.66**	**2.83**	**3.04**	**1.42**	**1.87**	**11.1**	**1.04**	**0.696**	**2.24**	**0.354**
Aroclor 1254	NE	NE	NE	< 0.0215	**0.0420**	< 0.0231	< 0.0214	< 0.0210	< 0.0215	< 0.0224	< 0.0210	< 0.0218	< 0.0225	< 0.214	< 0.0203	< 0.0216	< 0.0212	< 0.0205
Aroclor 1260	NE	NE	NE	< 0.0215	< 0.0215	< 0.0231	< 0.0214	< 0.0210	< 0.0215	**0.0941**	**0.0682**	**0.0294**	**0.0707**	< 0.214	**0.0334**	< 0.0216	**0.129**	< 0.0205
Total PCB Aroclors	>50	**1**	**10**	ND	**0.042**	ND	**0.0652**	**0.282**	**0.66**	**2.9241**	**3.1082**	**1.4494**	**1.9407**	**11.1**	**1.0734**	**0.696**	**2.369**	**0.354**

Notes:
This is a summary table. Only detected compounds are presented.
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Red highlighted cells exceed PCB Remediation Waste Threshold.
Blue highlighted cells exceed RES DEC.
Green highlighted cells exceed IC DEC.
<0.01 = Not detected above the specified laboratory reporting limit
DEC = Direct Exposure Criteria .
GA/GAA PMC = Pollutant Mobility Criteria
NE = Criteriion has not been established
NS = Not Sampled for Specific Analyte
ug/kg = microgram per kilogram
NS = Not sampled for this constituent..
mg/kg = miligram per kilogram

Table 6-5
Soil Analytical Data
AOC-2c

Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	PCB Remediation Wastes Threshold	2013-RES DEC	2013-I/C DEC	AOC-2C-EBS02 8 - 8 ft AOC-2C-EBS02(8)-1 8/13/2013 SB74887	AOC-2C-EBS03 4 - 4 ft AOC-2C-EBS03(4)-1 8/13/2013 SB74887	AOC-2C-WB00 8 - 8 ft AOC-2C-WB00(8)-1 8/12/2013 SB74822	AOC-2C-WBN01 8 - 8 ft AOC-2C-WBN01(8)-1 8/12/2013 SB74822	AOC-2C-WBN02 6 - 6 ft AOC-2C-WBN02(6)-1 8/12/2013 SB74822	AOC-2C-WBN03 3 - 3 ft AOC-2C-WBN03(3)-1 8/12/2013 SB74822	AOC-2C-WBS01 8 - 8 ft AOC-2C-WBS01(8)-1 8/12/2013 SB74822	AOC-2C-WBS02 4 - 4 ft AOC-2C-WBS02(4)-1 8/16/2013 SB75142	AOC-2C-WC00 3 - 3 ft AOC-2C-WC00(3)-1 8/12/2013 SB74822	AOC-2C-WCN01 3 - 3 ft AOC-2C-WCN01(3)-1 8/12/2013 SB74822	AOC-2C-WCS01 4 - 4 ft AOC-2C-WCS01(4)-1 8/12/2013 SB74822
PCBs (mg/kg)															
Aroclor 1248	NE	NE	NE	**2.5**	**1.12**	**8.56**	**4.07**	**4.75**	< 0.0966	**0.653**	**7.69**	< 0.103	< 0.103	**4.44**
Aroclor 1254	NE	NE	NE	< 0.0218	< 0.0208	< 0.215	< 0.0212	< 0.0221	< 0.0193	< 0.0213	< 0.212	< 0.0207	< 0.0206	< 0.0225
Aroclor 1260	NE	NE	NE	**0.0785**	**0.0748**	< 0.215	**0.0796**	**0.197**	< 0.0193	**0.0259**	< 0.212	< 0.0207	< 0.0206	**0.156**
Total PCB Aroclors	>50	**1**	**10**	**2.5785**	**1.1948**	**8.56**	**4.1496**	**4.947**	ND	**0.653**	**7.69**	ND	ND	**4.596**

Notes:
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Red highlighted cells exceed PCB Remediation Waste Threshold.
Blue highlighted cells exceed RES DEC.
Green highlighted cells exceed IC DEC.
<0.01 = Not detected above the specified laboratory reporting limit
DEC = Direct Exposure Criteria .
GA/GAA PMC = Pollutant Mobility Criteria
NE = Criteriion has not been established
NS = Not Sampled for Specific Analyte
ug/kg = microgram per kilogram
NS = Not sampled for this constituent..
mg/kg = miligram per kilogram

Table 6-6
Soil Analytical Data
AOC-3

Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	2013-GA/GAA PMC	2013-RES DEC	2013-I/C DEC	AOC-3-2-BOT 1 - 1 ft AOC-3-2-BOT-1 8/14/2013 SB74979	AOC-3-BOT1 8 - 8 ft AOC-3-BOT1(8)-1 8/7/2013 SB74515	AOC-3-BOT2 8 - 8 ft AOC-3-BOT2(8)-1 8/7/2013 SB74515	AOC-3-ESW1 4 - 4 ft AOC-3-ESW1(4)-1 8/7/2013 SB74515	AOC-3-ESW2 4 - 4 ft AOC-3-ESW2(4)-1 8/7/2013 SB74515	AOC-3-NSW1 4 - 4 ft AOC-3-NSW1(4)-1 8/7/2013 SB74515	AOC-3-NSW2 4 - 4 ft AOC-3-NSW2(4)-1 8/7/2013 SB74515	AOC-3-SSW1 4 - 4 ft AOC-3-SSW1(4)-1 8/7/2013 SB74515	AOC-3-SSW2 4 - 4 ft AOC-3-SSW2(4)-1 8/7/2013 SB74515	AOC-3-WSW1 4 - 4 ft AOC-3-WSW1(4)-1 8/7/2013 SB74515	AOC-3-WSW2 4 - 4 ft AOC-3-WSW2(4)-1 8/7/2013 SB74515
ETPH (mg/kg)														
Aliphatic Hydrocarbons (ETP	500	500	2500	NA	**322**	**420**	**66.3**	**99.3**	< 29.7	**69.1**	< 27.8	**66.3**	**88.7**	**147**
Total Petroleum Hydrocarbo	500	500	2500	NA	**322**	**420**	**66.3**	**99.3**	< 29.7	**69.1**	< 27.8	**66.3**	**88.7**	**147**
Unidentified	NE	NE	NE	NA	**322**	**420**	**66.3**	**99.3**	< 29.7	**69.1**	< 27.8	**66.3**	**88.7**	**147**
Metals (mg/kg)														
Lead	NE	**500**	**1000**	**12.6**	**76.9**	**4100**	**286**	**168**	**104**	**65.6**	**26.6**	**155**	**44.5**	**457**
Metals-SPLP (mg/L)														
Lead	**0.015**	NE	NE	< 0.0150	< 0.0150	< 0.0150	**0.0873**	**0.0244**	**0.0234**	< 0.0150	< 0.0150	**0.0190**	< 0.0150	**0.0496**
PCBs (mg/kg)														
Aroclor 1248	NE	NE	NE	NA	**0.46**	**0.911**	**1.74**	**1.5**	< 0.22	**0.424**	**0.0506**	**0.564**	**0.787**	**3.41**
Aroclor 1260	NE	NE	NE	NA	< 0.0220	**0.0399**	**0.0637**	**0.0723**	< 0.0220	< 0.0208	< 0.0215	**0.0254**	< 0.0212	**0.144**
Total PCB Aroclors	NA	**1**	10	NA	**0.46**	**0.9509**	**1.8037**	**1.5723**	ND	**0.424**	**0.0506**	**0.5894**	**0.787**	**3.554**

Notes:
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Yellow highlighted cells exceed GA/GAA PMC.
Blue highlighted cells exceed RES DEC.
Green highlighted cells exceed IC DEC.
<0.01 = Not detected above the specified laboratory reporting limit
DEC = Direct Exposure Criteria .
GA/GAA PMC = Pollutant Mobility Criteria
NE = Criteriion has not been established
NS = Not Sampled for Specific Analyte
ug/kg = microgram per kilogram
NS = Not sampled for this constituent..
mg/kg = miligram per kilogram

Table 6-7
Soil Analytical Data
AOC-4

Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	2013-GA/GAA PMC	2013-RES DEC	2013-I/C DEC	AOC-4-BOT 6 - 6 ft AOC-4-BOT (6)-1 8/13/2013 SB74884	AOC-4-ESW 4 - 4 ft AOC-4-ESW(4)-1 8/13/2013 SB74884	AOC-4-NSW 4 - 4 ft AOC-4-NSW(4)-1 8/13/2013 SB74884	AOC-4-SSW 4 - 4 ft AOC-4-SSW(4)-1 8/13/2013 SB74884	AOC-4-WSW 4 - 4 ft AOC-4-WSW(4)-1 8/13/2013 SB74884
ETPH (mg/kg)								
Aliphatic Hydrocarbons (ETP	500	500	2500	**102**	**83.4**	**480**	**79.4**	**477**
Total Petroleum Hydrocarbo	500	500	2500	**102**	**83.4**	**480**	**79.4**	**477**
Unidentified	NE	NE	NE	**102**	**83.4**	**480**	**79.4**	**477**
PCBs (ug/kg)								
Aroclor 1248	NE	NE	NE	**3**	**0.1**	< 0.11	**0.846**	**1.4**
Aroclor 1254	NE	NE	NE	< 0.0208	< 0.0204	< 0.11	**0.608**	**1.03**
Aroclor 1260	NE	NE	NE	**0.0883**	< 0.0204	**1.23**	**0.488**	**1.67**
Total PCB Aroclors	NA	**1**	10	**3.0883**	**0.1**	**1.23**	**1.942**	**4.1**

Notes:
This is a summary table. Only detected compounds are presented.
† - soil sample which exceeded remedial goal and was over excavated.
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Yellow highlighted cells exceed GA/GAA PMC.
Blue highlighted cells exceed RES DEC.
Green highlighted cells exceed IC DEC.
<0.01 = Not detected above the specified laboratory reporting limit
DEC = Direct Exposure Criteria .
GA/GAA PMC = Pollutant Mobility Criteria
NE = Criteriion has not been established
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ug/kg = microgram per kilogram
NS = Not sampled for this constituent..
mg/kg = miligram per kilogram

AECOM

Table 6-8
Soil Analytical Data
AOC-6

Greenwich High School
10 Hillside Road
Greenwich, Connecticut

Location ID Depth Interval (ft bgs) Sample ID Sample Date SDG	2013-GA/GAA PMC	2013-RES DEC	2013-I/C DEC	AOC-6-2-BOT1 5 - 5 ft AOC-6-2-BOT1(5)-1 8/16/2013 SB75141	AOC-6-2-BOT2 5 - 5 ft AOC-6-2-BOT2(5)-1 8/16/2013 SB75141	AOC-6-2-ESW1 4 - 4 ft AOC-6-2-ESW1(4)-1 8/16/2013 SB75141	AOC-6-2-ESW2 4 - 4 ft AOC-6-2-ESW2(4)-1 8/16/2013 SB75141	AOC-6-2-NSW1 4 - 4 ft AOC-6-2-NSW1(4)-1 8/16/2013 SB75141	AOC-6-2-NSW2 4 - 4 ft AOC-6-2-NSW2(4)-1 8/16/2013 SB75141	AOC-6-2-SSW1 4 - 4 ft AOC-6-2-SSW1(4)-1 8/16/2013 SB75141	AOC-6-2-SSW2 4 - 4 ft AOC-6-2-SSW2(4)-1 8/16/2013 SB75141	AOC-6-2-WSW1 4 - 4 ft AOC-6-2-WSW1(4)-1 8/16/2013 SB75141	AOC-6-2-WSW2 4 - 4 ft AOC-6-2-WSW2(4)-1 8/16/2013 SB75141	AOC-6-BOT† 4 - 4 ft AOC-6-BOT(4)-1 8/6/2013 SB74436	AOC-6-ESW† 2 - 2 ft AOC-6-ESW(2)-1 8/6/2013 SB74436	AOC-6-NSW† 2 - 2 ft AOC-6-NSW(2)-1 8/6/2013 SB74436	AOC-6-SSW† 2 - 2 ft AOC-6-SSW(2)-1 8/6/2013 SB74436	AOC-6-WSW† 2 - 2 ft AOC-6-WSW(2)-1 8/6/2013 SB74436
PAHs (ug/kg)																		
1-Methylnaphthalene	NE	21000	200000	< 174	< 172	< 180	< 184	**340**	< 195	< 174	< 195	< 370	< 187	< 897	< 1920	< 1760	< 3660	< 935
Acenaphthene	NE	1000000	2500000	< 174	< 172	< 180	< 184	**496**	< 195	< 174	< 195	< 370	< 187	< 897	**3500**	**2380**	< 3660	**1500**
Anthracene	40000	1000000	2500000	< 174	< 172	< 180	< 184	< 188	< 195	< 174	< 195	< 370	< 187	**1230**	**6910**	**4750**	< 3660	**1460**
Benzo(a)anthracene	**1000**	**1000**	**7800**	< 174	< 172	< 180	< 184	**199**	< 195	< 174	< 195	< 370	< 187	**1700**	**8330**	**5730**	< 3660	**1540**
Benzo(a)pyrene	**1000**	**1000**	**1000**	< 174	< 172	< 180	< 184	**202**	< 195	< 174	< 195	< 370	< 187	**1650**	**7340**	**4920**	< 3660	**1450**
Benzo(b)fluoranthene	**1000**	**1000**	7800	< 174	< 172	< 180	< 184	**195**	< 195	< 174	< 195	< 370	< 187	**1450**	**6950**	**4670**	< 3660	**1320**
Benzo(g,h,i)perylene	NE	8400	78000	< 174	< 172	< 180	< 184	< 188	< 195	< 174	< 195	< 370	< 187	< 897	**4120**	**1790**	< 3660	< 935
Benzo(k)fluoranthene	**1000**	8400	78000	< 174	< 172	< 180	< 184	< 188	< 195	< 174	< 195	< 370	< 187	**1210**	**5580**	**3780**	< 3660	**1220**
Chrysene	NE	84000	780000	< 174	< 172	< 180	< 184	**209**	< 195	< 174	< 195	< 370	< 187	**1630**	**7660**	**5210**	< 3660	**1460**
Fluoranthene	**5600**	1000000	2500000	< 174	< 172	< 180	< 184	**356**	**268**	< 174	< 195	< 370	**336**	**4380**	**19300**	**12800**	< 3660	**4360**
Fluorene	5600	1000000	2500000	< 174	< 172	< 180	< 184	< 188	< 195	< 174	< 195	< 370	< 187	< 897	**3820**	**3170**	< 3660	**1670**
Indeno(1,2,3-cd)pyrene	NE	**1000**	7800	< 174	< 172	< 180	< 184	< 188	< 195	< 174	< 195	< 370	< 187	< 897	**4390**	**2170**	< 3660	< 935
Naphthalene	5600	1000000	2500000	< 174	< 172	< 180	< 184	< 188	< 195	< 174	< 195	< 370	< 187	< 897	**2270**	< 1760	< 3660	< 935
Phenanthrene	**4000**	1000000	2500000	< 174	< 172	< 180	< 184	**276**	**203**	< 174	< 195	< 370	**221**	**4050**	**20200**	**14800**	< 3660	**6080**
Pyrene	**4000**	1000000	2500000	< 174	< 172	< 180	< 184	**301**	**198**	< 174	< 195	< 370	**262**	**3250**	**14500**	**10200**	< 3660	**3060**

Notes:
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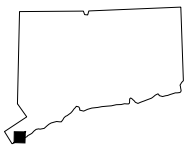
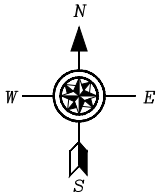
Yellow highlighted cells exceed GA/GAA PMC.
Blue highlighted cells exceed RES DEC.
Green highlighted cells exceed IC DEC.
<0.01 = Not detected above the specified laboratory reporting limit
DEC = Direct Exposure Criteria .
GA/GAA PMC = Pollutant Mobility Criteria
NE = Criteriion has not been established
NS = Not Sampled for Specific Analyte
ug/kg = microgram per kilogram
NS = Not sampled for this constituent..
mg/kg = miligram per kilogram

Figures



QUADRANGLE LOCATION



0 600 1500 3000

Scale in Feet

SOURCE: MAPCARD - USGS STAMFORD, CT QUAD. 1984
LAT 41.0399 LONG. -73.6127 ELEVATION = 63'

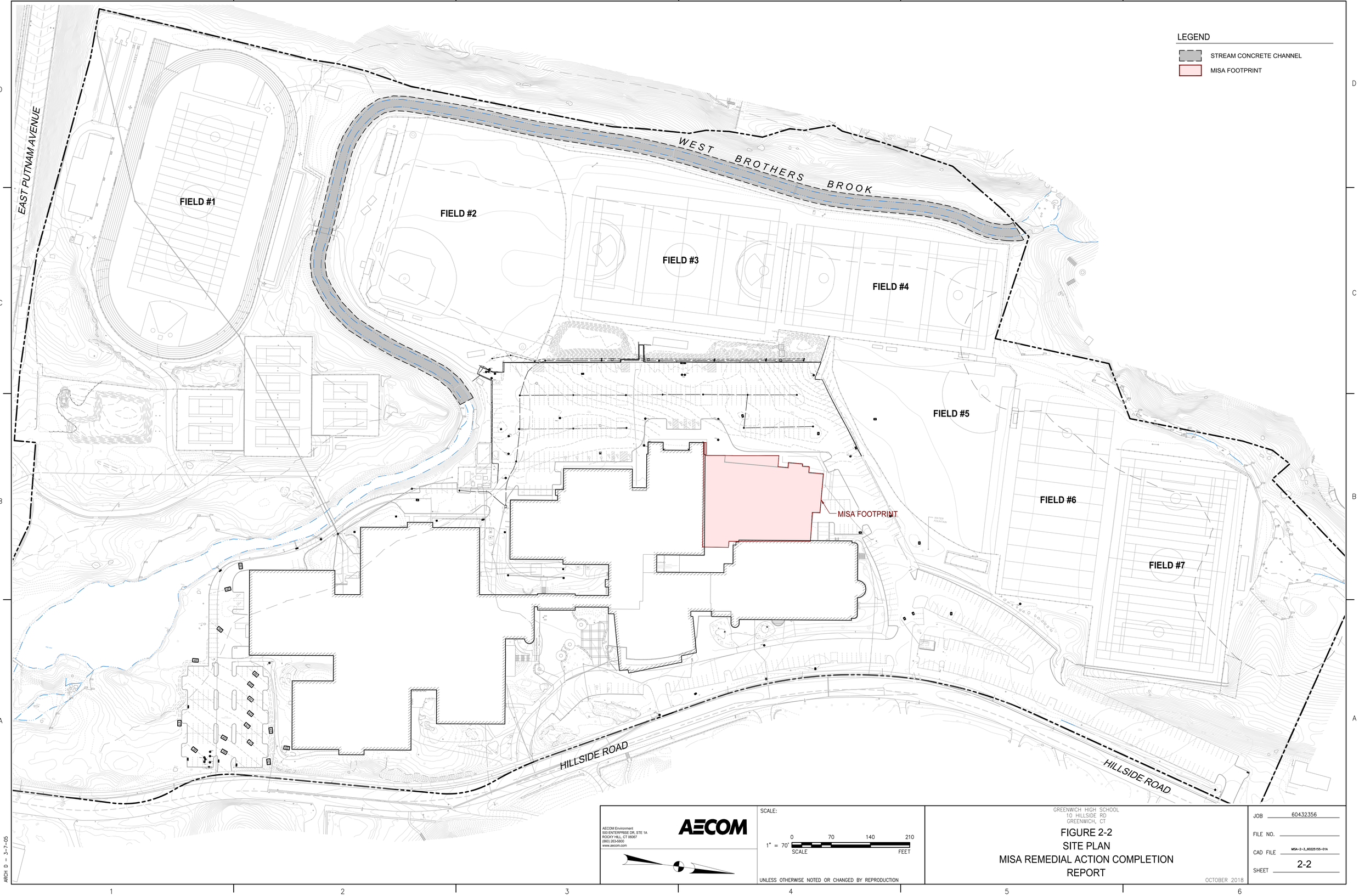
AECOM Environment
500 ENTERPRISE DRIVE, SUITE 1A
ROCKY HILL, CONNECTICUT 06067
T 860.263.5800 F 860.263.5777
www.aecom.com

FIGURE 2-1

SITE LOCATION

GREENWICH HIGH SCOOL
10 HILLSIDE ROAD, GREENWICH, CT

DATE:	PROJECT NUMBER:	FIG. No:
OCTOBER 2018	60432356	2-1



AECOM Environment
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AECOM

SCALE:

1" = 70'

0 70 140 210

SCALE FEET

GREENWICH HIGH SCHOOL
10 HILLSIDE RD
GREENWICH, CT

FIGURE 2-2
SITE PLAN
MISA REMEDIAL ACTION COMPLETION REPORT

OCTOBER 2018

JOB 60432356

FILE NO.

CAD FILE MISA-2-3_60225155-01A

SHEET 2-2

PATH/FILENAME: F:\60225155 GREENWICH HS\900-WORK\910-CAD\20-SHEETS\2018-MISA-COMPLETION-REPORT\REF-2018-MISA\ROCKY_HILL_FILES\MISA-2-3_60225155-01A.DWG
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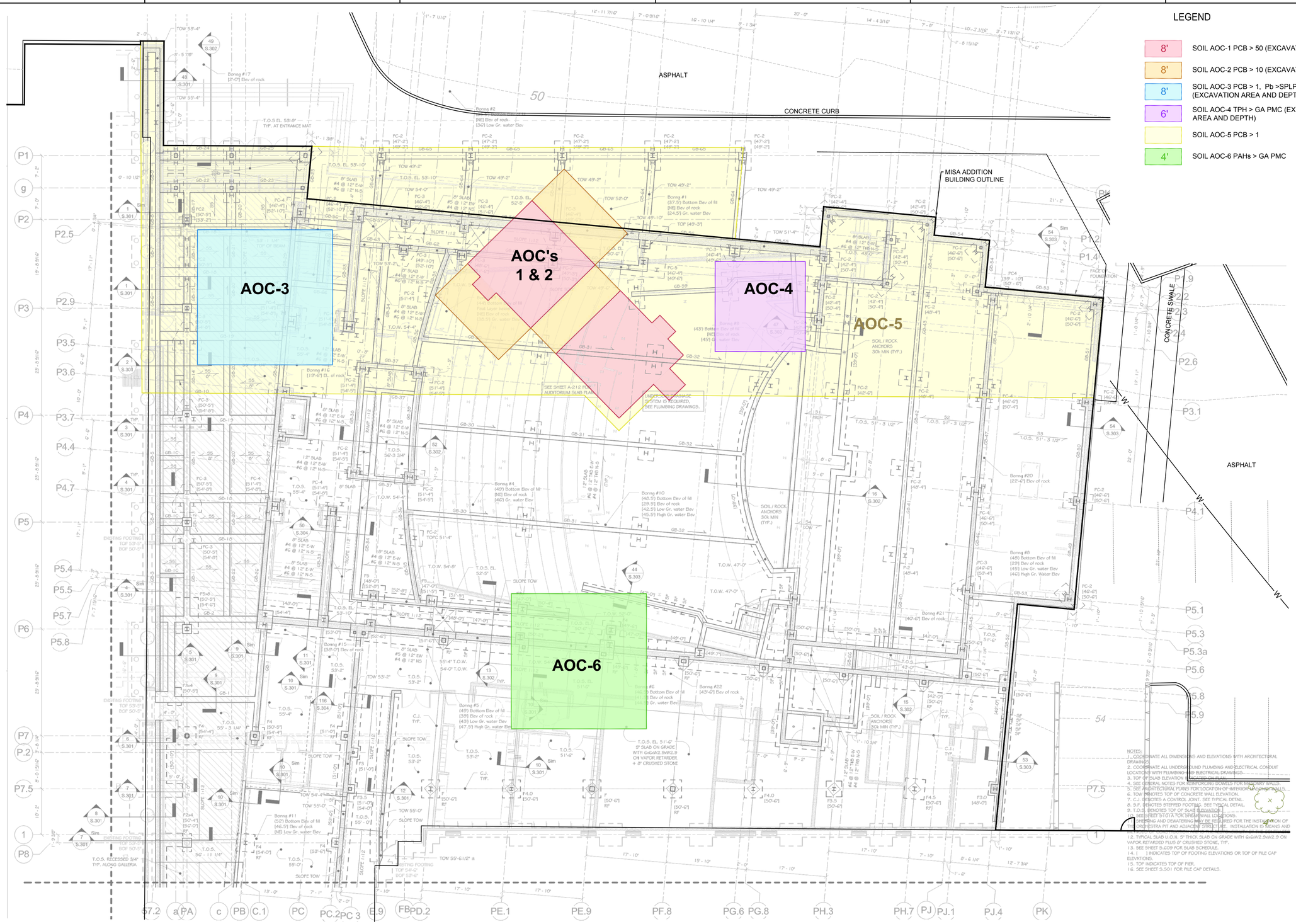
ARCH D - 3-7-05



PLAN

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SCALE:
1" = 10'
0 10 20 30
SCALE FEET

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GREENWICH HIGH SCHOOL
10 HILLSIDE RD
GREENWICH, CT

FIGURE 5-1
MISA FINAL EXCAVATION LIMITS

OCTOBER 2018

JOB 60432356
FILE NO.
CAD FILE 60225155-01D
SHEET 5-1

PATH/FILENAME: P:\60225155 GREENWICH HS\900-WORK\910-CAD\20-SHEETS\2018-MISA-COMPLETION-REPORT\60225155-010.DWG
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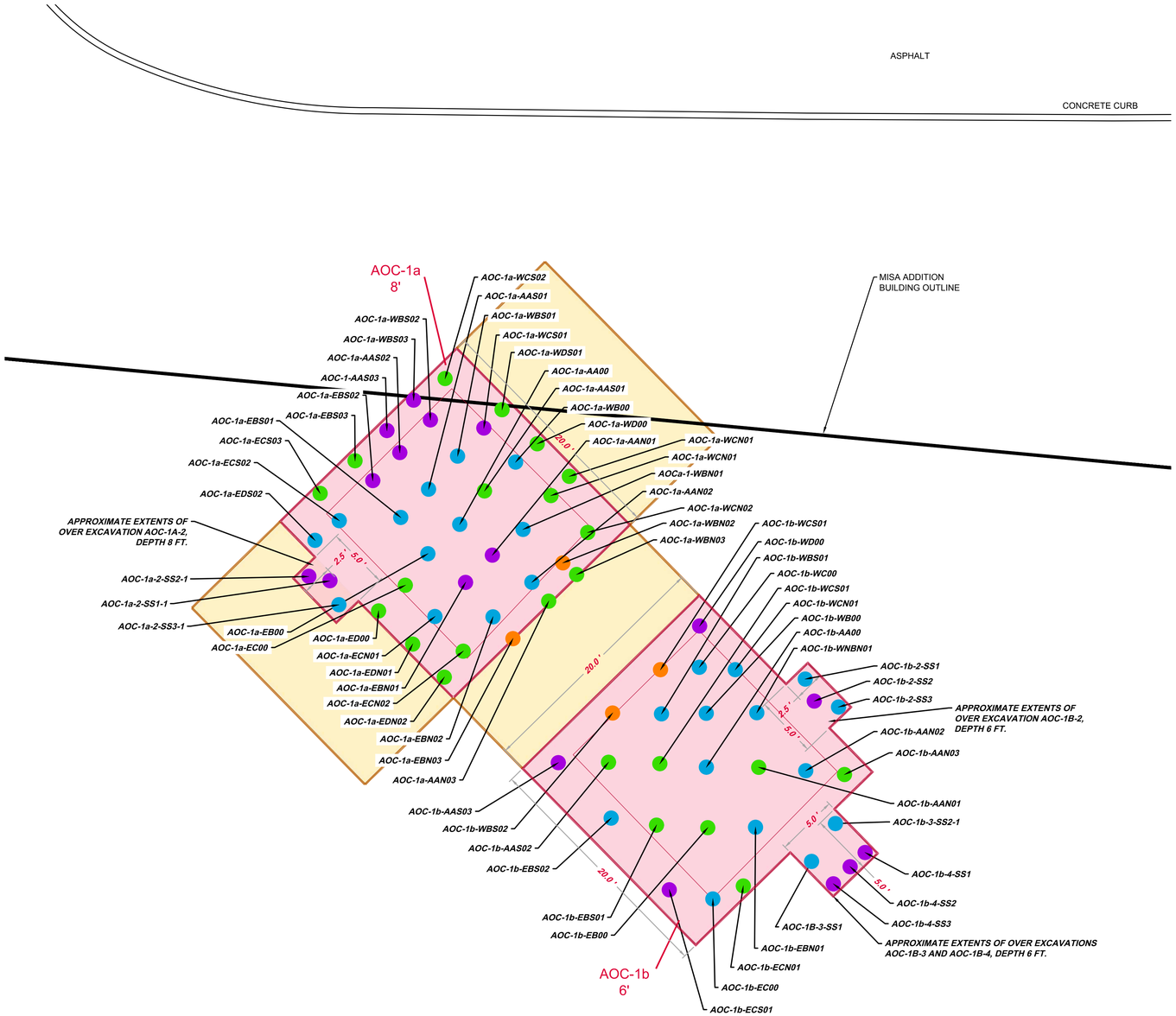
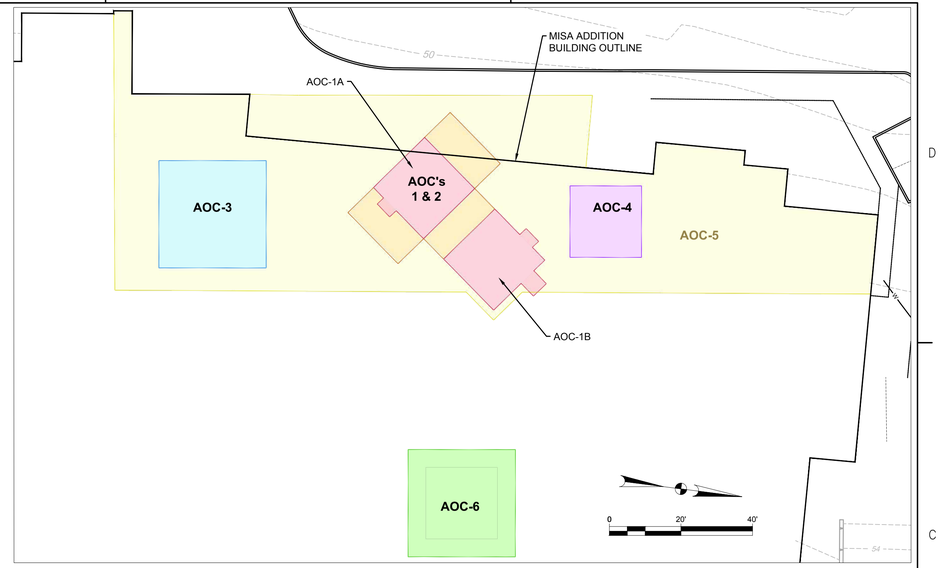


PLAN



KEY MAP

LEGEND

- 8' — SOIL AOC-1 PCB > 50 (EXCAVATION AREA AND DEPTH)
- 8' — SOIL AOC-2 PCB > 10 (EXCAVATION AREA AND DEPTH)

SAMPLE KEY

SAMPLE LOCATION -
(COLORS INDICATE THE MAXIMUM PCB CONCENTRATION IN SOIL)

- NOT DETECTED
- ≤ 1 mg/kg
- >1 - ≤ 10 mg/kg
- >10 - ≤ 50 mg/kg
- > 50 mg/kg

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SCALE: 0 5' 10'

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FIGURE 6-1
AOC-1 EXCAVATION LIMITS AND PCB SAMPLING LOCATIONS

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FILE NO.
CAD FILE 60225155-010
SHEET 6-1

PATH/FILENAME: P:\60225155 GREENWICH HS\900-WORK\910-CAD\00-SHEETS\2018-MISA-COMPLETION-REPORT\60225155-010.DWG
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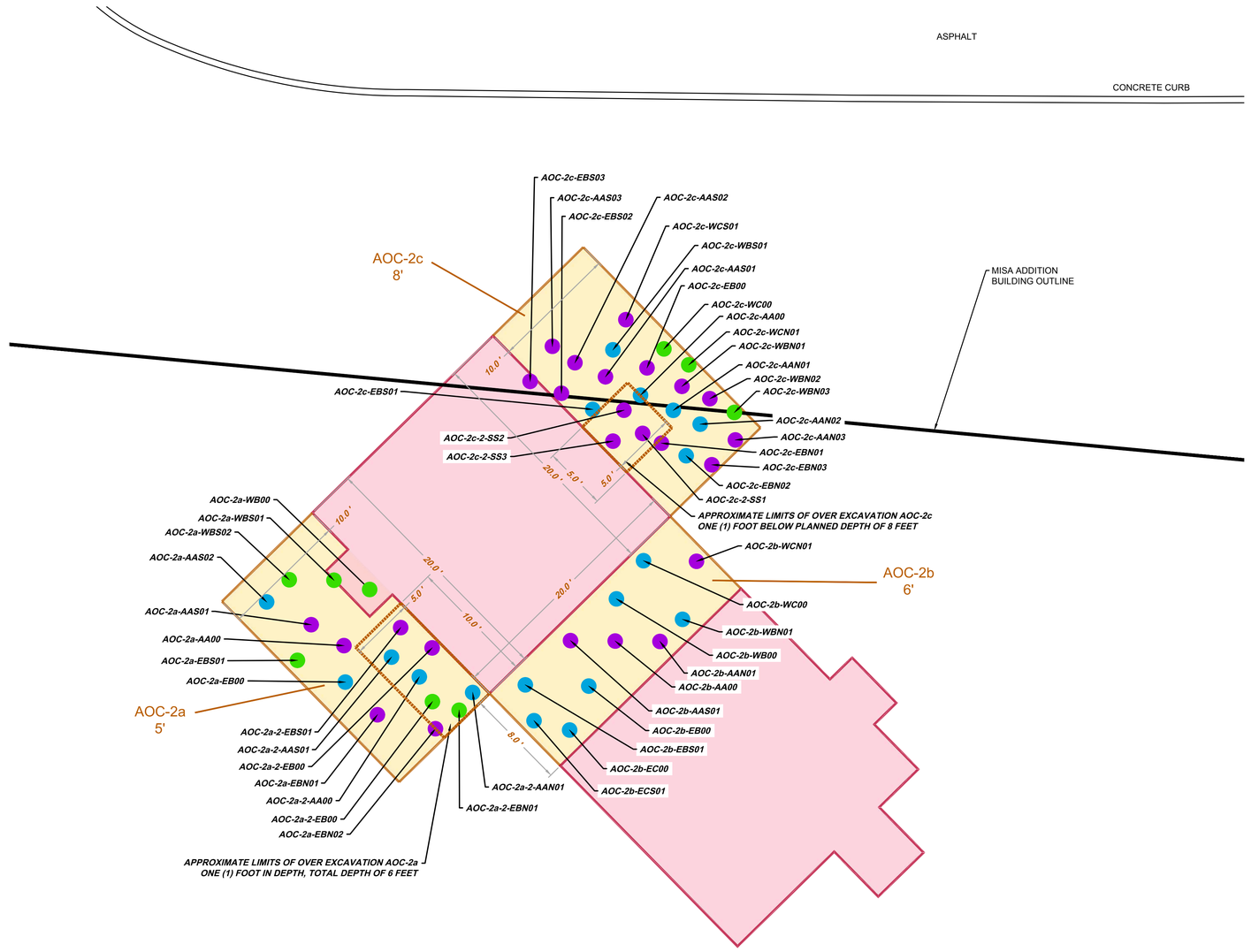
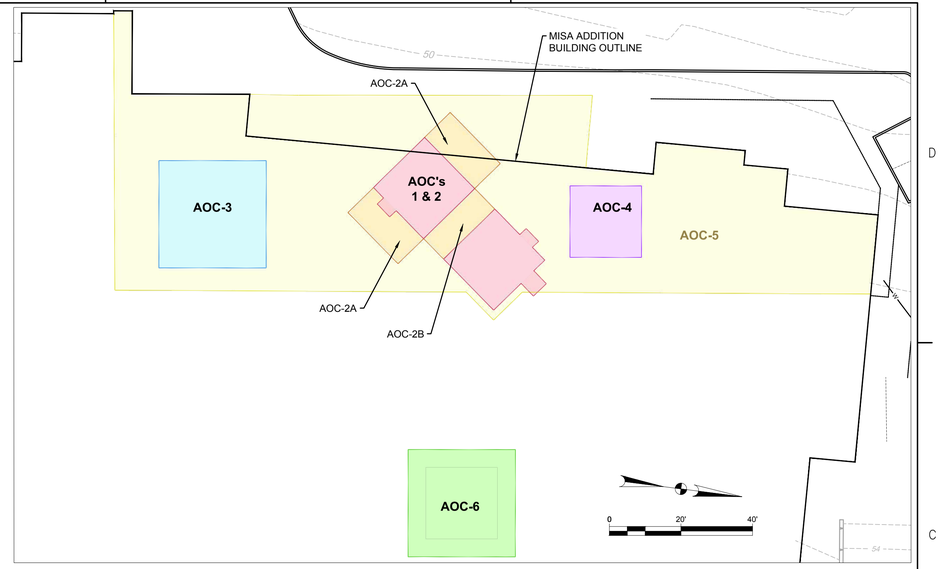


PLAN



KEY MAP

LEGEND

- 8' — SOIL AOC-1 PCB > 50 (EXCAVATION AREA AND DEPTH)
- 8' — SOIL AOC-2 PCB > 10 (EXCAVATION AREA AND DEPTH)

SAMPLE KEY

SAMPLE LOCATION -
(COLORS INDICATE THE MAXIMUM PCB CONCENTRATION IN SOIL)

- NOT DETECTED
- ≤ 1 mg/kg
- >1 - ≤ 10 mg/kg
- >10 - ≤ 50 mg/kg
- > 50 mg/kg

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SCALE: 0 5' 10'

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10 HILLSIDE RD
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FIGURE 6-2
AOC-2 EXCAVATION LIMITS AND PCB SAMPLING LOCATIONS

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JOB 60432356
FILE NO.
CAD FILE 60225155-010
SHEET 6-2

PATH/FILENAME: P:\60225155 GREENWICH HS\900-WORK\910-CAD\20-SHEETS\2018-MISA-COMPLETION-REPORT\60225155-010.DWG
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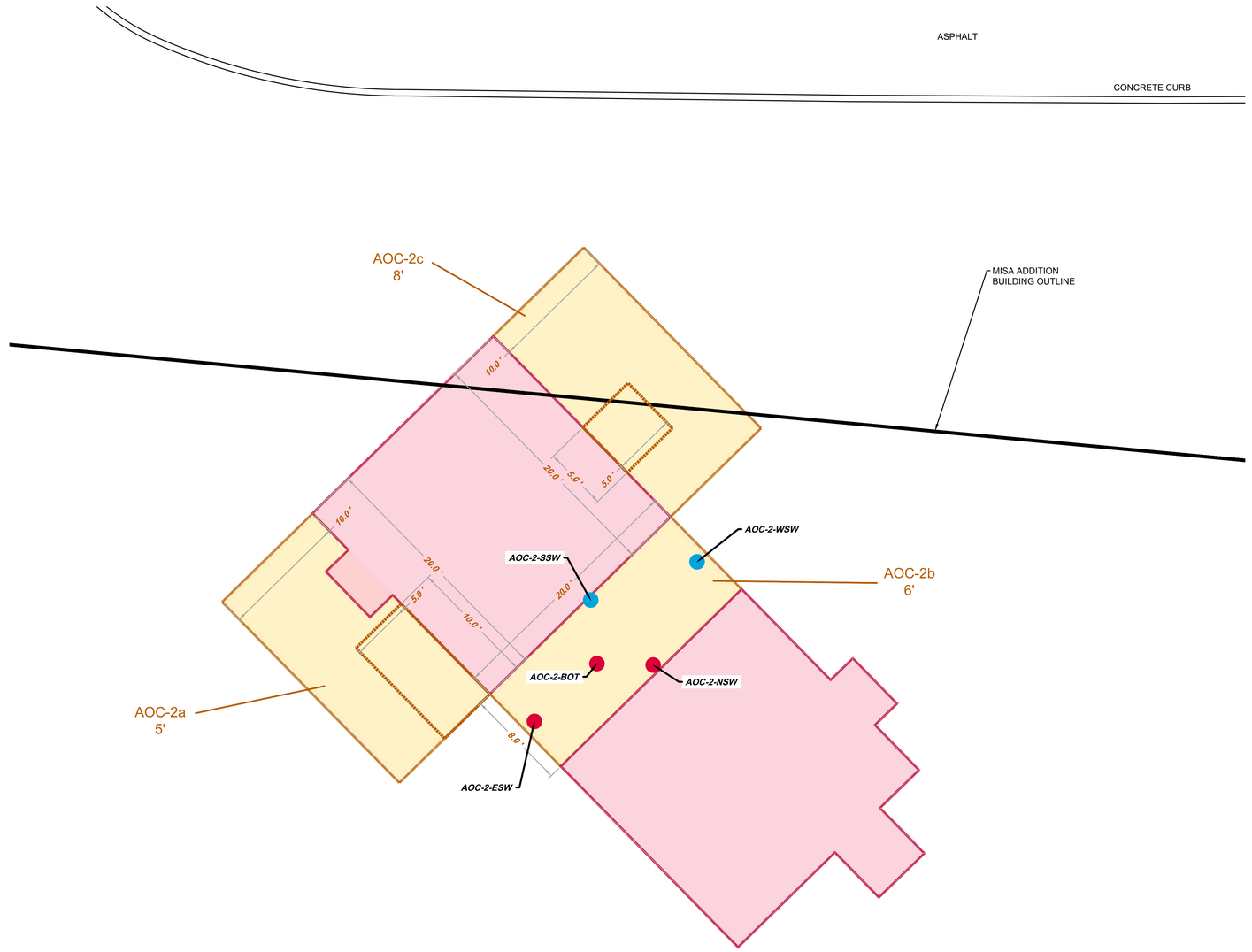

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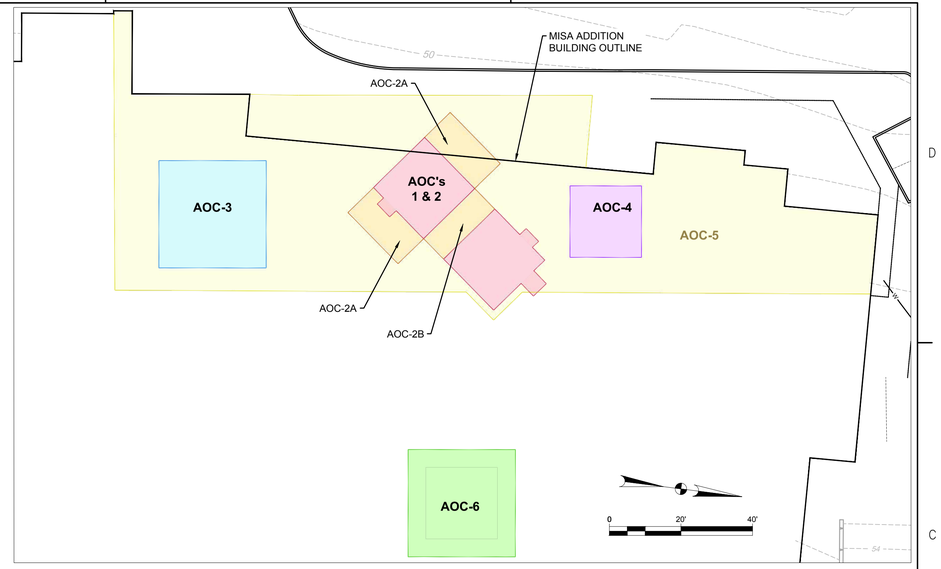

KEY MAP

LEGEND

- 8' — SOIL AOC-1 PCB > 50 (EXCAVATION AREA AND DEPTH)
- 8' — SOIL AOC-2 PCB > 10 (EXCAVATION AREA AND DEPTH)

SAMPLE KEY

SAMPLE LOCATION -
(COLORS INDICATE THE MAXIMUM LEAD CONCENTRATION IN SOIL)

- NOT DETECTED
- LEAD LESS THAN GA PMC
- LEAD GREATER THAN GA PMC

NOTE: GA PMC is 0.015 mg/L

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SCALE: 0 5' 10'

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GREENWICH, CT

FIGURE 6-3
AOC-2b EXCAVATION LIMITS AND LEAD SAMPLING LOCATIONS

OCTOBER 2018

JOB 60432356
FILE NO.
CAD FILE 60225155-010
SHEET 6-3

PATH/FILENAME: P:\60225155 GREENWICH HS\900-WORK\910-CAD\20-SHEETS\2018-MSA-COMPLETION-REPORT\60225155-010.DWG
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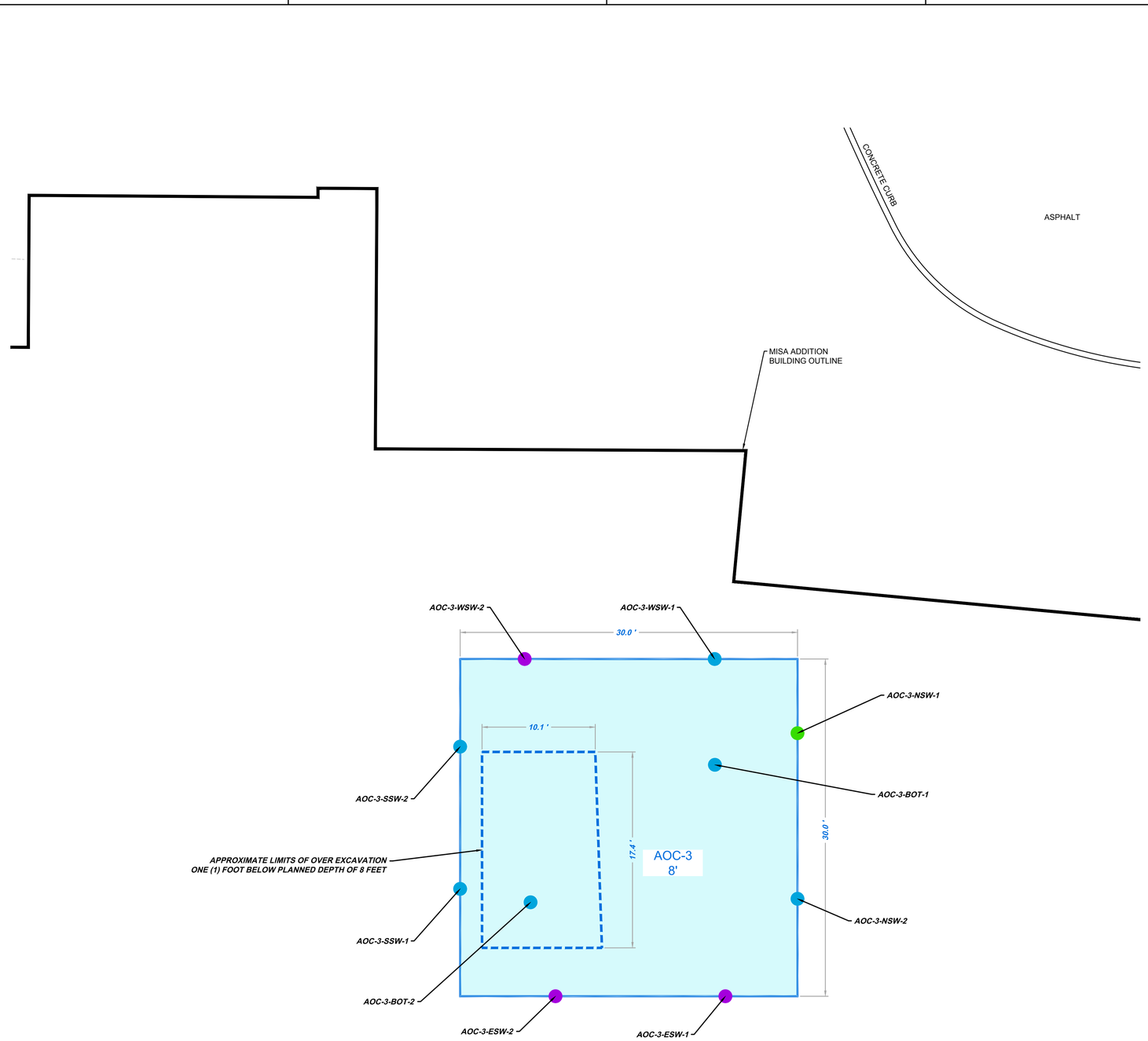

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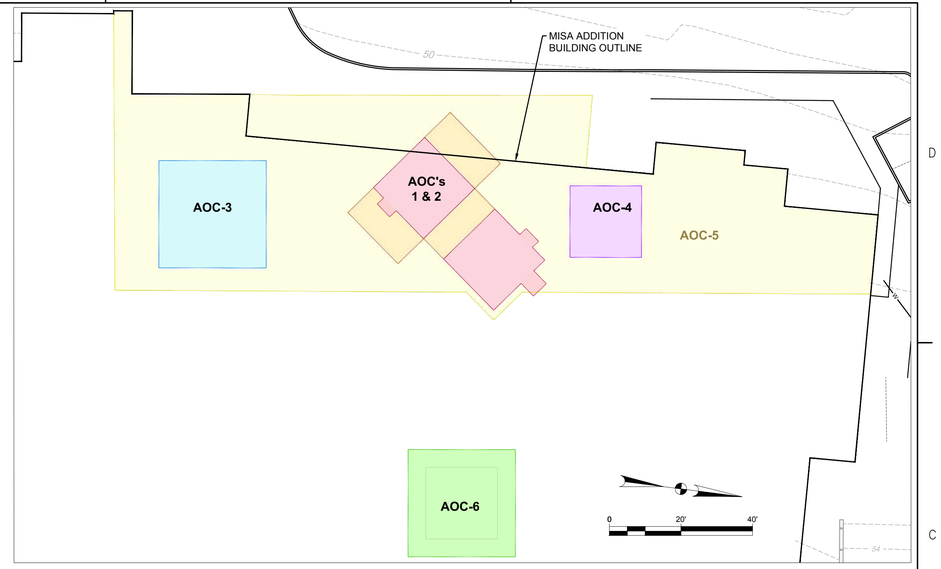

KEY MAP

LEGEND

8' — SOIL AOC-3 PCB > 1, Pb >SPLP (EXCAVATION AREA AND DEPTH)

SAMPLE KEY

SAMPLE LOCATION -
(COLORS INDICATE THE MAXIMUM PCB CONCENTRATION IN SOIL)

- NOT DETECTED
- ≤ 1 mg/kg
- >1 - ≤ 10 mg/kg
- >10 - ≤ 50 mg/kg
- > 50 mg/kg

NOTE: OVER-EXCAVATED SAMPLES ARE NOT SHOWN.

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SCALE: 0 5' 10'

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GREENWICH, CT

FIGURE 6-4
AOC-3 EXCAVATION LIMITS AND PCB SAMPLING LOCATIONS

OCTOBER 2018

JOB 60432356
FILE NO.
CAD FILE 60225155-010
SHEET 6-4

PATH/FILENAME: P:\60225155 GREENWICH HS\900-WORK\910-CAD\20-SHEETS\2018-MISA-COMPLETION-REPORT\60225155-010.DWG
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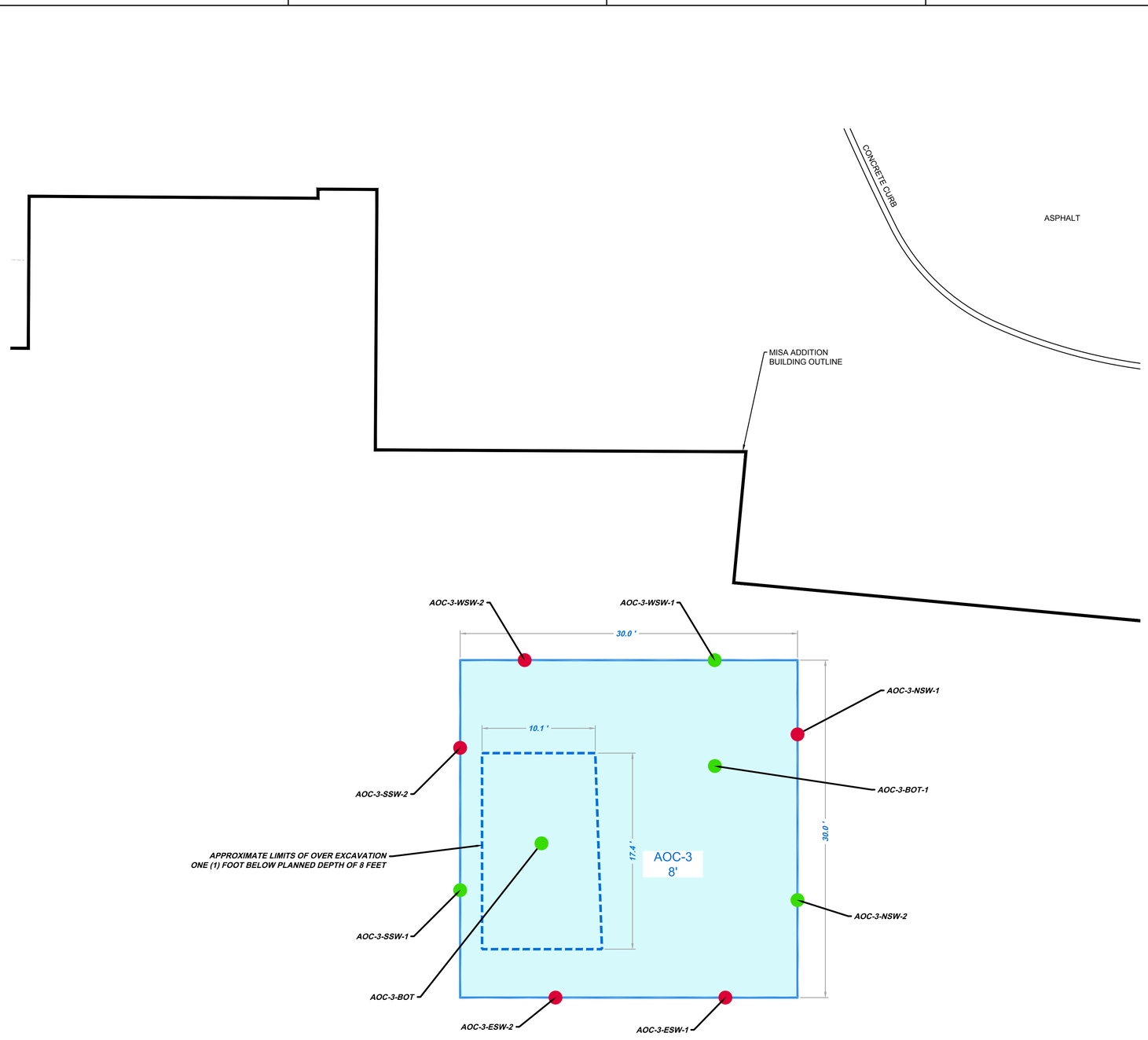
ARCH D = 3-7-05



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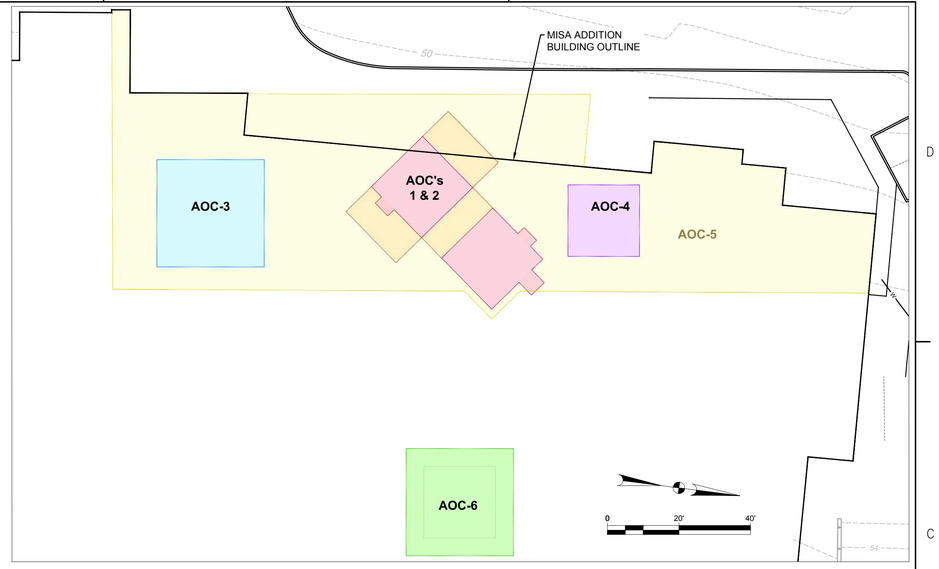

KEY MAP

LEGEND

8' — SOIL AOC-3 PCB > 1, Pb >SPLP (EXCAVATION AREA AND DEPTH)

SAMPLE KEY

SAMPLE LOCATION -
(COLORS INDICATE THE MAXIMUM LEAD CONCENTRATION IN SOIL)

- LEAD NOT DETECTED
- LEAD LESS THAN GA PMC
- LEAD GREATER THAN GA PMC

NOTES:

1) GA PMC IS 0.015 mg/L
2) OVER-EXCAVATED SAMPLES ARE NOT SHOWN.

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SCALE: 0 5' 10'

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GREENWICH, CT

FIGURE 6-5
AOC-3 EXCAVATION LIMITS AND LEAD SAMPLING LOCATIONS

OCTOBER 2018

JOB 60432356
FILE NO.
CAD FILE 60225155-010
SHEET 6-5

PATH/FILENAME: P:\60225155 GREENWICH HS\900-WORK\910-CAD\00-SHEETS\2018-MISA-COMPLETION-REPORT\60225155-010.DWG
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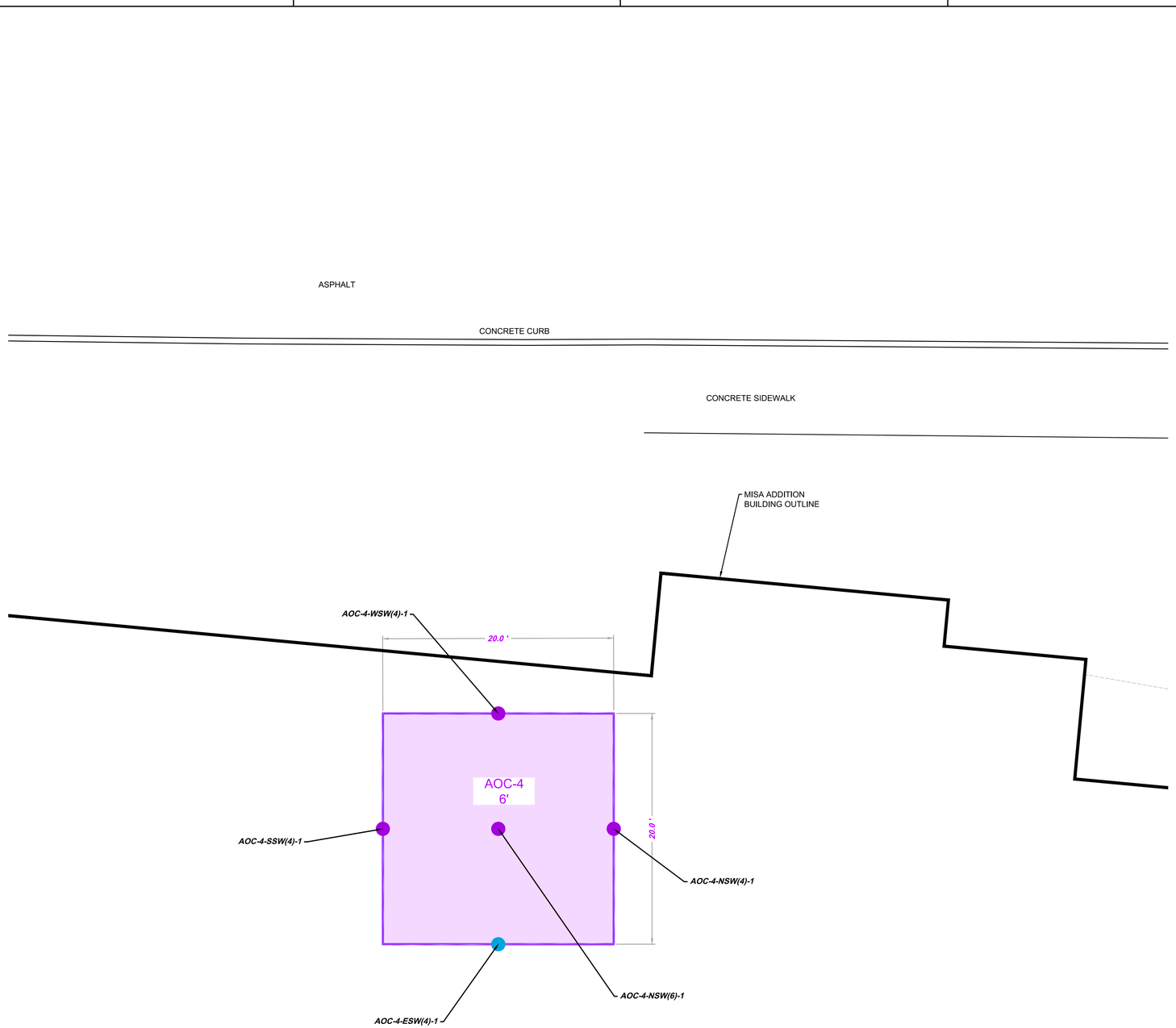
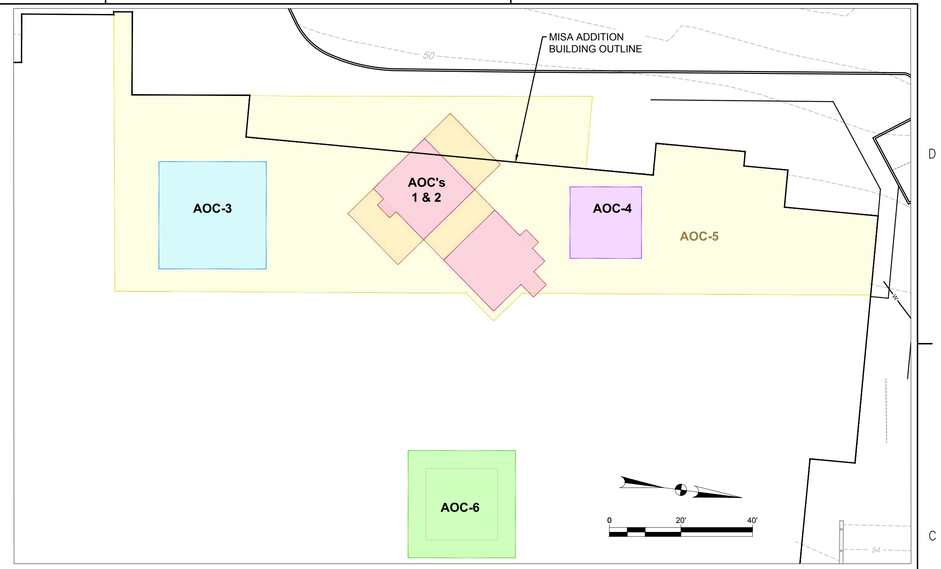
PLOT DATE: Tuesday, December 11, 2018 2:50:35 PM
ARCH D - 3-7-05



PLAN



KEY MAP

LEGEND

6' — PROPOSED SOIL EXCAVATION AREA
AOC-4 TPH > GA PMC (EXCAVATION AREA AND DEPTH)

SAMPLE KEY

SAMPLE LOCATION -
(COLORS INDICATE THE MAXIMUM PCB CONCENTRATION IN SOIL)

- NOT DETECTED
- ≤ 1 mg/kg
- >1 - ≤ 10 mg/kg
- >10 - ≤ 50 mg/kg
- > 50 mg/kg

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SCALE: 0 5' 10'

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FIGURE 6-6
AOC-4 EXCAVATION LIMITS AND PCB SAMPLING LOCATIONS

OCTOBER 2018

JOB 60432356
FILE NO.
CAD FILE 60225155-010
SHEET 6-6

PATH/FILENAME: P:\60225155 GREENWICH HS\900-WORK\910-CAD\20-SHEETS\2018-MISA-COMPLETION-REPORT\60225155-010.DWG
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PLOT DATE: Tuesday, December 11, 2018 2:50:50 PM
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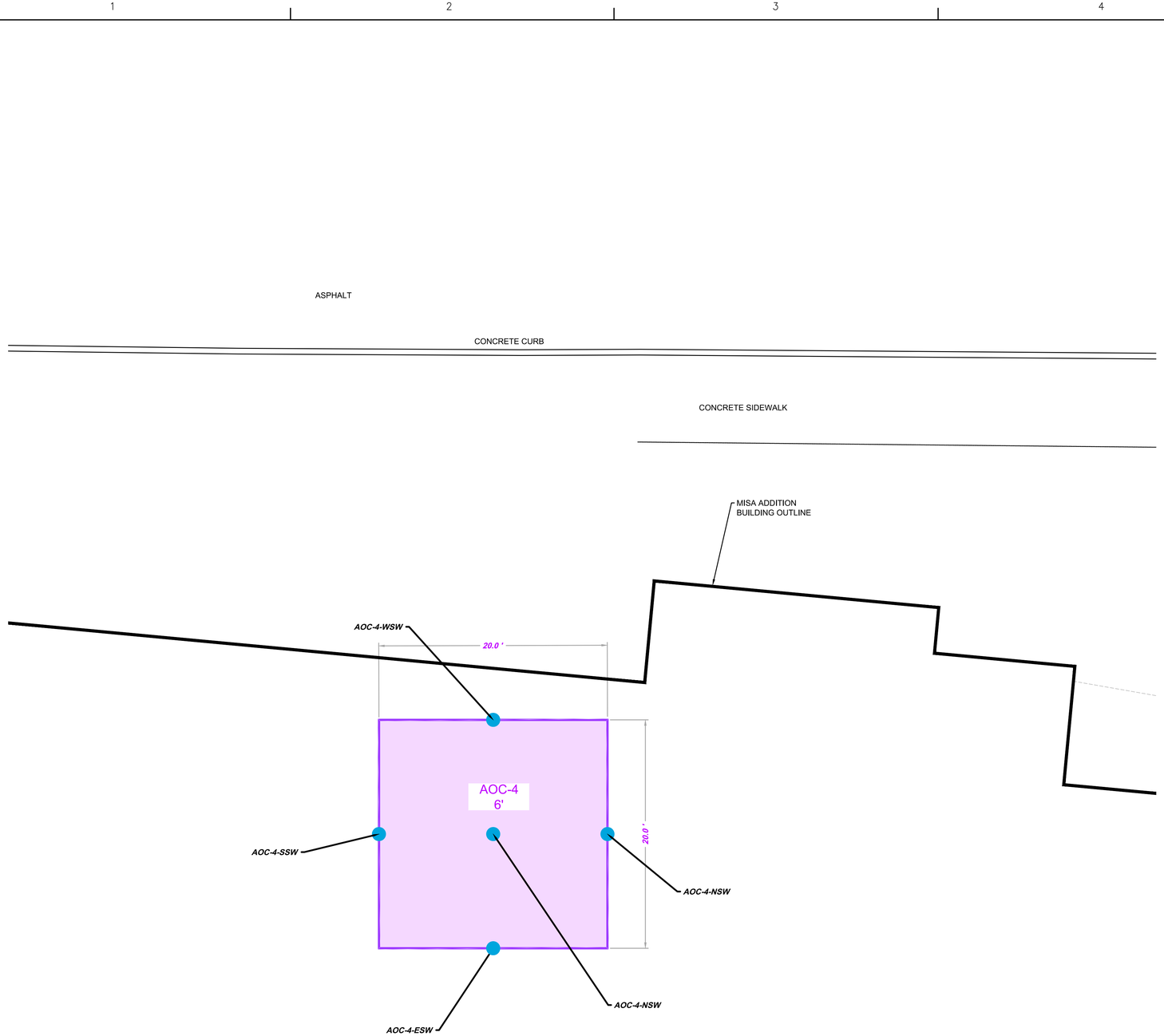
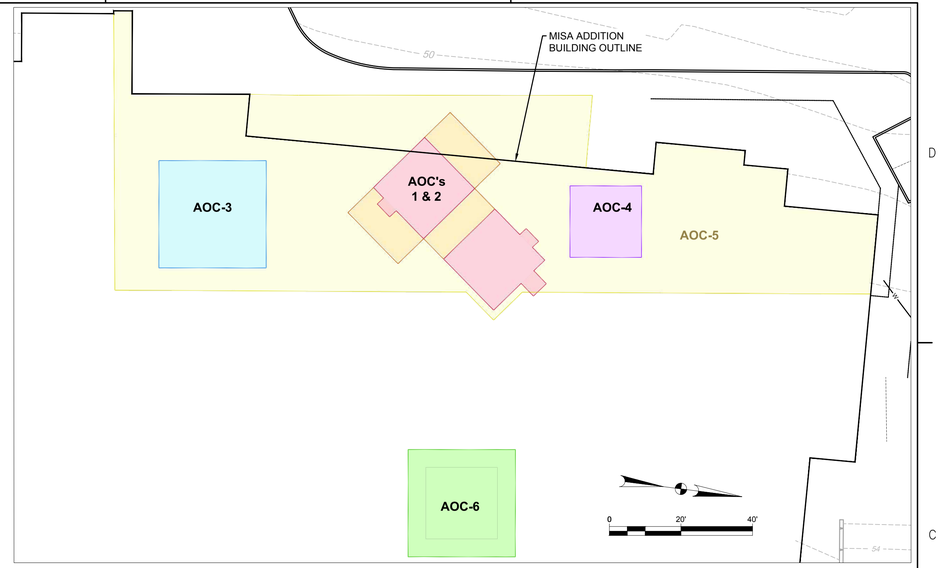


PLAN



KEY MAP

LEGEND

6' — PROPOSED SOIL EXCAVATION AREA
AOC-4 TPH > GA PMC (EXCAVATION AREA AND DEPTH)

SAMPLE KEY

SAMPLE LOCATION -
(COLORS INDICATE THE MAXIMUM ETPH CONCENTRATION IN SOIL)

ETPH LESS THAN GA PMC

NOTE: GA PMC is 500 mg/L

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SCALE: 0 5' 10'

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10 HILLSIDE RD
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FIGURE 6-7
AOC-4 EXCAVATION LIMITS AND ETPH SAMPLING LOCATIONS

OCTOBER 2018

JOB 60432356
FILE NO.
CAD FILE 60225155-010
SHEET 6-7

PATH/FILENAME: P:\60225155 GREENWICH HS\900-WORK\910-CAD\20-SHEETS\2018-MISA-COMPLETION-REPORT\60225155-010.DWG
LAST UPDATE: Tuesday, December 11, 2018 2:37:58 PM
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ARCH D - 3-7-05

LEGEND

4' — SOIL AOC-6 PAHs > GA PMC

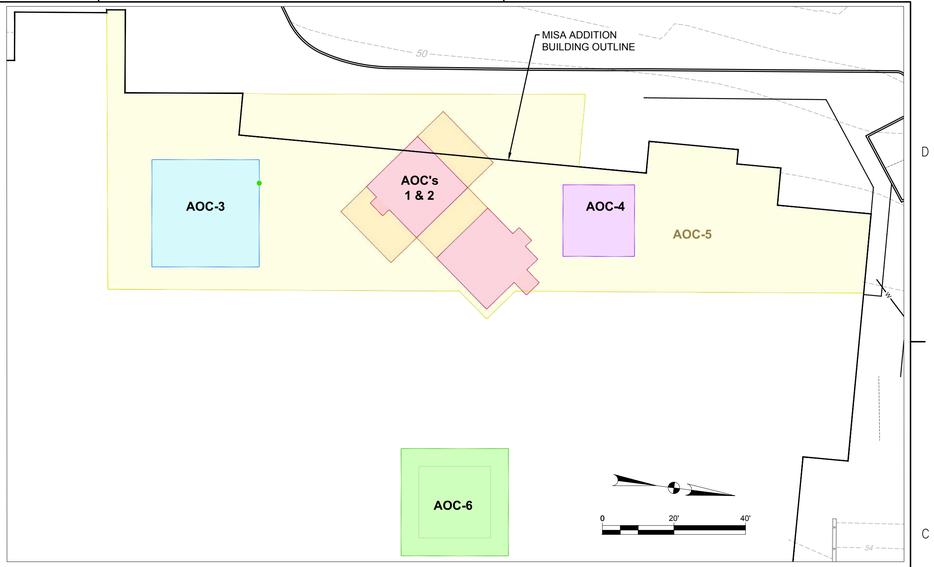
SAMPLE KEY

SAMPLE LOCATION -
(COLORS INDICATE THE MAXIMUM PAH CONCENTRATION IN SOIL)

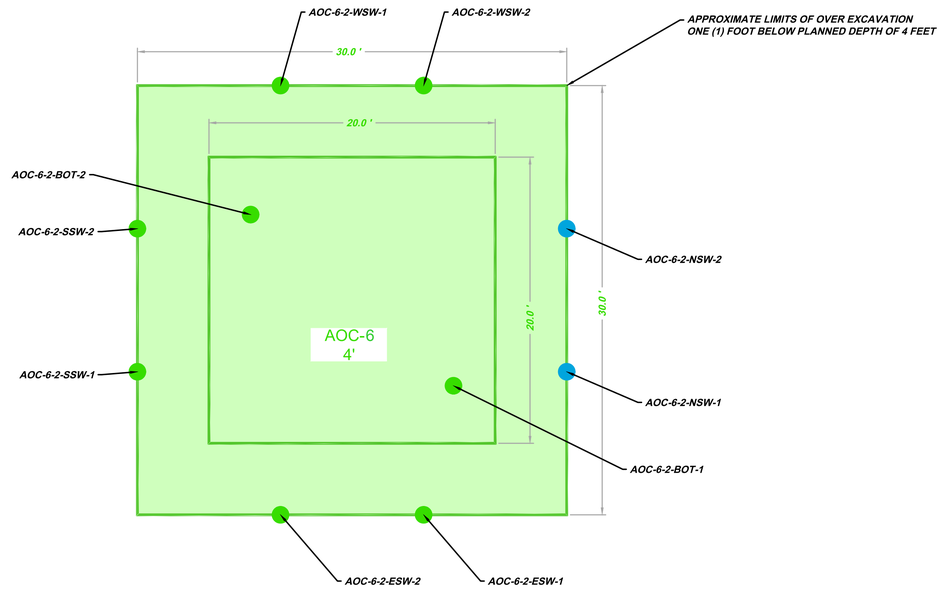
- NOT DETECTED
- PAHs LESS THAN GA PMC

NOTES:

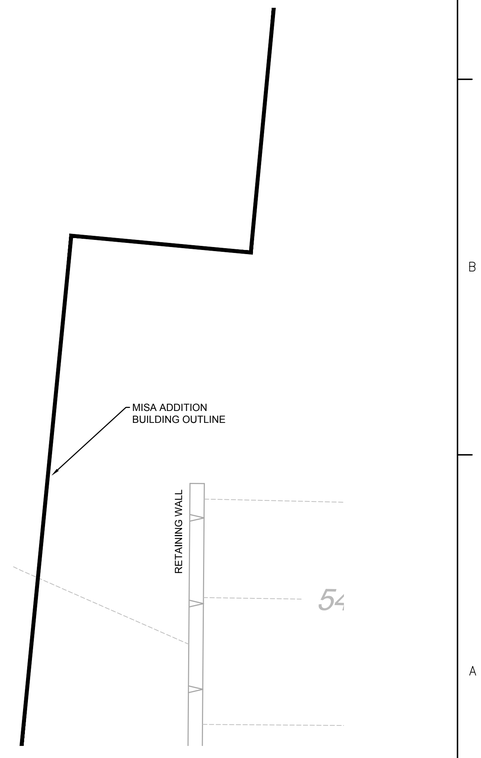
1) GA PMC FOR INDIVIDUAL PAHs ARE INCLUDED ON TABLE 6-8
2) OVER-EXCAVATED SAMPLES ARE NOT SHOWN.



KEY MAP



PLAN



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SCALE: 0 5' 10'

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FIGURE 6-8
AOC-6 EXCAVATION LIMITS AND PAH SAMPLING LOCATIONS

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FILE NO.
CAD FILE 60225155-01D
SHEET 6-8

PATH/FILENAME: P:\60225155 GREENWICH HS\900-WORK\910-CAD\00-SHEETS\2018-MISA-COMPLETION-REPORT\60225155-010.DWG
LAST UPDATE: Tuesday, December 11, 2018 2:37:58 PM
PLOT DATE: Tuesday, December 11, 2018 2:51:20 PM
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Appendix A
AMEC Remediation Work Plan

Greenwich High School

Auditorium & Music Instruction Space Addition

SUBMITTAL COVER SHEET

Construction Manager:	Turner Construction Company 440 Wheelers Farms Road Milford, CT 06460		
Project Name:	G.H.S Auditorium & Music Instruction	**Theater Design:**	Cosler Theater Design, Inc.
Project Address:	10 Hillside Road Greenwich, CT 06830	**Architect:**	55 Eight Ave, Suite 1801 New York, NY 10018
Architect Name:	ID3A	**MEP Engineer**:	Consulting Engineering
Address:	655 Winding Brook Drive Glastonbury, CT 06033	**Address:**	Services (CES) 811 Middle Street Middletown, CT 06457
Structural Engineer:	Diversified Tech. Consultants	**Civil Engineer:**	Diversified Tech. Consultants
Address:	556 Washington Avenue North Haven, CT 06473	**Address:**	556 Washington Avenue North Haven, CT 06473

SUBCONTRACTOR NAME: AMEC CONSTRUCTION

SUBCONTRACTOR ADDRESS: 270 MAIN AVENUE NORWALK, CT 06851

SUBMITTAL DATE: 7/2/13 SUBMITTAL NO. 1- 31 20 01 1.4A

SPEC SECTION: 31 20 01 1.4A **DWG. REFERENCES:** N/A **SUPPLIER NAME/ADDRESS:** N/A **MANUFACTURER NAME/ADDRESS:** N/A **ITEM(S) SUBMITTED:** AMEC WORK PLAN	Reviewer's Stamp:

REVIEWED FOR GENERAL ACCEPTANCE ONLY. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR MAKING THE WORK CONFORM TO THE REQUIREMENTS OF THE CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS, CORRECT FABRICATION AND ACCURATE FIT WITHIN THE WORK OF THEIR TRADES.
TURNER CONSTRUCTION COMPANY

BY: _____ **DATE:** _____

REF: _____

AMEC Remediation Work Plan

For

Greenwich High School
Music Instructional Space & Auditorium

June 12, 2013

Prepared for

Turner Construction Company
440 Wheelers Farm Road
Milford, Ct

And
Greenwich High School Building Committee

Prepared by

AMEC Construction LLC
270 Main Avenue
Norwalk, CT

PURPOSE

It is the intent of AMEC Construction, and its Management to maintain a safe and healthful work-site for all employees, contractors, and visitors at the **Greenwich High School Music Instructional Space & Auditorium Project in Greenwich, Connecticut**. This Work Plan along with AMEC's Health and Safety Plan (HASP) has incorporated all of the applicable OSHA standards (including those for Hazardous Waste and Emergency Response, 1910.120) and Best Management Practices that AMEC feels are necessary for the health and safety of employees, contractors, and visitors on the Site.

Project Description

AMEC Construction, LLC will provide all labor, materials, equipment, and services required to complete all **Site Remediation Work, Site work, Site Utilities, H-Piles, Barrier Wall Sheeting, Rock Anchors, Site Concrete, Paving, and Landscaping in accordance with Bid Package No. 2** for the **Greenwich High School Music Instructional Space & Auditorium Project in Greenwich, Connecticut**.

Job Hazard Analysis (JHA)

A JHA will be filled out and implemented at the daily briefings for all AMEC and Subcontractors work activities. If site conditions change, for whatever reason, in such a way that the JHA does not adequately address the situation, the work activity will be stopped until new JHA can be fill out to address the situation.

SCOPE OF WORK

Contamination Zones

AMEC will set up a three zone work area (see attached contamination zones drawing). An 8ft high temporary chain link fence will be installed to establish a Clean Support zone (CSZ), outside the fenced area, a Contamination reduction zone (CRZ) inside the fenced area. A 6ft high temporary chain link fence will be installed to establish the Exclusion zone (EZ) or hot zone.

Throughout Remedial Activities (RA), the exclusion zone will include all areas where remedial activities are in progress including all excavation, stockpile, and backfill areas. It is where PCB contamination is known or suspected to be present. The EZ includes the work area except for areas set aside as either the CRZ or CSZ. The EZ will be defined and marked off in the field.

Entry procedure for Site workers to get to EZ:

a. Enter the SZ through the designated entry point.

b. Personnel must put on the specified PPE in the SZ (modified level D)

c. Enter the CRZ through the designated entry point.

Exit procedure after completing work or to take a break to leave the EZ:

a. Leave the EZ and enter the CRZ through the designated exit and entry points.

b. Personnel and equipment will be decontaminated in the CRZ.

c. Personnel will leave their decontaminated PPE and don their street clothes before existing to the CSZ.
d. Exiting the CRZ requires removing all contaminants through compliance with established decontamination procedures.
e. Tubs of water and scrub brushes will be located in the contaminant reduction zone to clean boots and barrels will be provided in this area for disposable PPE and other materials.

Water Treatment System

A water treatment system will be set up to treat any water encountered during the remediation and soil excavations in the MISA Building Footprint. (see attached drawing)

The water treatment system will be equipped with an oil water separator and coalescing media, one quad 6" x 18" bag filter assemblies (size #10 micron), two centrifugal pumps, one flow meter with control panel, two L-1000 carbon vessels for the removal of PCB contaminates, and dual 6" x18" bag filters (size #1 micron) for removal of trace PCB's after the L1000 carbon vessels.

Dewatering

The water encountered during excavations in the MISA Building Footprint will be pumped from the excavations into 20,000 gallon frac tanks using submersible or centrifugal pumps as needed. The water will then be pumped through the water treatment system into clean 20,000 gallon frac tanks for holding. The water in the holding tanks will be tested at the frequency required by The Town of Greenwich discharge permit, before disposal into The Town of Greenwich sewer system at the designated location.

Soil Remediation

All excavation and disposal of contaminated soils will be under the direction of AECOM.

AMEC will remove the asphalt pavement in MISA building footprint and install a tracking pad, and all erosion controls required. The asphalt pavement will be disposed of offsite.

AMEC will use a PC 200 Excavator with a plate welded over the teeth to make a grading bucket. All excavations will start by removing the upper three feet of soil which will be stockpiled for onsite reuse only. After the upper three feet of soil has been removed, the remedial excavations will be performed to the dimensions and depths listed in the Soil Remedial Action Plan (AECOM, January 2012). The excavations will be performed as follows:

- AOC-1 – Excavation in AOC-1 will be performed first and excavation in other AOCs will not be performed until verification sample results, to be collected by AECOM, have been received that indicate that all soil with total PCB concentrations ≥50 mg/kg has been removed. Soil will be live loaded for disposal at the EQ Wayne Landfill
- AOC-2 – Excavation in AOC-2 will be performed after the removal of soil with ≥50 mg/kg total PCBs from AOC-1 has been completed and verified. Excavation in AOC-2 will be performed until verification sample results indicate that all soil with total PCB concentrations >10 mg/kg has been removed. Soil will be live loaded for disposal at the Seneca Meadows Landfill.
- AOC-3 and AOC-4 – Excavation in these AOCs will be performed after removal of soil from AOC-1 and AOC-2 has been completed and verified. The excavations will be considered complete when remedial goals for lead (AOC-3) and TPH (AOC-3 and AOC-4) have been met. Verification samples will be collected by AECOM at the frequency indicated in the remedial plan. Soil will be live loaded for disposal at the Seneca Meadows Landfill.
- AOC-5 – Excavation in AOC-5 will be performed after the completion of excavations in AOC-1 through AOC-4. Soil from AOC-5 will be removed on an as-needed basis for the construction of subsurface structures associated with MISA construction. Soil will be live loaded for disposal at the Seneca Meadows Landfill.
- AOC-6 – Excavation in AOC-6 will be performed after the completion of excavations in AOC-1 through AOC-4. Soil will be live loaded for disposal at the Seneca Meadows Landfill.

Disposal Facility's

Soil containing PCB's > 50 mg/kg will be transported and disposed at:

EQ Wayne Landfill
49350 North 1-94 Service Drive
Belleville, MI 48111

Soil containing non-haz. PCB's < 50 mg/kg will be transported and disposed at:

Seneca Meadows Landfill
1786 Salcman Road
Waterloo, NY 13165

Equipment Decontamination

All equipment and tools that contacted PCB waste will be decontaminated prior to leaving the Exclusion zone or the Contamination reduction zone. The equipment will be cleaned using a double wash/rinse and swabbed with a solvent solution containing d-limonene. Any water generated from decontamination will be collected and sent through the water treatment system for cleaning.

MISA Building Excavation

After verification sampling has been completed, the building footprint will be excavated to "elevation 48' for the H-Pile installation". The soil excavated from the building footprint will be stockpiled for reuse (onsite only). Starting on the south side working north the approaches will be excavated for the underpinning (by others) to be installed. Starting from the south side of the building the pile caps, grade beams, and footings will be excavated.

Barrier Wall Orchestra Pit

After completion of the H-Pile installation, a barrier wall consisting of steel sheet pile will be installed around the three sides of the orchestra pit to prevent water from infiltrating the excavation. The sheet pile will be installed approx. 10-12ft away from where the excavation will be to allow standard excavation sloping back to the steel sheeting. This will allow soil to be against the sheet pile on both sides for added protection against water infiltration. The orchestra pit will then be excavated and the rock anchors will be installed.

Utility Install in Areas of Concerns

The soil excavated during installation of underground utilities in the AOC areas will be direct loaded and transported offsite for disposal. (Or as instructed by AECOM)

Transportation and Disposal Certification

Manifests or Bills of Lading will be filled out along with certification of the disposal of waste forms. Copies of these forms will be maintained in accordance with the requirements of PCB waste disposal records and reports.

Appendix B
Remedial Action Plan Approval

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I
5 POST OFFICE SQUARE, SUITE 100, BOSTON, MASSACHUSETTS 02109-3912

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

DEC 0 3 2012

Ronald Matten, Director of Facilities
Greenwich Public Schools
290 Greenwich Avenue
Greenwich CT 06830

Re: PCB Soil Disposal Approval under §§ 761.61(a) and (c)
Greenwich High School – MISA Footprint Project Area

Dear Mr. Matten:

This is in response to the Greenwich Public Schools (GPS) Notification[1] to address PCB-contaminated soils within the MISA footprint project area (the Site) at the Greenwich High School property located at 10 Hillside Road in Greenwich, Connecticut. The Site contains PCBs at concentrations that exceed the allowable PCB levels for unrestricted use under the federal PCB regulations at 40 CFR § 761.61(a). GPS has requested an approval to clean up and dispose of the PCB-contaminated soils located at the Site under the PCB self-implementing cleanup and disposal option (SIP) at 40 CFR § 761.61(a).

GPS is proposing the following PCB cleanup and disposal plan in the MISA footprint and its associated structures (storm water detention tank and new piping):

- ⇨ Within the MISA footprint, remove all soil with total PCB concentrations greater than or equal to (≥) 50 parts per million (ppm) and dispose in a TSCA-permitted disposal facility or RCRA hazardous waste landfill in accordance with § 761.61(a)(5)(i)(B)(*2*)(*iii*); and, collect verification samples to confirm that all ≥ 50 ppm PCB-contaminated soil has been removed prior to removal of the less than (<) 50 ppm PCB-contaminated soil;

---

1 Information was submitted on behalf of GPS by AECOM to satisfy the notification requirements under 40 CFR §§ 761.61(a)(3) and (c). Information was provided dated January 23, 2012 (Soil Remedial Action Plan MISA Phase IIB Construction); April 20, 2012 (Soil Remedial Action Plan Addendum); August 16, 2012 (Response to EPA Comments); September 26, 2012 (Soil Remedial Action Plan MISA Construction Schedule); October 17, 2012 (US Army Corps of Engineers letter); October 24, 2012 (email Distribution of PCB concentrations in MISA project area); and, November 20, 2012 (email regarding MISA waterproofing and groundwater elevation). These submittals will be referred to as the "Notification."

- ⇨ Within the MISA footprint, remove all soil with total PCB concentrations greater than (>) 10 ppm but < 50 ppm and dispose in a RCRA non-hazardous waste landfill in accordance with § 761.61(a)(5)(i)(B)(*2*)(*ii*); and, collect verification samples to confirm that all > 10 ppm PCB-contaminated soil has been removed;

- ⇨ For soils excavated from within the MISA footprint during MISA construction which have concentrations of PCBs > 1 ppm but less than or equal to (≤) 10 ppm, dispose of those soils in a RCRA non-hazardous waste landfill in accordance with § 761.61(a)(5)(i)(B)(*2*)(*ii*);

- ⇨ Within the MISA footprint, construct compliant cap (i.e., building structure) conforming to the requirements under § 761.61(a)(7);

- ⇨ Remove soils located in the new storm water detention tank area and associated new piping area(s), and dispose as a ≥ 50 ppm PCB waste in a TSCA-permitted disposal facility or RCRA hazardous waste landfill in accordance with § 761.61(a)(5)(i)(B)(*2*)(*iii*); and,

- ⇨ Record a notation on the deed to document that PCBs at > 1 ppm remain within the MISA footprint beneath a compliant cap in accordance with § 761.61(a)(8).

With the exception of the MISA footprint soil characterization sampling for off-site disposal, the information provided meets the requirements under § 761.61(a). Given the proposed excavation plan and the proposed sampling during excavation of the MISA footprint, EPA finds that the proposed deviation will pose no unreasonable risk to public health or the environment. Thus, EPA may approve this deviation under § 761.61(c).

EPA is approving the Notification and GPS may proceed with its PCB cleanup and disposal under 40 CFR §§ 761.61(a) and (c); its Notification; and this Approval, subject to the conditions of Attachment 1.

This Approval only applies to the MISA footprint and **does not** apply to those areas where additional data is being collected to confirm the current PCB concentrations at the Site, including the storm water detention tank and associated new piping. However, please be aware that EPA is requiring sampling of soils located within the area(s) of the new storm water detention tank and the new piping that will be installed as part of the MISA project to document conditions within these locations. See Attachment 1, Condition 14.

Under this Approval, EPA **is requiring** GPS to conduct the necessary outreach to its GHS users regarding the work to be undertaken for the MISA project. GPS shall ensure that its website is updated to reflect MISA project activities and is current as to information regarding investigations and work that has been and will be taken at the Greenwich High School property. See Attachment 1, Condition 12.

This Approval does not release GPS from any applicable requirements of federal, state or local law, including the state requirements related to PCB-contaminated soils remaining on-site at concentrations > 1 ppm and ≤ 10 ppm under the Connecticut Department of Energy and Environmental Protection (CTDEEP) regulations; to any additional requirements necessary to address pollutant mobility and direct exposure criteria; and, to the cleanup of other [non-PCB] contaminants. EPA encourages GPS to continue to work with the CTDEEP to insure it has all approvals necessary for this project.

Questions and correspondence regarding this Approval should be directed to:

Kimberly N. Tisa, PCB Coordinator
United States Environmental Protection Agency
5 Post Office Square, Suite 100 (OSRR07-2)
Boston, Massachusetts 02109-3912
Telephone: (617) 918-1527
Facsimile: (617) 918-0527

EPA shall not consider this MISA project complete until it has received all submittals required under this Approval. Please be aware that upon EPA receipt and review of the submittals, EPA may request any additional information necessary to establish that the work has been completed in accordance with the 40 CFR Part 761, the Notification, and this Approval.

Sincerely,

Nancy Barmakian for

James T. Owens, III
Director, Office of Site Remediation & Restoration

cc: M. Beeler, AECOM
G. Trombly, CTDEEP
J. Wilcox, CTDEEP
S. Rusnak, CTDPH
File

ATTACHMENT 1:

PCB CLEANUP AND DISPOSAL APPROVAL CONDITIONS
GREENWICH HIGH SCHOOL - MISA CONSTRUCTION
10 HILLSIDE ROAD
GREENWICH, CONNECTICUT

GENERAL CONDITIONS

1. This Approval is granted under the authority of Section 6(e) of the Toxic Substances Control Act (TSCA), 15 U.S.C. § 2605(e), and the PCB regulations at 40 CFR Part 761, and applies solely to *PCB remediation waste* located within the proposed MISA construction project as identified in the Notification.[1] Specifically, this Approval addresses cleanup and disposal of PCB-contaminated soils located within the MISA footprint, and excavation and disposal of PCB-contaminated soil located within the new storm water detention tank and the associated new piping areas.

2. Greenwich Public Schools (GPS) shall conduct on-site activities in accordance with the conditions of this Approval and with the Notification.

3. In the event that the cleanup plan described in the Notification differs from the conditions specified in this Approval, the conditions of this Approval shall govern.

4. The terms and abbreviations used herein shall have the meanings as defined in 40 CFR § 761.3 unless otherwise defined within this Approval.

5. GPS must comply with all applicable federal, state and local regulations in the storage, handling, and disposal of all PCB wastes, including PCBs, PCB Items and decontamination wastes generated under this Approval. In the event of a new spill of PCBs during response actions, GPS shall contact EPA within 24 hours for direction on sampling and cleanup requirements.

6. GPS is responsible for the actions of all officers, employees, agents, contractors, subcontractors, and others who are involved in activities conducted under this Approval. If at any time GPS has or receives information indicating that GPS or any other person has failed to comply with any provision of this Approval, it must report the information to EPA in writing within 24 hours of having or receiving the information.

---

[1] Information was submitted on behalf of GPS by AECOM to satisfy the notification requirements under 40 CFR §§ 761.61(a)(3) and (c). Information was provided dated January 23, 2012 (Soil Remedial Action Plan MISA Phase IIB Construction); April 20, 2012 (Soil Remedial Action Plan Addendum); August 16, 2012 (Response to EPA Comments); September 26, 2012 (Soil Remedial Action Plan MISA Construction Schedule); October 17, 2012 (US Army Corps of Engineers letter); October 24, 2012 (email Distribution of PCB concentrations in MISA project area); and, November 20, 2012 (email regarding MISA waterproofing and groundwater elevation). These submittals will be referred to as the "Notification."

7. This Approval does not constitute a determination by EPA that the transporters or disposal facilities selected by GPS are authorized to conduct the activities set forth in the Notification. GPS is responsible for ensuring that its selected transporters and disposal facilities are authorized to conduct these activities in accordance with all applicable federal, state and local statutes and regulations.

8. This Approval does not: 1) waive or compromise EPA's enforcement and regulatory authority; 2) release GPS from compliance with any applicable requirements of federal, state or local law; or 3) release GPS from liability for, or otherwise resolve, any violations of federal, state or local law.

9. Failure to comply with the Approval conditions specified herein shall constitute a violation of the requirement in § 761.50(a) to store or dispose of PCB waste in accordance with 40 CFR Part 761 Subpart D.

NOTIFICATION AND CERTIFICATION CONDITIONS

10. This Approval may be revoked if the EPA does not receive written notification from GPS of its acceptance of the conditions of this Approval within 10 days of receipt.

11. GPS shall submit the following information to EPA:

    a. a certification signed by the selected analytical laboratory, stating that the laboratory has read and understands the analytical and quality assurance requirements specified in the Notification and in this Approval;

    b. a contractor work plan, prepared and submitted by the selected contractor(s), detailing the procedures that will be employed for management of groundwater into the MISA area, for removal of PCB-contaminated soils and for air monitoring during removal activities. This work plan should also include information on waste storage, handling, and disposal for each waste stream type and for equipment decontamination; and,

    c. a certification signed by its selected remediation contractor, stating that the contractor has read and understands the Notification, and agrees to abide by the conditions specified in this Approval.

CLEANUP AND DISPOSAL CONDITIONS

12. GPS shall conduct outreach to GHS users and property abutters on the MISA project remedial activities. GPS shall ensure that its website is updated to reflect MISA project activities and that the website is current as to information regarding investigations and work that has been and will be taken at the Greenwich High School property.

13. The cleanup level for *PCB remediation waste* shall be less than or equal to (≤) 10 parts per million (ppm) within the MISA footprint.

    a. Bulk *PCB remediation waste* (i.e., soil) samples shall be collected on a bulk basis (i.e., mg/Kg) and results shall be reported on a dry-weight basis. Verification sampling shall comply with Subpart O and samples shall be collected from both the bottom and sidewalls to confirm that the required PCB cleanup standard has been met.

        i) Following removal of the greater than or equal to (≥) 50 parts per million (ppm) PCB-contaminated soil, verification samples shall be collected in accordance with Subpart O to confirm than all ≥ 50 ppm PCBs have been removed prior to removal of the less than (<) 50 ppm PCB-contaminated soil.

    b. Chemical extraction for PCBs shall be conducted using Methods 3500B/3540C of SW-846 for solid matrices and Method 3500B/3510C of SW-846 for aqueous matrices; and, chemical analysis for PCBs shall be conducted using Method 8082 of SW-846, unless another extraction and/or analytical method(s) is validated according to Subpart Q.

14. Soil samples shall be collected within the area(s) where the new storm water detention tank and new piping will be installed. At a minimum, samples shall be collected on a bulk basis (i.e., mg/Kg) in accordance with Subpart N and results shall be reported on a dry-weight basis.

    a. Sampling is not required for soils that will be excavated for off-site disposal as a ≥ 50 ppm PCB waste.

    b. Chemical extraction for PCBs shall be conducted using Methods 3500B/3540C of SW-846 for solid matrices and Method 3500B/3510C of SW-846 for aqueous matrices; and, chemical analysis for PCBs shall be conducted using Method 8082 of SW-846, unless another extraction and/or analytical method(s) is validated according to Subpart Q.

    c. In the event PCB concentrations are found at ≥ 50 ppm, GPS shall contact EPA for a determination on what, if any requirements, which could include additional excavation, shall apply prior to placement of the new tank or piping in the contaminated area(s).

15. PCB waste (at any concentration) generated as a result of the activities described in the Notification, excluding any decontaminated materials, shall be marked in accordance with CFR 40 CFR §§ 761.40 and 761.45; stored in a manner consistent with 40 CFR § 761.65; and, disposed of in accordance with 40 CFR § 761.61, unless otherwise specified below:

a. Decontamination wastes and residues shall be disposed of in accordance with 40 CFR § 761.79(g)(6).

b. Moveable equipment, tools, and sampling equipment shall be decontaminated in accordance with either 40 CFR § 761.79(b)(3)(i)(A), § 761.79(b)(3)(ii)(A), or § 761.79(c)(2).

c. PCB-contaminated water generated during decontamination or dewatering shall be decontaminated in accordance with 40 CFR § 761.79(b)(1) or disposed of under § 761.60.

INSPECTION, MODIFICATION AND REVOCATION CONDITIONS

16. GPS shall allow any authorized representative of the Administrator of the EPA to inspect the Site and to inspect records and take samples as may be necessary to determine compliance with the PCB regulations and this Approval. Any refusal by GPS to allow such an inspection (as authorized by Section 11 of TSCA) shall be grounds for revocation of this Approval.

17. Any proposed modification(s) in the plan, specifications, or information in the Notification must be submitted to EPA no less than 14 calendar days prior to the proposed implementation of the change. Such proposed modifications will be subject to the procedures of 40 CFR § 761.61(a)(3)(ii).

18. Any departure from the conditions of this Approval without prior, written authorization from the EPA may result in the revocation, suspension and/or modification of the Approval, in addition to any other legal or equitable relief or remedy the EPA may choose to pursue.

19. Any misrepresentation or omission of any material fact in the Notification or in any records or reports may result in the EPA's revocation, suspension and/or modification of the Approval, in addition to any other legal or equitable relief or remedy the EPA may choose to pursue.

20. Approval for these activities may be revoked, modified or otherwise altered: if EPA finds a violation of the conditions of this Approval or of 40 CFR Part 761, or of other applicable rules and regulations; if EPA finds that these activities present an unreasonable risk to public health or the environment; or, if EPA finds that there is migration of PCBs from the MISA project area.

RECORDKEEPING AND REPORTING CONDITIONS

21. GPS shall prepare and maintain all records and documents required by 40 CFR Part 761, including but not limited to the records required under Subparts J and K. A written record of the activities authorized under this Approval and the analytical sampling shall be established and maintained by GPS in one centralized location, until such time as EPA approves in writing a request for an alternative disposition of such records. All records shall be made available for inspection by authorized representatives of EPA.

22. GPS shall submit a final report, in both hard and electronic copy, to the EPA within 60 days of completion of the activities authorized under this Approval. At a minimum, this final report shall include: a short narrative of the project activities with photo-documentation; characterization and confirmation sampling analytical results with associated figures depicting sampling locations; copies of the accompanying analytical chains of custody; field and laboratory quality control/quality assurance checks; an estimate of the quantity of PCB waste disposed of and the size of the remediated area(s); copies of manifests; and copies of certificates of disposal or similar certifications issued by the disposer.

23. Within 60 days of completion of the cleanup activities described in the Notification and authorized by this Approval, and as required under § 761.61(a)(8)(i)(B), GPS shall submit to EPA a certification, that it has recorded the notation on the deed as required under § 761.61(a)(8)(i)(A). A copy of the notation on the deed must also be submitted.

24. Required submittals shall be mailed to:

    Kimberly N. Tisa, PCB Coordinator (OSRR07-2)
    United States Environmental Protection Agency
    5 Post Office Square, Suite 100
    Boston, Massachusetts 02114-3912
    Telephone: (617) 918-1527
    Facsimile: (617) 918-0527

25. No record, report or communication required under this Approval shall qualify as a self-audit or voluntary disclosure under EPA audit, self disclosure or penalty policies.

****

END OF ATTACHMENT 1

Appendix C
Site Photographs

AECOM

PHOTOGRAPH LOG

Facility Name: Greenwich High School	**Project:** MISA Remedial Action Completion Report

Photo No. **1**	**Date:** 07/24/13
Direction Photo Taken: Southeast	
Description: AOC-1A post excavation confirmation sample locations	

Photo No. **2**	**Date:** 07/30/13
Direction Photo Taken: South	
Description: Planned limits of AOC-1A-2, which included the excavation of failed confirmation samples in AOC-1A.	

AECOM

PHOTOGRAPH LOG

Facility Name: Greenwich High School	**Project:** MISA Remedial Action Completion Report

Photo No. **3**	**Date:** 07/30/13
Direction Photo Taken: South	
Description: Confirmation sample locations at AOC-1A-2.	

Photo No. **4**	**Date:** 07/26/13
Direction Photo Taken: East	
Description: AOC-1B post excavation confirmation sample locations	

AECOM

PHOTOGRAPH LOG

Facility Name: Greenwich High School	**Project:** MISA Remedial Action Completion Report

Photo No. **5**	**Date:** 08/13/13
Direction Photo Taken: East	
Description: AOC-1B-2 post excavation confirmation sample locations	

Photo No. **6**	**Date:** 08/13/13
Direction Photo Taken: Northeast	
Description: AOC-1B-3 post excavation confirmation sample locations	

AECOM

PHOTOGRAPH LOG

Facility Name:	**Project:**
Greenwich High School	MISA Remedial Action Completion Report

Photo No.	**Date:**
7	08/19/13

Description:

AOC-1B-4 post excavation confirmation sample locations

Photo No.	**Date:**
8	08/06/13

Description:

AOC-2A post excavation confirmation sample locations

AECOM

PHOTOGRAPH LOG

Facility Name: Greenwich High School	**Project:** MISA Remedial Action Completion Report

Photo No. **9**	**Date:** 08/14/13

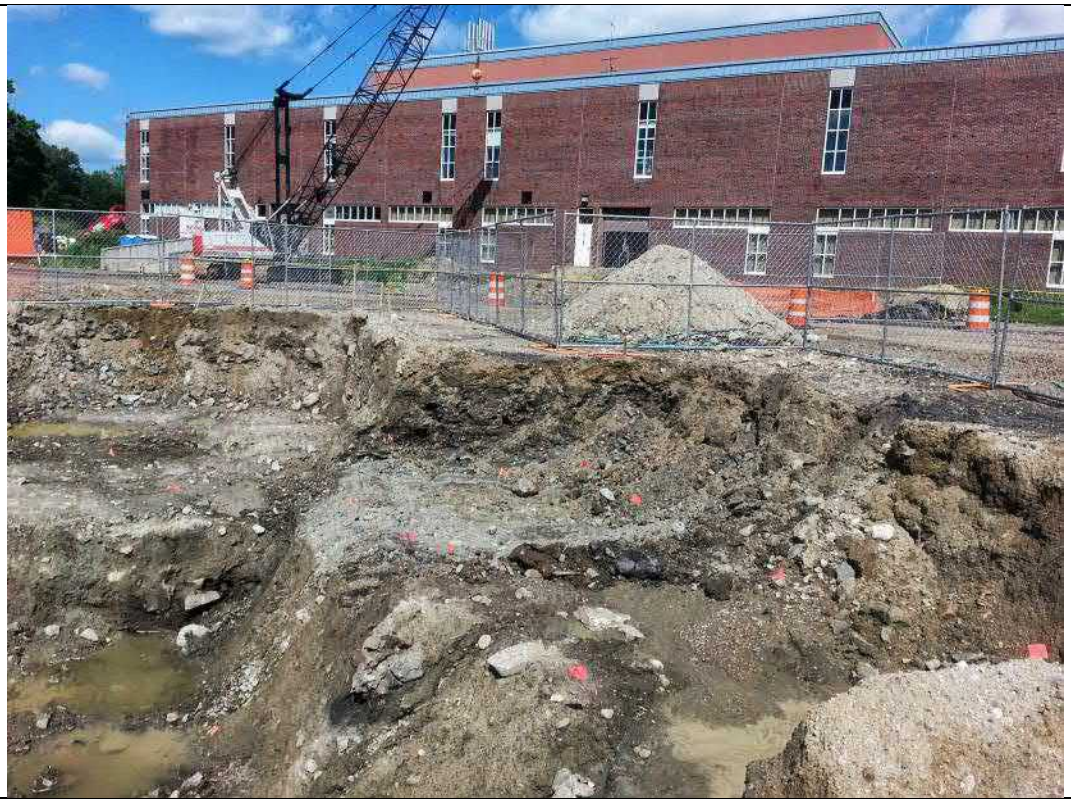
Description:

AOC-2A-2 post excavation confirmation sample locations, view 1.

Photo No. **10**	**Date:** 08/14/13

Description:

AOC-2A-2 post excavation confirmation sample locations, view 2.



AECOM

PHOTOGRAPH LOG

Facility Name: Greenwich High School	**Project:** MISA Remedial Action Completion Report

Photo No. **11**	**Date:** 08/13/13

Description:

AOC-2B post excavation confirmation sample locations (foreground)

Photo No. **12**	**Date:** 08/13/13

Description:

AOC-2C post excavation confirmation sample locations

AECOM

PHOTOGRAPH LOG

Facility Name:	**Project:**
Greenwich High School	MISA Remedial Action Completion Report

Photo No.	**Date:**
13	08/19/13

Description:

AOC-2C -2 post excavation confirmation sample locations

Photo No.	**Date:**
14	08/07/13

Direction Photo Taken:

Northeast

Description:

AOC-3 post excavation confirmation sample locations. The utility pipe encountered during the excavation was kept in place; excavation was done around the pipe.

PHOTOGRAPH LOG

Facility Name: Greenwich High School	**Project:** MISA Remedial Action Completion Report

Photo No. **15**	**Date:** 08/14/13

Description:

AOC-3-2 post excavation confirmation sample locations

Photo No. **16**	**Date:** 08/13/13

Description:

AOC-4 post excavation confirmation sample locations

AECOM

PHOTOGRAPH LOG

Facility Name: Greenwich High School	**Project:** MISA Remedial Action Completion Report

Photo No. 17	**Date:** 08/06/13

Description:

AOC-6 post excavation confirmation sample locations

Photo No. 18	**Date:** 08/19/13

Description:

AOC-6-2 post excavation confirmation sample locations

Appendix D
Groundwater Gauging Data

GZA
GeoEnvironmental, Inc.

Engineers and
Scientists

TECHNICAL MEMORANDUM

655 Winding Brook Dr.
Suite 402
Glastonbury, CT
06033

860-286-8900 (phone)
860-652-8590 (fax)
www.gza.com

TO: Bob Dwyer
AMEC Construction, LLC

FROM: Chris Tonzi, P.E.
Dan Kinard, P.E.
GZA GeoEnvironmental, Inc. (GZA)

DATE: January 15, 2014

FILE NO.: 05.0045258.00

RE: Summary of Groundwater Level Observations During Dewatering
Orchestra Pit Excavation at Greenwich High School
10 Hillside Road, Greenwich, Connecticut

In accordance with GZA's proposed Groundwater Cutoff Strategy letter dated December 23, 2013, AMEC Construction (AMEC) completed installation of planned additional groundwater cutoff measures. The additional measures included installation of two concrete cutoff wall segments. These were installed to overlap the ends of the sheet piling on the east side of the excavation and extend up the shallow bedrock surface near the west side of the Science Building. These cutoff walls were installed on December 26 and 27.

On January 1, 2014, AMEC began dewatering the orchestra pit excavation. Water from the excavation was pumped into the on-site treatment system prior to discharge to the Town sanitary sewer system. From January 1 to the present, dewatering has been semi-continuous. Extreme cold temperatures in the past two weeks have caused occasional pump failures and frozen pipes in the treatment system and discharge lines. When the discharge lines were blocked by ice, treated water was conveyed to the discharge point via truck.

On Tuesday, January 14th, AMEC estimated the water level inside the excavation to be at about El. 42.5 feet.

GZA personnel have been on-site collecting depth to water measurements in seven existing monitoring wells and piezometers, since January 2. Our personnel have been onsite every day that dewatering was actively occurring.

Groundwater Levels in the Three Nearest Monitoring Points

The three monitoring points nearest to the excavation are PZ-AM22, MW-AJ19 and PZ-AH19. These wells are located from about 50 to 80 feet from the installed sheeting. Measured groundwater levels at these locations are summarized in the following table. Note: all seven monitoring points are each protected by flush-mounted steel curb boxes, which were sometimes inaccessible due to standing water at the ground surface, particularly during heavy rains and rapid snowmelt.

Monitoring Point	Average* GW Elev. (ft) 11/26 to 12/16	Max. GW Elev. (ft) 1/2 to 1/14	Min.GW Elev. (ft) 1/2 to 1/14	Deviation from Average (ft)	Estimated Distance from the Excavation
MW-AJ19	44.3	47.1	43.9	+2.8 to -0.4	50 ft
PZ-AH19	44.4	45.2	44.2	+0.8 to -0.2	70 ft
PZ-AM22	44.7	48.0	45.3	+3.3 to +0.6	80 ft

*Based on groundwater levels reported by AECOM from November 26 to December 16 (when no dewatering of the excavation was occurring).

Groundwater Levels in the Four More Distant Monitoring Points

The four more distant wells that are being monitored are MW-AH16, MW-AM16, PZ-AE16 and PZ-AG18. These wells are located from about 130 to 230 feet from the installed sheeting. Measured groundwater levels at these locations are summarized below.

Monitoring Point	Average* GW Elev. (ft) 11/26 to 12/16	Max. GW Elev. (ft) 1/2 to 1/14	Min.GW Elev. (ft) 1/2 to 1/14	Deviation from Average (ft)	Estimated Distance from the Excavation
PZ-AG18	44.8	46.7	43.9	+1.9 to -0.9	130 ft
MW-AH16	49.8	51.4	50.5	+1.6 to +0.7	180 ft
MW-AM16	44.6	46.5	45.7	+1.9 to +1.1	200 ft
PZ-AE16	48.1	51.6	49.3	+3.5 to +1.2	230 ft

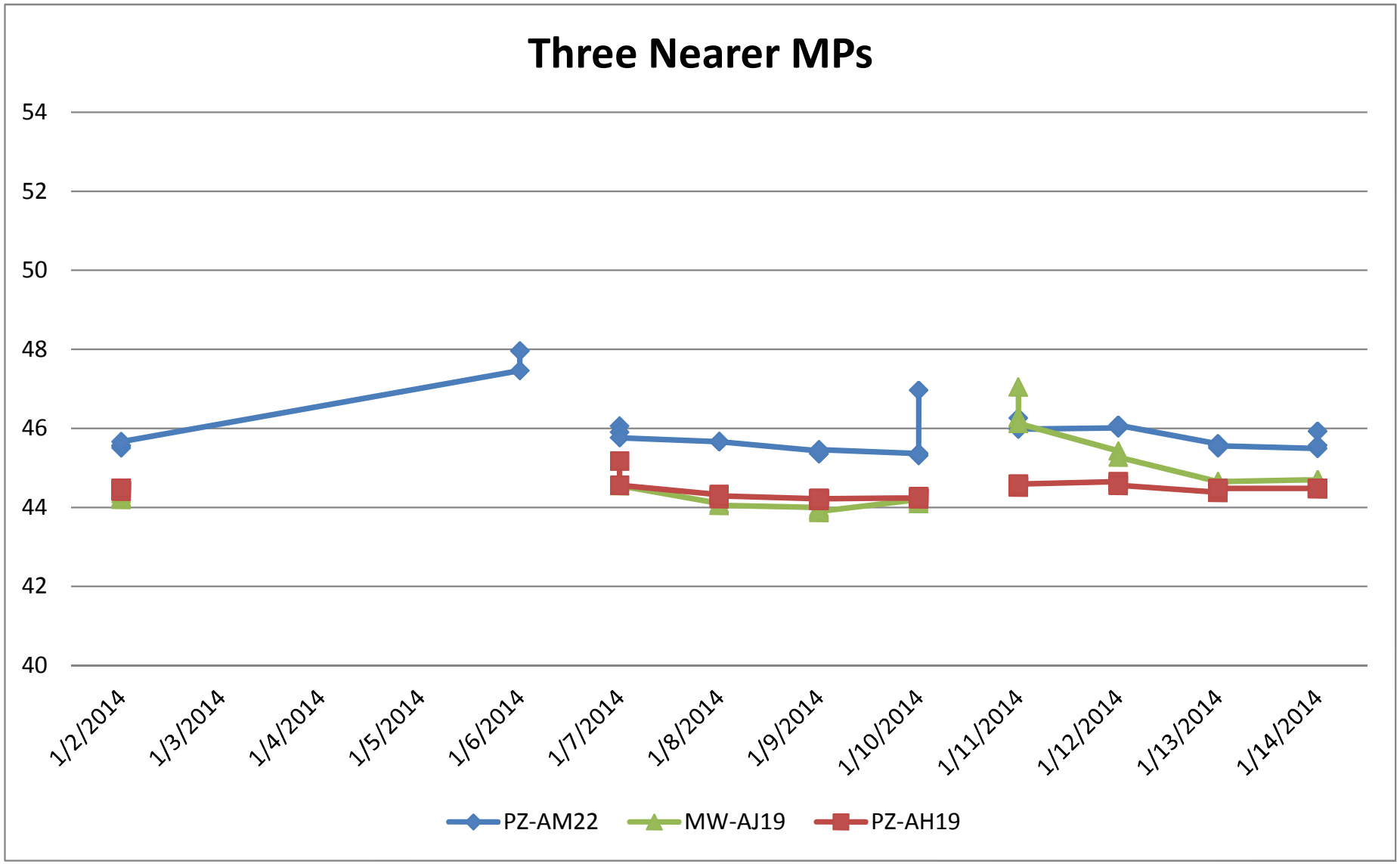
*See note for table above.

Summary of Observations

In general, groundwater levels rose sharply during periods of heavy rainfall at the site, for example on January 6, 10 to 11 and 14. Groundwater level *increases* of up to three feet were observed during periods of heavy rain. Measured water levels at the monitoring points generally decreased in the days that followed heavy rainfalls.

On January 14, 2014, the elevation of standing water in the excavation was about 42.5 feet. The "action triggers" set forth in GZA and AMEC's December 30, 2013 Excavation Dewatering Plan letter have not been exceeded.

Attachments: Two Graphs of GW Elevation Data cc: Matt Barvenik (GZA)


Three Nearer MPs
54
52
50
48
46
44
42
40
1/2/2014
1/3/2014
1/4/2014
1/5/2014
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1/7/2014
1/8/2014
1/9/2014
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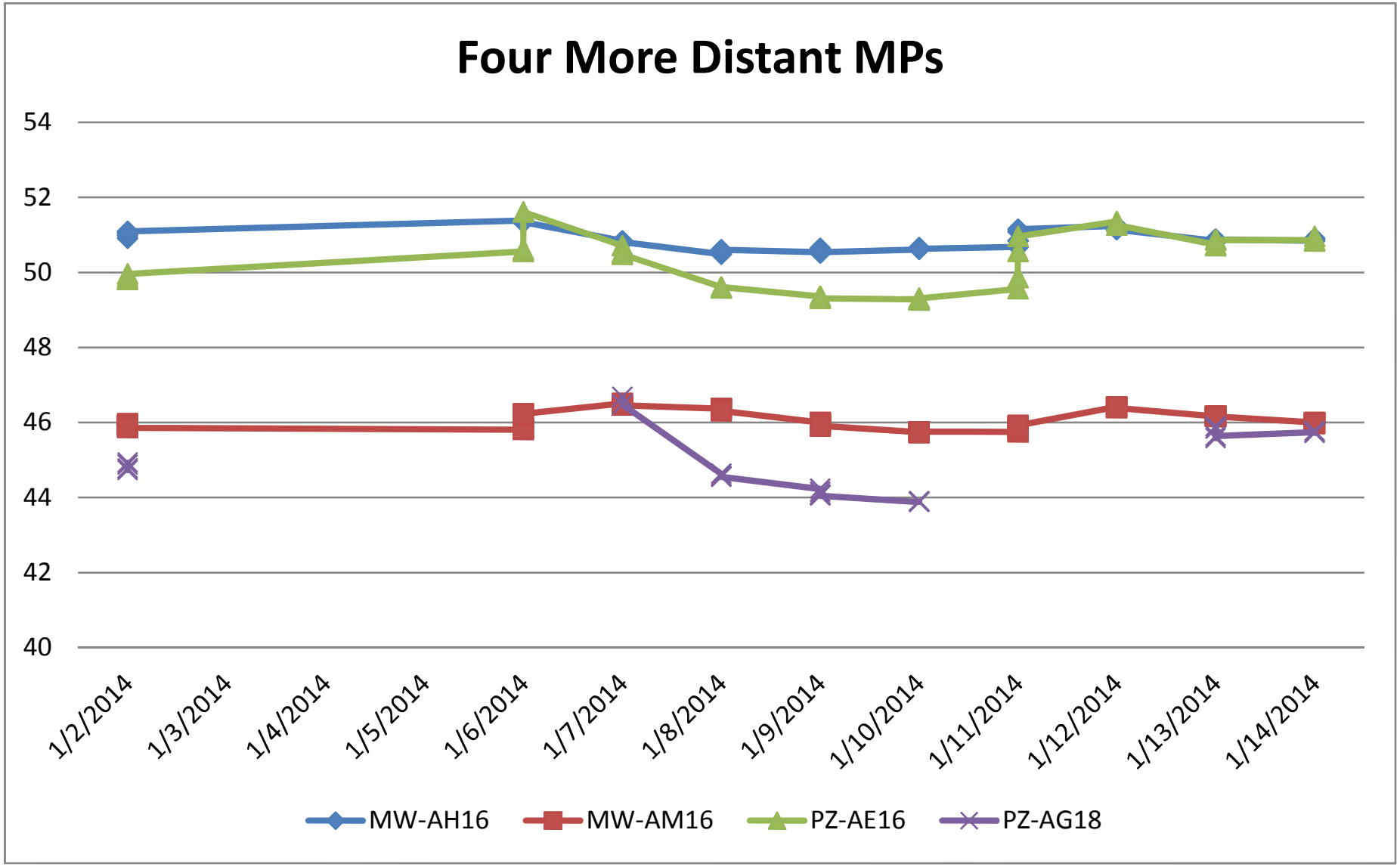
1/12/2014
1/13/2014
1/14/2014
PZ-AM22
MW-AJ19
PZ-AH19


Four More Distant MPs
54
52
50
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42
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1/2/2014
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1/7/2014
1/8/2014
1/9/2014
1/10/2014
1/11/2014
1/12/2014
1/13/2014
1/14/2014
MW-AH16
MW-AM16
PZ-AE16
PZ-AG18

AECOM

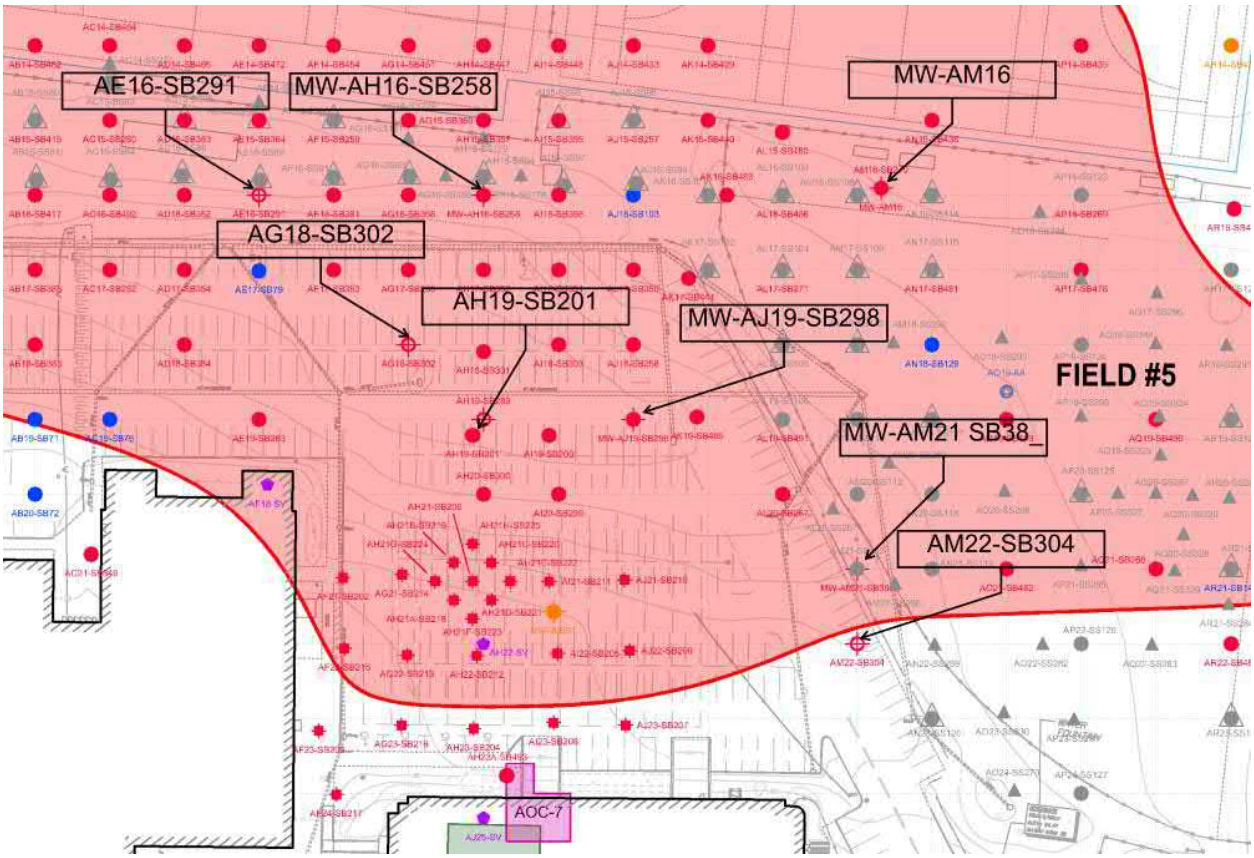
Groundwater Elevation Monitoring
MISA Construction Project

Greenwich High School
10 Hillside Road
Greenwich, Connecticut

DATE	TIME	MEASUREMENTS TO GRADE (FT)							
		AM 22	AM 21	AM 16	AH 16	AE 16	AG 18	AH 19	AJ 19
11/26/2013	8:45 AM	7.38	5.50	9.25	ND	6.25	ND	4.42	4.25
12/4/2013	3:00 PM	6.92	ND	8.58	1.75	4.67	3.42	4.25	4.08
12/11/2013	3:15 PM	6.50	ND	ND	ND	3.17	3.17	ND	ND
12/12/2014	3:00 PM	6.50	ND	ND	ND	3.17	3.50	4.08	3.58
12/16/2014	3:15 PM	6.25	ND	ND	1.82	2.50	3.17	3.17	3.17
12/18/2014	3:00 PM	6.17	ND	ND	1.92	2.92	ND	4.08	1.67
12/19/2014	3:00 PM	6.33	ND	ND	1.92	3.00	ND	1.33	3.50
12/27/2014	8:30 AM	6.00	ND	ND	1.42	2.75	3.25	4.00	4.10
12/27/2014	2:00 PM	6.05	ND	ND	1.45	2.70	3.25	4.00	4.00
12/30/2014	9:00 AM	5.35	ND	ND	ND	1.25	3.00	3.00	3.30
12/31/2013	1:00 PM	5.65	ND	ND	ND	2.00	3.25	3.50	4.00
1/1/2014	8:00 AM	5.85	ND	ND	0.85	2.65	3.50	4.00	4.00
1/1/2014	10:00 AM	5.85	ND	ND	0.88	2.65	3.50	4.10	4.10
1/1/2014	12:00 PM	5.85	ND	ND	0.84	2.65	3.45	4.10	4.05
1/1/2014	2:00 PM	5.80	ND	ND	0.83	2.60	3.45	4.06	4.05
1/1/2014	4:00 PM	5.85	ND	ND	0.81	2.60	3.42	4.05	4.05
1/2/2014	7:30 AM	5.85	ND	ND	0.68	2.60	3.35	4.00	3.90
1/2/2014	10:30 AM	5.90	ND	ND	0.61	2.60	3.30	4.00	3.85
1/2/2014	12:30 PM	5.85	ND	ND	0.55	2.53	3.20	4.00	3.85
1/2/2014	3:00 PM	5.75	ND	ND	0.50	2.45	3.15	3.93	3.75
1/6/2014	7:30 AM	3.95	ND	ND	0.21	1.85	ND	ND	ND
1/6/2014	12:00 PM	3.45	ND	ND	0.25	1.80	ND	ND	ND
1/6/2014	2:00 PM	ND	ND	ND	0.25	0.80	ND	ND	ND
1/7/2014	9:00 AM	5.35	ND	6.95	0.75	1.70	ND	ND	ND
1/7/2014	10:30 AM	5.51	ND	7.00	0.80	1.88	1.40	3.25	3.45
1/7/2014	1:00 PM	5.65	ND	7.00	0.78	1.93	1.60	3.86	3.55
1/8/2014	9:00 AM	5.75	ND	7.09	1.10	2.80	3.45	4.10	4.00
1/8/2014	11:00 AM	5.75	ND	7.10	1.01	2.83	3.50	4.20	4.05
1/8/2014	1:30 PM	5.75	ND	7.15	0.99	2.80	3.53	4.13	4.05
1/9/2014	7:00 AM	5.98	ND	7.46	1.05	3.05	3.85	4.20	4.10
1/9/2014	1:00 PM	6.05	ND	7.56	1.05	3.08	4.00	4.20	4.15
1/9/2014	3:00 PM	5.95	ND	7.55	1.05	3.10	4.03	4.20	4.20
1/10/2014	7:30 AM	6.05	ND	7.72	0.98	3.13	4.20	4.18	3.90
1/10/2014	9:30 AM	6.10	ND	7.72	0.96	3.15	4.18	4.20	4.00
1/10/2014	1:30 PM	4.45	ND	7.72	0.90	3.10	ND	4.15	ND
1/11/2014	7:00 AM	ND	ND	7.71	0.91	2.85	ND	ND	ND
1/11/2014	10:00 AM	ND	ND	7.64	0.75	2.55	ND	3.91	1.04
1/11/2014	12:00 PM	5.15	ND	7.58	0.51	1.85	ND	3.88	1.82
1/12/2014	7:00 AM	5.40	ND	7.04	0.35	1.05	ND	3.77	2.67
1/12/2014	9:30 AM	5.33	ND	7.07	0.45	1.15	ND	3.86	2.83
1/13/2014	7:30 AM	5.80	ND	7.30	0.75	1.67	2.19	4.04	3.45
1/13/2014	10:00 AM	5.90	ND	7.30	0.78	1.70	2.50	4.03	3.50
1/13/2014	1:30 PM	5.85	ND	7.30	0.71	1.55	2.44	3.94	3.45
1/14/2014	7:00 AM	5.92	ND	7.46	0.75	1.55	2.34	3.93	3.40
1/14/2014	9:30 AM	5.48	ND	7.49	0.69	1.45	2.31	3.94	3.40

DATE	TIME	MEASUREMENTS TO GRADE (FT)							
		AM 22	AM 21	AM 16	AH 16	AE 16	AG 18	AH 19	AJ 19
1/14/2014	12:30 PM	4.40	ND	ND	0.65	1.27	2.33	3.89	3.35
1/15/2014	7:30 AM	5.35	ND	7.26	0.64	1.13	2.49	3.81	3.15
1/15/2014	11:30 AM	5.86	ND	7.26	0.70	1.26	2.48	3.96	3.41
1/15/2014	3:00 PM	5.85	ND	ND	0.64	1.24	2.42	3.84	3.41
1/16/2014	7:30 AM	6.00	ND	7.45	0.64	1.50	2.57	3.91	3.49
1/16/2014	3:30 PM	6.08	ND	ND	0.59	1.60	2.59	3.92	3.40
1/17/2014	7:00 AM	6.30	ND	7.71	0.67	2.05	2.77	3.98	3.61
1/17/2014	3:15 PM	6.41	ND	ND	0.69	2.05	2.75	3.95	3.50
1/18/2014	7:30 AM	6.70	ND	8.09	0.70	2.10	2.81	3.90	3.41
1/18/2014	10:00 AM	6.70	ND	8.11	0.70	2.07	2.74	3.89	3.40
1/18/2014	12:00 PM	6.50	ND	8.10	0.67	1.65	2.26	3.92	1.39
1/19/2014	8:00 AM	6.55	ND	8.10	0.72	1.95	2.64	3.90	3.41
1/19/2014	10:00 AM	6.68	ND	8.10	0.62	2.03	2.65	3.92	3.43
1/20/2014	7:30 AM	6.70	ND	8.19	0.51	2.22	2.89	3.93	3.40
1/20/2014	3:00 PM	6.85	ND	8.27	0.55	2.25	2.84	3.93	3.36
1/21/2014	7:30 AM	7.05	ND	8.51	0.81	2.65	3.10	4.08	3.63
1/21/2014	10:00 AM	7.10	ND	8.55	0.84	2.70	3.12	4.10	3.71
1/21/2014	12:00 PM	7.10	ND	8.55	0.83	2.68	2.89	4.08	3.69
1/21/2014	3:00 PM	ND	ND	8.57	0.74	2.60	2.40	4.01	3.66
1/22/2014	8:00 AM	ND	ND	ND	0.69	2.60	2.41	4.02	3.58
1/22/2014	2:15 PM	7.25	ND	ND	0.70	2.65	2.36	4.00	3.45
1/23/2014	7:30 AM	7.40	ND	8.87	0.90	2.92	2.90	4.13	3.60
1/23/2014	3:15 PM	7.49	ND	8.98	0.90	2.90	3.01	4.09	2.43
1/24/2014	7:30 AM	7.65	ND	9.11	1.09	3.10	3.47	4.18	3.40
1/24/2014	11:00 AM	7.68	ND	9.15	1.06	3.08	3.60	4.16	3.55
1/24/2014	3:15 PM	7.80	ND	9.30	0.99	2.95	3.64	4.07	3.59
1/27/2014	7:30 AM	8.12	ND	9.80	0.63	2.95	3.44	4.01	3.54
1/27/2014	3:15 PM	8.35	ND	9.91	0.64	3.12	3.25	4.04	3.55
1/28/2014	7:30 AM	8.70	ND	10.10	1.16	3.50	3.41	4.24	3.96
1/28/2014	2:30 PM	8.85	ND	10.12	1.11	3.40	3.71	4.14	4.04
1/29/2014	7:30 AM	8.80	ND	10.30	1.00	3.35	3.87	4.09	3.95
1/29/2014	3:45 PM	9.00	ND	10.37	0.98	3.34	4.20	4.04	3.88
1/30/2014	7:30 AM	9.05	ND	10.45	1.23	3.73	4.15	4.19	4.09
1/30/2014	11:30 AM	8.96	ND	10.48	1.24	3.73	4.15	4.19	4.14
1/30/2014	3:30 PM	8.76	ND	10.51	1.15	3.60	4.09	4.13	4.10
1/31/2014	7:30 AM	8.90	ND	10.70	0.98	3.65	4.04	4.08	3.93
1/31/2014	1:45 PM	8.94	ND	10.73	1.19	3.53	4.06	4.08	4.00
2/3/2014	7:30 AM	8.65	ND	11.32	1.03	3.33	1.64	4.06	3.30
2/3/2014	2:30 PM	8.40	ND	11.35	1.02	3.10	1.71	3.85	3.40
2/4/2014	7:30 AM	8.32	ND	11.46	1.17	3.20	1.53	3.94	3.37
2/4/2014	3:30 PM	8.20	ND	ND	1.16	3.05	1.54	3.80	0.50
2/6/2014	8:45 AM	10.15	ND	ND	0.81	2.90	1.80	3.63	2.04
2/6/2014	3:45 PM	10.50	ND	ND	1.05	2.70	1.69	3.57	1.20
2/7/2014	8:00 AM	10.60	ND	11.98	1.10	2.70	2.16	3.58	2.94
2/7/2014	3:15 PM	10.78	ND	11.98	1.00	2.60	2.21	3.55	2.50

DATE	TIME	MEASUREMENTS TO GRADE (FT)							
		AM 22	AM 21	AM 16	AH 16	AE 16	AG 18	AH 19	AJ 19
2/10/2014	7:30 AM	10.47	ND	ND	0.85	2.85	2.69	3.55	3.38
2/10/2014	3:15 PM	10.80	ND	ND	0.92	2.80	2.16	3.46	3.42
2/11/2014	8:15 AM	10.80	ND	12.32	1.13	3.05	2.27	3.55	3.62
2/11/2014	3:15 PM	10.66	ND	ND	1.10	2.98	2.27	3.56	3.61
2/12/2014	8:00 AM	10.70	ND	12.38	1.26	3.18	2.50	3.64	3.81
2/12/2014	3:00 PM	10.70	ND	12.37	1.19	3.10	2.60	3.58	3.81
2/14/2014	8:30 AM	9.22	ND	ND	0.45	1.85	1.79	3.39	0.53
2/14/2014	3:15 PM	ND	ND	12.46	0.50	1.70	1.77	3.35	0.51
2/17/2014	7:30 AM	9.41	ND	12.52	0.81	2.25	1.79	3.53	3.23
2/17/2014	2:45 PM	9.58	ND	12.51	1.20	2.30	1.68	3.47	2.05
2/18/2014	9:00 AM	9.50	ND	12.50	0.99	2.15	1.52	3.38	2.69
2/19/2014	8:00 AM	8.55	ND	12.50	0.90	2.30	1.69	3.40	3.01
2/19/2014	3:20 PM	ND	ND	ND	0.80	1.58	1.51	3.35	1.56
2/20/2014	8:00 AM	7.95	ND	12.50	0.93	1.60	1.61	3.28	2.58
2/20/2014	2:00 PM	9.95	ND	ND	1.11	1.35	1.54	3.33	0.77
2/21/2014	8:30 AM	9.35	ND	12.38	1.12	0.95	1.50	3.27	0.83
2/21/2014	2:00 PM	ND	ND	12.35	0.95	0.75	1.49	3.25	0.65
2/24/2014	7:30 AM	8.82	ND	12.16	0.92	0.90	1.54	3.24	ND
2/24/2014	2:15 PM	7.80	ND	12.11	0.80	1.03	1.50	3.27	2.32
2/25/2014	10:15 AM	8.80	ND	12.15	0.90	1.25	1.50	3.48	3.05
2/25/2014	3:30 PM	8.40	ND	ND	0.81	1.25	1.44	3.46	2.98
2/26/2014	3:00 PM	8.12	ND	12.20	0.72	1.60	1.60	3.53	3.12
2/27/2014	9:00 AM	8.00	ND	12.22	0.65	2.00	2.41	3.58	3.15
2/27/2014	3:30 PM	7.95	ND	ND	0.62	2.10	2.31	3.58	3.17
2/28/2014	9:00 AM	8.38	ND	12.45	1.18	2.75	3.25	3.83	3.61
	Avg.	7.27		9.45	0.88	2.44	2.73	3.83	3.25
	Med.	6.70		8.87	0.85	2.60	2.72	3.93	3.45
	Max.	10.80		12.52	1.92	6.25	4.20	4.42	4.25
	Min.	3.45		6.95	0.21	0.75	1.40	1.33	0.50
	Range	7.35		5.57	1.71	5.50	2.80	3.09	3.75
	Std. Dev.	1.74		2.01	0.31	0.85	0.83	0.39	0.92



DATE	TIME	MEASUREMENTS TO GRADE (FT)							
		AM 22	AM 21	AM 16	AH 16	AE 16	AG 18	AH 19	AJ 19
4/29/2014	3:00 PM	7.75	ND	ND	1.45	3.25	2.66	3.60	3.40
5/1/2014	8:00 AM	4.85	ND	6.25	1.10	0.65	1.44	ND	ND
5/1/2014	2:00 PM	4.20	ND	5.73	0.89	0.88	1.56	ND	ND
5/2/2014	9:00 AM	3.95	ND	5.47	0.90	1.25	2.05	ND	1.90
5/2/2014	3:00 PM	4.13	ND	ND	0.92	1.35	2.11	3.20	2.62
5/5/2014	7:30 AM	4.68	ND	6.31	1.03	2.45	1.93	3.30	3.02
5/5/2014	2:30 PM	5.15	ND	6.37	1.00	2.45	ND	3.40	3.00
5/6/2014	7:15 AM	5.60	ND	6.84	1.10	2.60	ND	3.60	3.10
5/6/2014	3:15 PM	5.75	ND	6.95	1.06	2.60	ND	3.70	3.10
5/7/2014	7:00 AM	6.30	ND	7.52	1.29	2.97	2.14	3.90	3.25
5/7/2014	3:00 PM	6.45	ND	ND	1.25	2.95	2.24	3.85	3.30
5/8/2014	8:00 AM	6.32	ND	7.81	1.25	3.02	1.39	3.83	ND
5/8/2014	2:45 AM	6.27	ND	ND	1.25	2.75	1.48	3.78	ND
5/9/2014	10:00 AM	6.40	ND	8.15	1.25	2.60	1.34	3.77	ND
5/9/2014	3:15 PM	6.47	ND	ND	1.20	2.37	1.44	3.77	ND
5/12/2014	7:00 AM	6.67	ND	8.69	1.20	2.45	1.47	3.80	3.05
5/12/2014	3:30 PM	6.70	ND	ND	1.16	2.45	1.43	3.80	3.05
5/13/2014	7:00 AM	6.85	ND	8.95	1.27	2.67	1.66	3.85	3.15
5/13/2014	3:00 PM	6.95	ND	8.99	1.29	2.77	1.74	3.85	3.20
5/14/2014	7:00 AM	7.05	ND	9.13	1.37	2.98	2.05	3.85	3.25
5/14/2014	3:00 PM	7.10	ND	ND	1.30	2.95	2.14	3.78	3.20
5/15/2014	9:30 AM	7.05	ND	9.27	1.28	3.02	1.74	3.75	3.17
5/15/2014	3:00 PM	6.97	ND	ND	1.29	3.00	1.43	3.75	3.15

Groundwater Analytical Data
MW-AH16 and MW-AJ19

Greenwich High School
10 Hillside Road
Greenwich, Connecticut

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-AH16 MW-AH16-021413-1 2/14/2013 SB64588	MW-AH16 MW-AH16-051613-1 5/16/2013 SB69757	MW-AH16 MW-AH16-08212013-1 8/21/2013 SB75423	MW-AH16 MW-AH16-11142013-1 11/14/2013 SB80319	MW-AH16 MW-AH16-11212013-1 11/21/2013 13K0911	MW-AH16 MW-AH16-01312014-1 1/31/2014 14A0917	MW-AH16 MW-AH16-04172014-1 4/17/2014 SB87951	MW-AH16 MW-AH16-092514-1 9/25/2014 14090859	MW-AH16 MW-AH16-121814-1 12/18/2014 SC01493
PCB Homologs (ug/L)											
Dichlorobiphenyl	NE	NE	**41.3**	**50**	**48.8**	**47.4**	**42**	**3.5**	**33.1**	**46.7**	**0.0181**
Monochlorobiphenyl	NE	NE	**33.9**	**45.8**	**47**	**47.8**	**52**	**4.4**	**34.5**	**33.4**	<0.005
Tetrachlorobiphenyl	NE	NE	<0.1	<0.2	<0.1	<0.2	**0.62**	**0.27**	**0.99**	**1.67**	<0.01
Trichlorobiphenyl	NE	NE	**8.57**	**9.58**	**8.74**	**6.98**	**6.2**	**0.68**	**56.3**	**12.7**	<0.005
Total PCB Homologues	0.5	0.5	**83.8**	**105**	**105**	**102**	**100**	**8.6**	**125**	**94.4**	**0.0181**

Notes:
This is a summary table. Only detected compounds are presented.
Bold = Detected above reporting limit
Orange highlighted cells exceed GWPC.
Yellow highlighted cells exceed SWPC.
<0.01 = Not detected above the specified laboratory reporting limit
GWPC = 2013 Ground water protection criteria.
SWPC = 2013 Surface water protection criteria.
NE = Criteriion has not been established
ug/L = microgram per liter

Groundwater Analytical Data
MW-AH16 and MW-AJ19

Greenwich High School
10 Hillside Road
Greenwich, Connecticut

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-AH16R MW-AH16R-011316 1/13/2016 16010232	MW-AH16R MW-AH16R-041316 4/13/2016 16040311	MW-AJ19 MW-AJ19-021213-1 2/12/2013 SB64419	MW-AJ19 MW-AJ19-051613-1 5/16/2013 SB69757	MW-AJ19 MW-AJ19-08212013-1 8/21/2013 SB75529	MW-AJ19 MW-AJ19-11072013-1 11/7/2013 13K0301	MW-AJ19 MW-AJ19-11142013-1 11/14/2013 SB80319	MW-AJ19 MW-AJ19-11212013-1 11/21/2013 13K0911	MW-AJ19 MW-AJ19-12312013-1 12/31/2013 13L1090
PCB Homologs (ug/L)											
Dichlorobiphenyl	NE	NE	**4.18**	**15.1**	<0.005	<0.005	<0.005	**0.0027**	<0.00556	**0.0062**	<0.001
Monochlorobiphenyl	NE	NE	**4.49**	**19.8**	<0.005	<0.005	<0.005	<0.001	<0.00556	**0.006**	<0.001
Tetrachlorobiphenyl	NE	NE	**0.158**	**0.119**	<0.01	<0.01	<0.01	**0.0044**	<0.0111	**0.012**	**0.015**
Trichlorobiphenyl	NE	NE	**1.37**	**2.56**	<0.005	<0.005	<0.005	**0.0026**	<0.00556	**0.0094**	**0.0034**
Total PCB Homologues	0.5	0.5	**10.2**	**37.6**	<0.025	<0.025	<0.025	**0.0097**	<0.0278	**0.034**	**0.016**

Notes:
This is a summary table. Only detected compounds are presented.
Bold = Detected above reporting limit
Orange highlighted cells exceed GWPC.
Yellow highlighted cells exceed SWPC.
<0.01 = Not detected above the specified laboratory reporting limit
GWPC = 2013 Ground water protection criteria.
SWPC = 2013 Surface water protection criteria.
NE = Criteriion has not been established
ug/L = microgram per liter

AECOM

Groundwater Analytical Data
MW-AH16 and MW-AJ19

Greenwich High School
10 Hillside Road
Greenwich, Connecticut

Location ID Sample ID Sample Date SDG	GWPC	SWPC	MW-AJ19 MW-AJ19-01312014-1 1/31/2014 14A0917	MW-AJ19 MW-AJ19-04182014-1 4/18/2014 SB87951	MW-AJ19 MW-AJ19-092514-1 9/25/2014 14090859	MW-AJ19 MW-AJ19-011316 1/13/2016 16010232	MW-AJ19 MW-AJ19-041416 4/14/2016 16040313
PCB Homologs (ug/L)							
Dichlorobiphenyl	NE	NE	**2.6**	<0.005	<0.005	<0.00505	<0.005
Monochlorobiphenyl	NE	NE	**3**	<0.005	<0.005	<0.00505	<0.005
Tetrachlorobiphenyl	NE	NE	**0.1**	<0.01	<0.01	<0.0101	<0.01
Trichlorobiphenyl	NE	NE	**0.39**	<0.005	<0.005	<0.00505	<0.005
Total PCB Homologues	0.5	0.5	**6.1**	<0.025	<0.025	<0.0253	<0.025

Notes:
This is a summary table. Only detected compounds are presented.
Bold = Detected above reporting limit
Orange highlighted cells exceed GWPC.
Yellow highlighted cells exceed SWPC.
<0.01 = Not detected above the specified laboratory reporting limit
GWPC = 2013 Ground water protection criteria.
SWPC = 2013 Surface water protection criteria.
NE = Criteriion has not been established
ug/L = microgram per liter

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ANALYTICAL LABORATORY
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October 25, 2013

Bob Dwyer
AMEC - Norwalk CT
270 Main Avenue
Norwalk, CT 06851

Project Location: 10 Hllside Rd Greenwich CT
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 13J0944

Enclosed are results of analyses for samples received by the laboratory on October 24, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

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

AMEC - Norwalk CT
270 Main Avenue
Norwalk, CT 06851
ATTN: Bob Dwyer

REPORT DATE: 10/25/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13J0944

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

PROJECT LOCATION: 10 Hllside Rd Greenwich CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
001	13J0944-01	Ground Water		SW-846 8082A	

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

CASE NARRATIVE SUMMARY

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

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

Daren J. Damboragian
Laboratory Manager

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

Project Location: 10 Hllside Rd Greenwich CT | Sample Description: | Work Order: 13J0944

Date Received: 10/24/2013

Field Sample #: 001 | Sampled: 10/24/2013 11:10

Sample ID: 13J0944-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.21	µg/L	1		SW-846 8082A	10/24/13	10/25/13 11:22	PJG
Aroclor-1221 [1]	ND	0.21	µg/L	1		SW-846 8082A	10/24/13	10/25/13 11:22	PJG
Aroclor-1232 [1]	ND	0.21	µg/L	1		SW-846 8082A	10/24/13	10/25/13 11:22	PJG
Aroclor-1242 [1]	ND	0.21	µg/L	1		SW-846 8082A	10/24/13	10/25/13 11:22	PJG
Aroclor-1248 [1]	ND	0.21	µg/L	1		SW-846 8082A	10/24/13	10/25/13 11:22	PJG
Aroclor-1254 [1]	ND	0.21	µg/L	1		SW-846 8082A	10/24/13	10/25/13 11:22	PJG
Aroclor-1260 [1]	ND	0.21	µg/L	1		SW-846 8082A	10/24/13	10/25/13 11:22	PJG
Aroclor-1262 [1]	ND	0.21	µg/L	1		SW-846 8082A	10/24/13	10/25/13 11:22	PJG
Aroclor-1268 [1]	ND	0.21	µg/L	1		SW-846 8082A	10/24/13	10/25/13 11:22	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.4	30-150		10/25/13 11:22
Decachlorobiphenyl [2]	58.4	30-150		10/25/13 11:22
Tetrachloro-m-xylene [1]	90.0	30-150		10/25/13 11:22
Tetrachloro-m-xylene [2]	87.1	30-150		10/25/13 11:22

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13J0944-01 [001]	B083590	950	10.0	10/24/13

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B083590 - SW-846 3510C										
Blank (B083590-BLK1)				Prepared: 10/24/13 Analyzed: 10/25/13						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.79*		µg/L	2.00		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.88*		µg/L	2.00		93.8	30-150			
Surrogate: Tetrachloro-m-xylene	*1.79*		µg/L	2.00		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.71*		µg/L	2.00		85.3	30-150			
LCS (B083590-BS1)				Prepared: 10/24/13 Analyzed: 10/25/13						
Aroclor-1016	0.47	0.20	µg/L	0.500		94.8	40-140			
Aroclor-1016 [2C]	0.41	0.20	µg/L	0.500		82.1	40-140			
Aroclor-1260	0.46	0.20	µg/L	0.500		91.1	40-140			
Aroclor-1260 [2C]	0.41	0.20	µg/L	0.500		82.9	40-140			
Surrogate: Decachlorobiphenyl	*1.68*		µg/L	2.00		84.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.77*		µg/L	2.00		88.5	30-150			
Surrogate: Tetrachloro-m-xylene	*1.74*		µg/L	2.00		87.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.66*		µg/L	2.00		83.2	30-150			
LCS Dup (B083590-BSD1)				Prepared: 10/24/13 Analyzed: 10/25/13						
Aroclor-1016	0.48	0.20	µg/L	0.500		95.3	40-140	0.534	20	
Aroclor-1016 [2C]	0.42	0.20	µg/L	0.500		84.2	40-140	2.61	20	
Aroclor-1260	0.46	0.20	µg/L	0.500		91.5	40-140	0.438	20	
Aroclor-1260 [2C]	0.42	0.20	µg/L	0.500		84.8	40-140	2.18	20	
Surrogate: Decachlorobiphenyl	*1.58*		µg/L	2.00		79.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.67*		µg/L	2.00		83.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.67*		µg/L	2.00		83.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.61*		µg/L	2.00		80.7	30-150			

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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.

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CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

CHAIN OF CUSTODY RECORD

13J0944

Rev 04.05.12

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

Page ____ of ____

Company Name: AMEC Construction
Address: 270 Main Ave
Norwalk CT
Attention: Bob Dwyer
Project Location: 10 Hillside Rd Greenwich CT
Sampled By:

Telephone: 203-952-7118 Cell
Project # Greenwich High
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #
Email:
Format: ○ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

P.O.

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code
01	001	11:10 AM	11:10 AM		✓	GW	A

ANALYSIS REQUESTED

# of Containers												
** Preservation												
***Container Code												
	✓											

Dissolved Metal
○ Field Filtered
○ Lab to Filter

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

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfat
X = Na hydroxide
T = Na thiosulfate
O = Other____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other____

Page 9 of 11 13J0944_1 Contest_Final 10 25 13 1427 10/25/13 14:27:52

Comments:

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

Relinquished by: (signature) Robert P Dwyer	11:15 AM	Date/Time: 10/24/13
Relinquished by: (signature)	11:15 AM	Date/Time: 10/24/13
Relinquished by: (signature)	2:45	Date/Time: 10/24/13
Received by: (signature) Rebecca Dunst	5.6°C 1445	Date/Time: 10/24/13

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☑ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

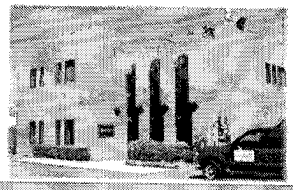
NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

†† 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 IS 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

con-test ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: AMEC RECEIVED BY: RLF DATE: 10/24/13

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 [4] Direct from Sampling [ ] Ambient [ ] In Cooler(s) [1]

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 5.6°C

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:** 19

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)	4	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 _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
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.	N/A	
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 requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	N/A	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	N/A	
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 10/24/13 1445

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

November 4, 2013

Bob Dwyer
AMEC - Norwalk CT
270 Main Avenue
Norwalk, CT 06851

Project Location: Greenwich HS
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 13J1196

Enclosed are results of analyses for samples received by the laboratory on October 30, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

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

AMEC - Norwalk CT
270 Main Avenue
Norwalk, CT 06851
ATTN: Bob Dwyer

REPORT DATE: 11/4/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13J1196

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

PROJECT LOCATION: Greenwich HS

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
002	13J1196-01	Ground Water		SW-846 8082A	

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

CASE NARRATIVE SUMMARY

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

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

Daren J. Damboragian
Laboratory Manager

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

Project Location: Greenwich HS | Sample Description: | Work Order: 13J1196

Date Received: 10/30/2013

Field Sample #: 002 | Sampled: 10/30/2013 11:38

Sample ID: 13J1196-01

Sample Matrix: Ground 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	11/1/13	11/4/13 11:17	MJC
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	11/1/13	11/4/13 11:17	MJC
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	11/1/13	11/4/13 11:17	MJC
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	11/1/13	11/4/13 11:17	MJC
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	11/1/13	11/4/13 11:17	MJC
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	11/1/13	11/4/13 11:17	MJC
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	11/1/13	11/4/13 11:17	MJC
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	11/1/13	11/4/13 11:17	MJC
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	11/1/13	11/4/13 11:17	MJC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.0	30-150		11/4/13 11:17
Decachlorobiphenyl [2]	94.4	30-150		11/4/13 11:17
Tetrachloro-m-xylene [1]	86.1	30-150		11/4/13 11:17
Tetrachloro-m-xylene [2]	92.2	30-150		11/4/13 11:17

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13J1196-01 [002]	B084172	1000	10.0	11/01/13

con-test® ANALYTICAL LABORATORY

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 Limit	Notes
Batch B084172 - SW-846 3510C										
Blank (B084172-BLK1)				Prepared: 11/01/13 Analyzed: 11/04/13						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.73*		µg/L	2.00		86.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.83*		µg/L	2.00		91.5	30-150			
Surrogate: Tetrachloro-m-xylene	*1.69*		µg/L	2.00		84.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.79*		µg/L	2.00		89.5	30-150			
LCS (B084172-BS1)				Prepared: 11/01/13 Analyzed: 11/04/13						
Aroclor-1016	0.42	0.20	µg/L	0.500		84.6	40-140			
Aroclor-1016 [2C]	0.45	0.20	µg/L	0.500		89.6	40-140			
Aroclor-1260	0.43	0.20	µg/L	0.500		85.5	40-140			
Aroclor-1260 [2C]	0.44	0.20	µg/L	0.500		88.7	40-140			
Surrogate: Decachlorobiphenyl	*1.87*		µg/L	2.00		93.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.99*		µg/L	2.00		99.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.71*		µg/L	2.00		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.82*		µg/L	2.00		90.9	30-150			
LCS Dup (B084172-BSD1)				Prepared: 11/01/13 Analyzed: 11/04/13						
Aroclor-1016	0.40	0.20	µg/L	0.500		79.2	40-140	6.60	20	
Aroclor-1016 [2C]	0.43	0.20	µg/L	0.500		86.9	40-140	3.06	20	
Aroclor-1260	0.40	0.20	µg/L	0.500		79.7	40-140	6.96	20	
Aroclor-1260 [2C]	0.42	0.20	µg/L	0.500		83.5	40-140	5.94	20	
Surrogate: Decachlorobiphenyl	*1.69*		µg/L	2.00		84.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.81*		µg/L	2.00		90.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.53*		µg/L	2.00		76.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.63*		µg/L	2.00		81.5	30-150			

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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.

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CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

CHAIN OF CUSTODY RECORD

13J1196

Rev 04.05.12

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

Page ____ of ____

Company Name: Amec Construction
Address: 270 Main Ave
Norwalk, CT 06851
Attention: Bob Dwyer
Project Location: Greenwich HS.
Sampled By: John Bossey

Telephone: 642-350
Project #
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #
Email:
Format: ○ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCB	# of Containers	** Preservation	***Container Code	Dissolved Metals: ○ Field Filtered ○ Lab to Filter
01	002	10/30 11:38	10/30 11:38		✓	GW	A	✓				

ANALYSIS REQUESTED

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

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfa
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Page 9 of 11 13J1196_1 Contest_Final 11 04 13 1629 11/04/13 16:30:20

Comments:

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

Relinquished by: (signature)	Date/Time:
	10/30/13 11:40
Received by: (signature)	Date/Time:
	10/30/13 11:40
Relinquished by: (signature)	Date/Time:
	10/30/13 4 PM
Received by: (signature)	Date/Time:
Rebecca Jewett 3.8°C Noise	10/30/13

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

†† 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 IS 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

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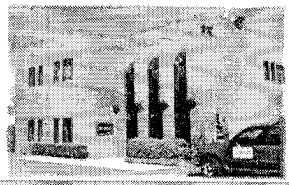

Sample Receipt Checklist

CLIENT NAME: AMEC RECEIVED BY: RLF DATE: 10/30/13

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 3.8°C

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:** 19

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	1	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 _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
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 requsted 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:** RLF 10/30/13 1656 **Date/Time:**

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

November 8, 2013

Bob Dwyer
AMEC - Norwalk CT
270 Main Avenue
Norwalk, CT 06851

Project Location: Greenwich H.S.
Client Job Number:
Project Number: Greenwich H.S.
Laboratory Work Order Number: 13J1246

Enclosed are results of analyses for samples received by the laboratory on October 31, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

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

AMEC - Norwalk CT
270 Main Avenue
Norwalk, CT 06851
ATTN: Bob Dwyer

REPORT DATE: 11/8/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: Greenwich H.S.

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13J1246

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

PROJECT LOCATION: Greenwich H.S.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Effluent	13J1246-01	Water		EPA 1664A/B	
				EPA 200.7	
				EPA 245.1	
				EPA 420.1	
				EPA 608	
				EPA 624	
				EPA 625	
				SM18-20 3500 Cr B/D	
				SM18-20 4500 CN E	
				SM18-20 4500 CN G	
				SW-846 8151A	

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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.

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EPA 625

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

2-Chloronaphthalene, Pyrene

13J1246-01[Effluent], B084567-BLK1, B084567-BS1, B084567-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Fluorene

B084567-BSD1

Surrogate recovery is outside of control limits. Data validation is not affected since all results are less than the reporting limit and bias is on the high side.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol

B084567-BLK1

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

Analyte & Samples(s) Qualified:

Benzidine, Benzo(g,h,i)perylene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene

13J1246-01[Effluent], B084567-BLK1, B084567-BS1, B084567-BSD1

SM18-20 4500 CN E

Qualifications:

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

Cyanide

13J1246-01[Effluent], B084300-MSD1

SW-846 8151A

Qualifications:

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

Analyte & Samples(s) Qualified:

Dalapon [2C], Dicamba [2C]

B084562-BS1, B084562-BSD1

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

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: Greenwich H.S. Sample Description: Work Order: 13J1246

Date Received: 10/31/2013

Field Sample #: Effluent Sampled: 10/31/2013 12:15

Sample ID: 13J1246-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
Bromoform	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
Bromomethane	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
Chloroethane	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
Chloroform	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
Chloromethane	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
Toluene	ND	1.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
1,1,1-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
m+p Xylene	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH
o-Xylene	ND	2.0	µg/L	1		EPA 624	11/1/13	11/2/13 21:22	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.8	70-130		11/2/13 21:22
Toluene-d8	99.7	70-130		11/2/13 21:22
4-Bromofluorobenzene	100	70-130		11/2/13 21:22

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

Project Location: Greenwich H.S. Sample Description: Work Order: 13J1246

Date Received: 10/31/2013

Field Sample #: Effluent Sampled: 10/31/2013 12:15

Sample ID: 13J1246-01

Sample Matrix: Water

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Acenaphthylene	ND	5.0	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Anthracene	ND	5.0	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Benzidine	ND	20	µg/L	1	V-05	EPA 625	11/6/13	11/7/13 14:20	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1	V-05	EPA 625	11/6/13	11/7/13 14:20	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
4-Bromophenylphenylether	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Butylbenzylphthalate	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
4-Chloro-3-methylphenol	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Bis(2-chloroethyl)ether	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
2-Chloronaphthalene	ND	10	µg/L	1	L-04	EPA 625	11/6/13	11/7/13 14:20	BGL
2-Chlorophenol	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
4-Chlorophenylphenylether	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Chrysene	ND	5.0	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1	V-05	EPA 625	11/6/13	11/7/13 14:20	BGL
Di-n-butylphthalate	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
1,3-Dichlorobenzene	ND	5.0	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
1,4-Dichlorobenzene	ND	5.0	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
1,2-Dichlorobenzene	ND	5.0	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
3,3-Dichlorobenzidine	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
2,4-Dichlorophenol	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Diethylphthalate	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
2,4-Dimethylphenol	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Dimethylphthalate	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
2,4-Dinitrophenol	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
2,4-Dinitrotoluene	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
2,6-Dinitrotoluene	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Di-n-octylphthalate	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Fluoranthene	ND	5.0	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Fluorene	ND	5.0	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Hexachlorobenzene	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Hexachlorobutadiene	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Hexachlorocyclopentadiene	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Hexachloroethane	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1	V-05	EPA 625	11/6/13	11/7/13 14:20	BGL
Isophorone	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL

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

Project Location: Greenwich H.S. Sample Description: Work Order: 13J1246

Date Received: 10/31/2013

Field Sample #: Effluent Sampled: 10/31/2013 12:15

Sample ID: 13J1246-01

Sample Matrix: Water

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	5.0	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Nitrobenzene	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
2-Nitrophenol	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
4-Nitrophenol	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
N-Nitrosodimethylamine	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
N-Nitrosodiphenylamine	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Pentachlorophenol	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Phenanthrene	ND	5.0	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Phenol	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
Pyrene	ND	5.0	µg/L	1	L-04	EPA 625	11/6/13	11/7/13 14:20	BGL
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL
2,4,6-Trichlorophenol	ND	10	µg/L	1		EPA 625	11/6/13	11/7/13 14:20	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	52.9	15-110		11/7/13 14:20
Phenol-d6	37.2	15-110		11/7/13 14:20
Nitrobenzene-d5	79.9	30-130		11/7/13 14:20
2-Fluorobiphenyl	75.3	30-130		11/7/13 14:20
2,4,6-Tribromophenol	109	15-110		11/7/13 14:20
p-Terphenyl-d14	101	30-130		11/7/13 14:20

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

Project Location: Greenwich H.S. | Sample Description: | Work Order: 13J1246

Date Received: 10/31/2013

Field Sample #: Effluent | Sampled: 10/31/2013 12:15

Sample ID: 13J1246-01

Sample Matrix: Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aldrin [1]	ND	0.050	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
alpha-BHC [1]	ND	0.050	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
beta-BHC [1]	ND	0.050	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
delta-BHC [1]	ND	0.050	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
gamma-BHC (Lindane) [1]	ND	0.030	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
Chlordane [1]	ND	0.20	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
4,4'-DDD [1]	ND	0.080	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
4,4'-DDE [1]	ND	0.040	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
4,4'-DDT [1]	ND	0.080	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
Dieldrin [1]	ND	0.0020	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
Endosulfan I [1]	ND	0.050	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
Endosulfan II [1]	ND	0.080	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
Endosulfan sulfate [1]	ND	0.080	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
Endrin [1]	ND	0.080	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
Endrin aldehyde [1]	ND	0.080	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
Endrin ketone [1]	ND	0.080	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
Heptachlor [1]	ND	0.050	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
Heptachlor epoxide [1]	ND	0.050	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
Methoxychlor [1]	ND	0.50	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG
Toxaphene [1]	ND	1.0	µg/L	1		EPA 608	11/6/13	11/7/13 13:04	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.2	30-150		11/7/13 13:04
Decachlorobiphenyl [2]	72.4	30-150		11/7/13 13:04
Tetrachloro-m-xylene [1]	75.9	30-150		11/7/13 13:04
Tetrachloro-m-xylene [2]	83.7	30-150		11/7/13 13:04

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Project Location: Greenwich H.S. Sample Description: Work Order: 13J1246

Date Received: 10/31/2013

Field Sample #: Effluent Sampled: 10/31/2013 12:15

Sample ID: 13J1246-01

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		EPA 608	11/6/13	11/7/13 10:58	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		EPA 608	11/6/13	11/7/13 10:58	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		EPA 608	11/6/13	11/7/13 10:58	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		EPA 608	11/6/13	11/7/13 10:58	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		EPA 608	11/6/13	11/7/13 10:58	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		EPA 608	11/6/13	11/7/13 10:58	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		EPA 608	11/6/13	11/7/13 10:58	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.5	30-150		11/7/13 10:58
Decachlorobiphenyl [2]	69.0	30-150		11/7/13 10:58
Tetrachloro-m-xylene [1]	73.1	30-150		11/7/13 10:58
Tetrachloro-m-xylene [2]	74.9	30-150		11/7/13 10:58

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Project Location: Greenwich H.S. Sample Description: Work Order: 13J1246

Date Received: 10/31/2013

Field Sample #: Effluent Sampled: 10/31/2013 12:15

Sample ID: 13J1246-01

Sample Matrix: Water

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	0.50	µg/L	1		SW-846 8151A	11/6/13	11/7/13 22:32	JMB
2,4,5-TP (Silvex) [1]	ND	0.050	µg/L	1		SW-846 8151A	11/6/13	11/7/13 22:32	JMB
2,4,5-T [1]	ND	0.10	µg/L	1		SW-846 8151A	11/6/13	11/7/13 22:32	JMB
Dalalpon [1]	ND	1.2	µg/L	1		SW-846 8151A	11/6/13	11/7/13 22:32	JMB
Dicamba [1]	ND	0.050	µg/L	1		SW-846 8151A	11/6/13	11/7/13 22:32	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2,4-Dichlorophenylacetic acid [1]	80.9	30-150		11/7/13 22:32	
2,4-Dichlorophenylacetic acid [2]	82.1	30-150		11/7/13 22:32	

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Project Location: Greenwich H.S. Sample Description: Work Order: 13J1246

Date Received: 10/31/2013

Field Sample #: Effluent Sampled: 10/31/2013 12:15

Sample ID: 13J1246-01

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	0.011	0.010	mg/L	1		EPA 200.7	10/31/13	11/4/13 14:49	OP
Barium	0.18	0.10	mg/L	1		EPA 200.7	10/31/13	11/4/13 14:49	OP
Beryllium	ND	0.0020	mg/L	1		EPA 200.7	10/31/13	11/4/13 14:49	OP
Cadmium	0.0015	0.0010	mg/L	1		EPA 200.7	11/2/13	11/4/13 12:34	OP
Calcium	150	0.50	mg/L	1		EPA 200.7	10/31/13	11/4/13 14:49	OP
Chromium	ND	0.0070	mg/L	1		EPA 200.7	10/31/13	11/4/13 14:49	OP
Cobalt	ND	0.010	mg/L	1		EPA 200.7	10/31/13	11/4/13 14:49	OP
Copper	0.084	0.0050	mg/L	1		EPA 200.7	10/31/13	11/4/13 14:49	OP
Lead	0.0087	0.0050	mg/L	1		EPA 200.7	11/2/13	11/4/13 18:33	OP
Magnesium	35	0.050	mg/L	1		EPA 200.7	10/31/13	11/4/13 14:49	OP
Mercury	ND	0.00010	mg/L	1		EPA 245.1	11/2/13	11/4/13 11:54	SAJ
Nickel	0.011	0.0050	mg/L	1		EPA 200.7	10/31/13	11/4/13 14:49	OP
Selenium	ND	0.050	mg/L	1		EPA 200.7	10/31/13	11/4/13 14:49	OP
Silver	ND	0.010	mg/L	1		EPA 200.7	11/5/13	11/5/13 12:35	OP
Thallium	ND	0.060	mg/L	1		EPA 200.7	10/31/13	11/4/13 14:49	OP
Tin	ND	0.20	mg/L	1		EPA 200.7	11/2/13	11/4/13 12:34	OP
Vanadium	ND	0.010	mg/L	1		EPA 200.7	10/31/13	11/4/13 14:49	OP
Zinc	0.048	0.010	mg/L	1		EPA 200.7	10/31/13	11/4/13 14:49	OP
Boron	0.28	0.10	mg/L	1		EPA 200.7	10/31/13	11/4/13 14:49	OP

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

Project Location: Greenwich H.S. Sample Description: Work Order: 13J1246

Date Received: 10/31/2013

Field Sample #: Effluent Sampled: 10/31/2013 12:15

Sample ID: 13J1246-01

Sample Matrix: Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	mg/L	1	R-06	SM18-20 4500 CN E	11/5/13	11/5/13 8:00	VLA
Cyanide (amenable)	ND	0.010	mg/L	1		SM18-20 4500 CN G	11/5/13	11/5/13 8:00	VLA
Hexavalent Chromium	ND	0.0040	mg/L	1		SM18-20 3500 Cr B/D	10/31/13	10/31/13 14:00	LL
Phenol	ND	0.050	mg/L	1		EPA 420.1	11/4/13	11/5/13 12:00	LL
Silica Gel Treated HEM (SGT-HEM)	ND	1.5	mg/L	1		EPA 1664A/B	11/1/13	11/1/13 12:30	LL

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Sample Extraction Data

EPA 1664A/B

Lab Number [Field ID]	Batch	Initial [mL]	Date
13J1246-01 [Effluent]	B084149	920	11/01/13

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13J1246-01 [Effluent]	B084135	50.0	50.0	10/31/13

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13J1246-01 [Effluent]	B084250	50.0	50.0	11/02/13

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13J1246-01RE1 [Effluent]	B084394	50.0	50.0	11/05/13

Prep Method: EPA 245.1-EPA 245.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13J1246-01 [Effluent]	B084244	6.00	6.00	11/02/13

EPA 420.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13J1246-01 [Effluent]	B084290	50.0	50.0	11/04/13

Prep Method: SW-846 3510C-EPA 608

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13J1246-01 [Effluent]	B084565	1000	10.0	11/06/13

Prep Method: SW-846 3510C-EPA 608

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13J1246-01 [Effluent]	B084566	1000	10.0	11/06/13

Prep Method: SW-846 5030B-EPA 624

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13J1246-01 [Effluent]	B084181	5	5.00	11/01/13

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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-EPA 625

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13J1246-01 [Effluent]	B084567	1000	1.00	11/06/13

SM18-20 3500 Cr B/D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13J1246-01 [Effluent]	B084209	50.0	50.0	10/31/13

SM18-20 4500 CN E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13J1246-01 [Effluent]	B084300	50.0	50.0	11/05/13

SM18-20 4500 CN G

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13J1246-01 [Effluent]	B084305	50.0	50.0	11/05/13

Prep Method: SW-846 3510C-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13J1246-01 [Effluent]	B084562	1000	5.00	11/06/13

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B084181 - SW-846 5030B										
Blank (B084181-BLK1)				Prepared: 11/01/13 Analyzed: 11/02/13						
Benzene	ND	1.0	µg/L							
Bromodichloromethane	ND	2.0	µg/L							
Bromoform	ND	2.0	µg/L							
Bromomethane	ND	2.0	µg/L							
Carbon Tetrachloride	ND	2.0	µg/L							
Chlorobenzene	ND	2.0	µg/L							
Chlorodibromomethane	ND	2.0	µg/L							
Chloroethane	ND	2.0	µg/L							
2-Chloroethyl Vinyl Ether	ND	10	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
1,2-Dichlorobenzene	ND	2.0	µg/L							
1,3-Dichlorobenzene	ND	2.0	µg/L							
1,4-Dichlorobenzene	ND	2.0	µg/L							
1,2-Dichloroethane	ND	2.0	µg/L							
1,1-Dichloroethane	ND	2.0	µg/L							
1,1-Dichloroethylene	ND	2.0	µg/L							
trans-1,2-Dichloroethylene	ND	2.0	µg/L							
1,2-Dichloropropane	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	2.0	µg/L							
trans-1,3-Dichloropropene	ND	2.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L							
Tetrachloroethylene	ND	2.0	µg/L							
Toluene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	2.0	µg/L							
1,1,2-Trichloroethane	ND	2.0	µg/L							
Trichloroethylene	ND	2.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*22.8*		µg/L	25.0		91.2	70-130			
Surrogate: Toluene-d8	*25.1*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*24.9*		µg/L	25.0		99.7	70-130			
LCS (B084181-BS1)				Prepared: 11/01/13 Analyzed: 11/02/13						
Benzene	10.9	1.0	µg/L	10.0		109	37-151			
Bromodichloromethane	9.35	2.0	µg/L	10.0		93.5	35-155			
Bromoform	7.06	2.0	µg/L	10.0		70.6	45-169			
Bromomethane	9.63	2.0	µg/L	10.0		96.3	20-242			
Carbon Tetrachloride	8.30	2.0	µg/L	10.0		83.0	70-140			
Chlorobenzene	11.6	2.0	µg/L	10.0		116	37-160			
Chlorodibromomethane	8.08	2.0	µg/L	10.0		80.8	53-149			
Chloroethane	10.1	2.0	µg/L	10.0		101	70-130			
2-Chloroethyl Vinyl Ether	106	10	µg/L	100		106	10-305			
Chloroform	9.84	2.0	µg/L	10.0		98.4	51-138			
Chloromethane	9.42	2.0	µg/L	10.0		94.2	20-273			
1,2-Dichlorobenzene	10.9	2.0	µg/L	10.0		109	18-190			
1,3-Dichlorobenzene	11.4	2.0	µg/L	10.0		114	59-156			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B084181 - SW-846 5030B										
LCS (B084181-BS1)				Prepared: 11/01/13 Analyzed: 11/02/13						
1,4-Dichlorobenzene	11.1	2.0	µg/L	10.0		111	18-190			
1,2-Dichloroethane	8.42	2.0	µg/L	10.0		84.2	49-155			
1,1-Dichloroethane	10.3	2.0	µg/L	10.0		103	59-155			
1,1-Dichloroethylene	9.47	2.0	µg/L	10.0		94.7	20-234			
trans-1,2-Dichloroethylene	9.93	2.0	µg/L	10.0		99.3	54-156			
1,2-Dichloropropane	9.89	2.0	µg/L	10.0		98.9	20-210			
cis-1,3-Dichloropropene	9.22	2.0	µg/L	10.0		92.2	20-227			
trans-1,3-Dichloropropene	8.07	2.0	µg/L	10.0		80.7	17-183			
Ethylbenzene	11.3	2.0	µg/L	10.0		113	37-162			
Methyl tert-Butyl Ether (MTBE)	9.03	2.0	µg/L	10.0		90.3	70-130			
Methylene Chloride	12.7	5.0	µg/L	10.0		127	50-221			
1,1,2,2-Tetrachloroethane	8.49	2.0	µg/L	10.0		84.9	46-157			
Tetrachloroethylene	10.7	2.0	µg/L	10.0		107	64-148			
Toluene	10.5	1.0	µg/L	10.0		105	47-150			
1,1,1-Trichloroethane	8.57	2.0	µg/L	10.0		85.7	52-162			
1,1,2-Trichloroethane	9.13	2.0	µg/L	10.0		91.3	52-150			
Trichloroethylene	9.75	2.0	µg/L	10.0		97.5	71-157			
Trichlorofluoromethane (Freon 11)	8.21	2.0	µg/L	10.0		82.1	17-181			
Vinyl Chloride	8.52	2.0	µg/L	10.0		85.2	20-251			
m+p Xylene	22.3	2.0	µg/L	20.0		112	70-130			
o-Xylene	10.9	2.0	µg/L	10.0		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	*22.4*		µg/L	25.0		89.4	70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		100	70-130			

con-test® ANALYTICAL LABORATORY

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B084567 - SW-846 3510C										
Blank (B084567-BLK1)				Prepared: 11/06/13 Analyzed: 11/07/13						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzidine	ND	20	µg/L							V-05
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							V-05
Benzo(k)fluoranthene	ND	5.0	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							L-04
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							V-05
Di-n-butylphthalate	ND	10	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							V-05
Isophorone	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B084567 - SW-846 3510C											
Blank (B084567-BLK1)				Prepared: 11/06/13 Analyzed: 11/07/13							
Phenanthrene	ND	5.0	µg/L								
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	µg/L								L-04
1,2,4-Trichlorobenzene	ND	5.0	µg/L								
2,4,6-Trichlorophenol	ND	10	µg/L								
Surrogate: 2-Fluorophenol	*104*		µg/L	200		51.9		15-110			
Surrogate: Phenol-d6	*78.9*		µg/L	200		39.4		15-110			
Surrogate: Nitrobenzene-d5	*77.0*		µg/L	100		77.0		30-130			
Surrogate: 2-Fluorobiphenyl	*67.2*		µg/L	100		67.2		30-130			
Surrogate: 2,4,6-Tribromophenol	*267*		µg/L	200		**134**	*	15-110			S-17
Surrogate: p-Terphenyl-d14	*114*		µg/L	100		114		30-130			
LCS (B084567-BS1)				Prepared: 11/06/13 Analyzed: 11/07/13							
Acenaphthene	69.2	5.0	µg/L	100		69.2		47-145			
Acenaphthylene	66.5	5.0	µg/L	100		66.5		33-145			
Anthracene	72.3	5.0	µg/L	100		72.3		27-133			
Benzidine	74.0	20	µg/L	100		74.0		40-140			V-05
Benzo(a)anthracene	75.7	5.0	µg/L	100		75.7		33-143			
Benzo(a)pyrene	77.5	5.0	µg/L	100		77.5		17-163			
Benzo(b)fluoranthene	87.9	5.0	µg/L	100		87.9		24-159			
Benzo(g,h,i)perylene	38.3	5.0	µg/L	100		38.3		1-219			V-05
Benzo(k)fluoranthene	80.5	5.0	µg/L	100		80.5		11-162			
4-Bromophenylphenylether	80.5	10	µg/L	100		80.5		53-127			
Butylbenzylphthalate	70.4	10	µg/L	100		70.4		1-152			
4-Chloro-3-methylphenol	68.6	10	µg/L	100		68.6		22-147			
Bis(2-chloroethoxy)methane	88.8	10	µg/L	100		88.8		33-184			
Bis(2-chloroethyl)ether	70.9	10	µg/L	100		70.9		12-158			
Bis(2-chloroisopropyl)ether	63.7	10	µg/L	100		63.7		36-166			
2-Chloronaphthalene	59.7	10	µg/L	100		**59.7**	*	60-118			L-04
2-Chlorophenol	70.1	10	µg/L	100		70.1		23-134			
4-Chlorophenylphenylether	71.7	10	µg/L	100		71.7		25-158			
Chrysene	73.9	5.0	µg/L	100		73.9		17-168			
Dibenz(a,h)anthracene	42.0	5.0	µg/L	100		42.0		1-227			V-05
Di-n-butylphthalate	67.5	10	µg/L	100		67.5		1-118			
1,3-Dichlorobenzene	60.8	5.0	µg/L	100		60.8		1-172			
1,4-Dichlorobenzene	57.4	5.0	µg/L	100		57.4		20-124			
1,2-Dichlorobenzene	60.8	5.0	µg/L	100		60.8		32-129			
3,3-Dichlorobenzidine	78.4	10	µg/L	100		78.4		1-262			
2,4-Dichlorophenol	72.2	10	µg/L	100		72.2		39-135			
Diethylphthalate	69.2	10	µg/L	100		69.2		1-114			
2,4-Dimethylphenol	69.4	10	µg/L	100		69.4		32-119			
Dimethylphthalate	71.7	10	µg/L	100		71.7		1-112			
4,6-Dinitro-2-methylphenol	72.9	10	µg/L	100		72.9		1-181			
2,4-Dinitrophenol	68.6	10	µg/L	100		68.6		1-191			
2,4-Dinitrotoluene	68.9	10	µg/L	100		68.9		39-139			
2,6-Dinitrotoluene	67.1	10	µg/L	100		67.1		50-158			
Di-n-octylphthalate	103	10	µg/L	100		103		4-146			
1,2-Diphenylhydrazine (as Azobenzene)	79.3	10	µg/L	100		79.3		40-140			
Bis(2-Ethylhexyl)phthalate	74.2	10	µg/L	100		74.2		8-158			
Fluoranthene	71.2	5.0	µg/L	100		71.2		26-137			
Fluorene	67.7	5.0	µg/L	100		67.7		59-121			
Hexachlorobenzene	77.7	10	µg/L	100		77.7		1-152			

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B084567 - SW-846 3510C											
LCS (B084567-BS1)				Prepared: 11/06/13 Analyzed: 11/07/13							
Hexachlorobutadiene	61.1	10	µg/L	100		61.1		24-116			
Hexachlorocyclopentadiene	67.7	10	µg/L	100		67.7		40-140			
Hexachloroethane	56.8	10	µg/L	100		56.8		40-113			
Indeno(1,2,3-cd)pyrene	40.1	5.0	µg/L	100		40.1		1-171			V-05
Isophorone	73.5	10	µg/L	100		73.5		21-196			
Naphthalene	63.2	5.0	µg/L	100		63.2		21-133			
Nitrobenzene	66.7	10	µg/L	100		66.7		35-180			
2-Nitrophenol	69.6	10	µg/L	100		69.6		29-182			
4-Nitrophenol	27.3	10	µg/L	100		27.3		1-132			
N-Nitrosodimethylamine	52.2	10	µg/L	100		52.2		40-140			
N-Nitrosodiphenylamine	88.7	10	µg/L	100		88.7		40-140			
N-Nitrosodi-n-propylamine	52.8	10	µg/L	100		52.8		1-230			
Pentachlorophenol	81.2	10	µg/L	100		81.2		14-176			
Phenanthrene	71.7	5.0	µg/L	100		71.7		54-120			
Phenol	42.7	10	µg/L	100		42.7		5-112			
Pyrene	48.9	5.0	µg/L	100		**48.9**	*	52-115			L-04
1,2,4-Trichlorobenzene	65.0	5.0	µg/L	100		65.0		44-142			
2,4,6-Trichlorophenol	78.4	10	µg/L	100		78.4		37-144			
Surrogate: 2-Fluorophenol	*105*		µg/L	200		52.6		15-110			
Surrogate: Phenol-d6	*64.5*		µg/L	200		32.3		15-110			
Surrogate: Nitrobenzene-d5	*71.8*		µg/L	100		71.8		30-130			
Surrogate: 2-Fluorobiphenyl	*76.1*		µg/L	100		76.1		30-130			
Surrogate: 2,4,6-Tribromophenol	*171*		µg/L	200		85.5		15-110			
Surrogate: p-Terphenyl-d14	*57.7*		µg/L	100		57.7		30-130			
LCS Dup (B084567-BSD1)				Prepared: 11/06/13 Analyzed: 11/07/13							
Acenaphthene	63.4	5.0	µg/L	100		63.4		47-145	8.82		
Acenaphthylene	61.5	5.0	µg/L	100		61.5		33-145	7.84		
Anthracene	67.2	5.0	µg/L	100		67.2		27-133	7.38		
Benzidine	56.9	20	µg/L	100		56.9		40-140	26.2		V-05
Benzo(a)anthracene	68.0	5.0	µg/L	100		68.0		33-143	10.7		
Benzo(a)pyrene	71.0	5.0	µg/L	100		71.0		17-163	8.76		
Benzo(b)fluoranthene	77.6	5.0	µg/L	100		77.6		24-159	12.5		
Benzo(g,h,i)perylene	35.9	5.0	µg/L	100		35.9		1-219	6.47		V-05
Benzo(k)fluoranthene	73.2	5.0	µg/L	100		73.2		11-162	9.51		
4-Bromophenylphenylether	81.7	10	µg/L	100		81.7		53-127	1.49		
Butylbenzylphthalate	56.5	10	µg/L	100		56.5		1-152	21.9		
4-Chloro-3-methylphenol	79.2	10	µg/L	100		79.2		22-147	14.3		
Bis(2-chloroethoxy)methane	86.6	10	µg/L	100		86.6		33-184	2.46		
Bis(2-chloroethyl)ether	70.3	10	µg/L	100		70.3		12-158	0.949		
Bis(2-chloroisopropyl)ether	72.9	10	µg/L	100		72.9		36-166	13.6		
2-Chloronaphthalene	54.0	10	µg/L	100		**54.0**	*	60-118	10.2		L-04
2-Chlorophenol	74.1	10	µg/L	100		74.1		23-134	5.56		
4-Chlorophenylphenylether	62.7	10	µg/L	100		62.7		25-158	13.4		
Chrysene	67.8	5.0	µg/L	100		67.8		17-168	8.52		
Dibenz(a,h)anthracene	38.4	5.0	µg/L	100		38.4		1-227	9.11		V-05
Di-n-butylphthalate	59.0	10	µg/L	100		59.0		1-118	13.5		
1,3-Dichlorobenzene	53.7	5.0	µg/L	100		53.7		1-172	12.5		
1,4-Dichlorobenzene	54.9	5.0	µg/L	100		54.9		20-124	4.38		
1,2-Dichlorobenzene	59.0	5.0	µg/L	100		59.0		32-129	2.95		
3,3-Dichlorobenzidine	86.4	10	µg/L	100		86.4		1-262	9.65		
2,4-Dichlorophenol	76.5	10	µg/L	100		76.5		39-135	5.83		

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B084567 - SW-846 3510C											
LCS Dup (B084567-BSD1)				Prepared: 11/06/13 Analyzed: 11/07/13							
Diethylphthalate	56.8	10	µg/L	100		56.8		1-114	19.6		
2,4-Dimethylphenol	68.5	10	µg/L	100		68.5		32-119	1.20		
Dimethylphthalate	62.0	10	µg/L	100		62.0		1-112	14.5		
4,6-Dinitro-2-methylphenol	66.8	10	µg/L	100		66.8		1-181	8.85		
2,4-Dinitrophenol	53.7	10	µg/L	100		53.7		1-191	24.4		
2,4-Dinitrotoluene	53.7	10	µg/L	100		53.7		39-139	24.7		
2,6-Dinitrotoluene	57.8	10	µg/L	100		57.8		50-158	14.9		
Di-n-octylphthalate	80.8	10	µg/L	100		80.8		4-146	23.8		
1,2-Diphenylhydrazine (as Azobenzene)	87.2	10	µg/L	100		87.2		40-140	9.48		
Bis(2-Ethylhexyl)phthalate	63.5	10	µg/L	100		63.5		8-158	15.6		
Fluoranthene	56.5	5.0	µg/L	100		56.5		26-137	23.0		
Fluorene	58.4	5.0	µg/L	100		**58.4**	*	59-121	14.7		L-07
Hexachlorobenzene	78.4	10	µg/L	100		78.4		1-152	0.858		
Hexachlorobutadiene	44.1	10	µg/L	100		44.1		24-116	32.4		
Hexachlorocyclopentadiene	50.3	10	µg/L	100		50.3		40-140	29.4		
Hexachloroethane	52.6	10	µg/L	100		52.6		40-113	7.67		
Indeno(1,2,3-cd)pyrene	36.9	5.0	µg/L	100		36.9		1-171	8.29		V-05
Isophorone	75.3	10	µg/L	100		75.3		21-196	2.39		
Naphthalene	57.8	5.0	µg/L	100		57.8		21-133	8.86		
Nitrobenzene	61.1	10	µg/L	100		61.1		35-180	8.77		
2-Nitrophenol	64.4	10	µg/L	100		64.4		29-182	7.79		
4-Nitrophenol	21.1	10	µg/L	100		21.1		1-132	25.7		
N-Nitrosodimethylamine	42.8	10	µg/L	100		42.8		40-140	19.9		
N-Nitrosodiphenylamine	91.6	10	µg/L	100		91.6		40-140	3.17		
N-Nitrosodi-n-propylamine	75.3	10	µg/L	100		75.3		1-230	35.1		
Pentachlorophenol	70.2	10	µg/L	100		70.2		14-176	14.6		
Phenanthrene	67.2	5.0	µg/L	100		67.2		54-120	6.51		
Phenol	46.1	10	µg/L	100		46.1		5-112	7.68		
Pyrene	49.2	5.0	µg/L	100		**49.2**	*	52-115	0.551		L-04
1,2,4-Trichlorobenzene	54.8	5.0	µg/L	100		54.8		44-142	17.0		
2,4,6-Trichlorophenol	73.4	10	µg/L	100		73.4		37-144	6.67		
Surrogate: 2-Fluorophenol	*95.2*		µg/L	200		47.6		15-110			
Surrogate: Phenol-d6	*77.4*		µg/L	200		38.7		15-110			
Surrogate: Nitrobenzene-d5	*63.4*		µg/L	100		63.4		30-130			
Surrogate: 2-Fluorobiphenyl	*65.3*		µg/L	100		65.3		30-130			
Surrogate: 2,4,6-Tribromophenol	*126*		µg/L	200		63.2		15-110			
Surrogate: p-Terphenyl-d14	*51.2*		µg/L	100		51.2		30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B084566 - SW-846 3510C										
Blank (B084566-BLK1)				Prepared: 11/06/13 Analyzed: 11/07/13						
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.080	µg/L							
4,4'-DDD [2C]	ND	0.080	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.080	µg/L							
4,4'-DDT [2C]	ND	0.080	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	*1.83*		µg/L	2.00		91.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.75*		µg/L	2.00		87.5	30-150			
Surrogate: Tetrachloro-m-xylene	*1.68*		µg/L	2.00		84.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.82*		µg/L	2.00		90.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B084566 - SW-846 3510C										
LCS (B084566-BS1)				Prepared: 11/06/13 Analyzed: 11/07/13						
Aldrin	0.19	0.050	µg/L	0.200		96.8	42-122			
Aldrin [2C]	0.19	0.050	µg/L	0.200		94.7	42-122			
alpha-BHC	0.18	0.050	µg/L	0.200		91.1	37-134			
alpha-BHC [2C]	0.18	0.050	µg/L	0.200		87.9	37-134			
beta-BHC	0.19	0.050	µg/L	0.200		96.8	17-147			
beta-BHC [2C]	0.19	0.050	µg/L	0.200		94.4	17-147			
delta-BHC	0.12	0.050	µg/L	0.200		60.5	19-140			
delta-BHC [2C]	0.11	0.050	µg/L	0.200		56.6	19-140			
gamma-BHC (Lindane)	0.18	0.030	µg/L	0.200		90.1	32-127			
gamma-BHC (Lindane) [2C]	0.19	0.030	µg/L	0.200		94.3	32-127			
4,4'-DDD	0.20	0.080	µg/L	0.200		98.8	31-141			
4,4'-DDD [2C]	0.20	0.080	µg/L	0.200		98.0	31-141			
4,4'-DDE	0.19	0.040	µg/L	0.200		97.2	30-145			
4,4'-DDE [2C]	0.19	0.040	µg/L	0.200		97.3	30-145			
4,4'-DDT	0.20	0.080	µg/L	0.200		98.8	25-160			
4,4'-DDT [2C]	0.19	0.080	µg/L	0.200		96.2	25-160			
Dieldrin	0.19	0.0020	µg/L	0.200		96.8	36-146			
Dieldrin [2C]	0.20	0.0020	µg/L	0.200		101	36-146			
Endosulfan I	0.20	0.050	µg/L	0.200		99.8	45-153			
Endosulfan I [2C]	0.19	0.050	µg/L	0.200		96.1	45-153			
Endosulfan II	0.20	0.080	µg/L	0.200		101	10-202			
Endosulfan II [2C]	0.20	0.080	µg/L	0.200		97.7	10-202			
Endosulfan Sulfate	0.19	0.080	µg/L	0.200		94.3	26-144			
Endosulfan Sulfate [2C]	0.18	0.080	µg/L	0.200		87.6	26-144			
Endrin	0.20	0.080	µg/L	0.200		99.9	30-147			
Endrin [2C]	0.19	0.080	µg/L	0.200		95.2	30-147			
Endrin Aldehyde	0.21	0.080	µg/L	0.200		107	40-140			
Endrin Aldehyde [2C]	0.20	0.080	µg/L	0.200		100	40-140			
Endrin Ketone	0.20	0.080	µg/L	0.200		101	40-140			
Endrin Ketone [2C]	0.19	0.080	µg/L	0.200		97.2	40-140			
Heptachlor	0.19	0.050	µg/L	0.200		97.5	31-111			
Heptachlor [2C]	0.18	0.050	µg/L	0.200		92.4	31-111			
Heptachlor Epoxide	0.20	0.050	µg/L	0.200		99.6	37-142			
Heptachlor Epoxide [2C]	0.19	0.050	µg/L	0.200		95.6	37-142			
Methoxychlor	0.21	0.50	µg/L	0.200		106	40-140			
Methoxychlor [2C]	0.19	0.50	µg/L	0.200		96.4	40-140			
Surrogate: Decachlorobiphenyl	*1.80*		µg/L	2.00		90.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.73*		µg/L	2.00		86.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.61*		µg/L	2.00		80.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.75*		µg/L	2.00		87.4	30-150			
LCS Dup (B084566-BSD1)				Prepared: 11/06/13 Analyzed: 11/07/13						
Aldrin	0.19	0.050	µg/L	0.200		97.1	42-122	0.248		
Aldrin [2C]	0.19	0.050	µg/L	0.200		94.1	42-122	0.609		
alpha-BHC	0.19	0.050	µg/L	0.200		92.8	37-134	1.88		
alpha-BHC [2C]	0.18	0.050	µg/L	0.200		88.5	37-134	0.601		
beta-BHC	0.20	0.050	µg/L	0.200		97.5	17-147	0.767		
beta-BHC [2C]	0.19	0.050	µg/L	0.200		95.7	17-147	1.35		
delta-BHC	0.12	0.050	µg/L	0.200		61.3	19-140	1.26		
delta-BHC [2C]	0.11	0.050	µg/L	0.200		57.0	19-140	0.740		
gamma-BHC (Lindane)	0.18	0.030	µg/L	0.200		92.1	32-127	2.20		
gamma-BHC (Lindane) [2C]	0.19	0.030	µg/L	0.200		95.1	32-127	0.829		

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B084566 - SW-846 3510C										
LCS Dup (B084566-BSD1)				Prepared: 11/06/13 Analyzed: 11/07/13						
4,4'-DDD	0.21	0.080	µg/L	0.200		103	31-141	4.41		
4,4'-DDD [2C]	0.20	0.080	µg/L	0.200		101	31-141	3.16		
4,4'-DDE	0.20	0.040	µg/L	0.200		100	30-145	3.15		
4,4'-DDE [2C]	0.20	0.040	µg/L	0.200		98.5	30-145	1.18		
4,4'-DDT	0.20	0.080	µg/L	0.200		102	25-160	3.04		
4,4'-DDT [2C]	0.20	0.080	µg/L	0.200		97.5	25-160	1.32		
Dieldrin	0.20	0.0020	µg/L	0.200		99.3	36-146	2.56		
Dieldrin [2C]	0.20	0.0020	µg/L	0.200		102	36-146	1.02		
Endosulfan I	0.20	0.050	µg/L	0.200		102	45-153	1.85		
Endosulfan I [2C]	0.19	0.050	µg/L	0.200		96.8	45-153	0.705		
Endosulfan II	0.21	0.080	µg/L	0.200		104	10-202	2.86		
Endosulfan II [2C]	0.20	0.080	µg/L	0.200		98.7	10-202	1.02		
Endosulfan Sulfate	0.19	0.080	µg/L	0.200		96.7	26-144	2.47		
Endosulfan Sulfate [2C]	0.18	0.080	µg/L	0.200		88.1	26-144	0.580		
Endrin	0.20	0.080	µg/L	0.200		102	30-147	2.35		
Endrin [2C]	0.19	0.080	µg/L	0.200		97.0	30-147	1.78		
Endrin Aldehyde	0.22	0.080	µg/L	0.200		110	40-140	2.65		
Endrin Aldehyde [2C]	0.20	0.080	µg/L	0.200		101	40-140	1.02		
Endrin Ketone	0.21	0.080	µg/L	0.200		106	40-140	4.04		
Endrin Ketone [2C]	0.19	0.080	µg/L	0.200		97.5	40-140	0.231		
Heptachlor	0.20	0.050	µg/L	0.200		98.1	31-111	0.700		
Heptachlor [2C]	0.18	0.050	µg/L	0.200		91.9	31-111	0.488		
Heptachlor Epoxide	0.20	0.050	µg/L	0.200		101	37-142	1.71		
Heptachlor Epoxide [2C]	0.19	0.050	µg/L	0.200		96.6	37-142	1.10		
Methoxychlor	0.22	0.50	µg/L	0.200		110	40-140	3.11		
Methoxychlor [2C]	0.20	0.50	µg/L	0.200		97.6	40-140	1.26		
Surrogate: Decachlorobiphenyl	*1.75*		µg/L	2.00		87.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.66*		µg/L	2.00		82.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.61*		µg/L	2.00		80.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.71*		µg/L	2.00		85.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B084565 - SW-846 3510C										
Blank (B084565-BLK1)				Prepared: 11/06/13 Analyzed: 11/07/13						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.41*		µg/L	2.00		70.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.54*		µg/L	2.00		77.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.61*		µg/L	2.00		80.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.66*		µg/L	2.00		83.2	30-150			
LCS (B084565-BS1)				Prepared: 11/06/13 Analyzed: 11/07/13						
Aroclor-1016	0.48	0.20	µg/L	0.500		95.3	50-114			
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		101	50-114			
Aroclor-1260	0.39	0.20	µg/L	0.500		78.8	8-127			
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		91.0	8-127			
Surrogate: Decachlorobiphenyl	*1.50*		µg/L	2.00		75.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.65*		µg/L	2.00		82.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.57*		µg/L	2.00		78.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.63*		µg/L	2.00		81.4	30-150			
LCS Dup (B084565-BSD1)				Prepared: 11/06/13 Analyzed: 11/07/13						
Aroclor-1016	0.48	0.20	µg/L	0.500		96.2	50-114	0.956		
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		102	50-114	0.729		
Aroclor-1260	0.40	0.20	µg/L	0.500		79.4	8-127	0.787		
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		91.2	8-127	0.198		
Surrogate: Decachlorobiphenyl	*1.39*		µg/L	2.00		69.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.53*		µg/L	2.00		76.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.53*		µg/L	2.00		76.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.58*		µg/L	2.00		79.1	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B084562 - SW-846 3510C										
Blank (B084562-BLK1)				Prepared: 11/06/13 Analyzed: 11/07/13						
2,4-D	ND	0.50	µg/L							
2,4-D [2C]	ND	0.50	µg/L							
2,4,5-TP (Silvex)	ND	0.050	µg/L							
2,4,5-TP (Silvex) [2C]	ND	0.050	µg/L							
2,4,5-T	ND	0.10	µg/L							
2,4,5-T [2C]	ND	0.10	µg/L							
Dalapon	ND	1.2	µg/L							
Dalapon [2C]	ND	1.2	µg/L							
Dicamba	ND	0.050	µg/L							
Dicamba [2C]	ND	0.050	µg/L							
Surrogate: 2,4-Dichlorophenylacetic acid	*1.41*		µg/L	2.00		70.6	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	*1.43*		µg/L	2.00		71.3	30-150			
LCS (B084562-BS1)				Prepared: 11/06/13 Analyzed: 11/07/13						
2,4-D	1.93	0.50	µg/L	2.00		96.4	40-140			
2,4-D [2C]	2.12	0.50	µg/L	2.00		106	40-140			
2,4,5-TP (Silvex)	0.193	0.050	µg/L	0.200		96.6	40-140			
2,4,5-TP (Silvex) [2C]	0.216	0.050	µg/L	0.200		108	40-140			
2,4,5-T	0.182	0.10	µg/L	0.200		91.1	40-140			
2,4,5-T [2C]	0.214	0.10	µg/L	0.200		107	40-140			
Dalapon	3.56	1.2	µg/L	5.00		71.2	40-140			
Dalapon [2C]	3.97	1.2	µg/L	5.00		79.5	40-140			V-06
Dicamba	0.220	0.050	µg/L	0.200		110	40-140			
Dicamba [2C]	0.219	0.050	µg/L	0.200		109	40-140			V-06
Surrogate: 2,4-Dichlorophenylacetic acid	*1.75*		µg/L	2.00		87.4	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	*1.73*		µg/L	2.00		86.4	30-150			
LCS Dup (B084562-BSD1)				Prepared: 11/06/13 Analyzed: 11/07/13						
2,4-D	1.64	0.50	µg/L	2.00		82.2	40-140	15.9	30	
2,4-D [2C]	1.83	0.50	µg/L	2.00		91.5	40-140	14.7	30	
2,4,5-TP (Silvex)	0.166	0.050	µg/L	0.200		82.8	40-140	15.3	30	
2,4,5-TP (Silvex) [2C]	0.181	0.050	µg/L	0.200		90.6	40-140	17.3	30	
2,4,5-T	0.157	0.10	µg/L	0.200		78.4	40-140	14.9	30	
2,4,5-T [2C]	0.176	0.10	µg/L	0.200		87.9	40-140	19.5	30	
Dalapon	3.08	1.2	µg/L	5.00		61.6	40-140	14.5	30	
Dalapon [2C]	3.41	1.2	µg/L	5.00		68.2	40-140	15.3	30	V-06
Dicamba	0.190	0.050	µg/L	0.200		94.8	40-140	14.8	30	
Dicamba [2C]	0.236	0.050	µg/L	0.200		118	40-140	7.39	30	V-06
Surrogate: 2,4-Dichlorophenylacetic acid	*1.55*		µg/L	2.00		77.3	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	*1.53*		µg/L	2.00		76.7	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B084135 - EPA 200.7										
Blank (B084135-BLK1)				Prepared: 10/31/13 Analyzed: 11/04/13						
Arsenic	ND	0.010	mg/L							
Barium	ND	0.10	mg/L							
Beryllium	ND	0.0020	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.0070	mg/L							
Cobalt	ND	0.010	mg/L							
Copper	ND	0.0050	mg/L							
Magnesium	ND	0.050	mg/L							
Nickel	ND	0.0050	mg/L							
Selenium	ND	0.050	mg/L							
Thallium	ND	0.060	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.010	mg/L							
Boron	ND	0.10	mg/L							
LCS (B084135-BS2)				Prepared: 10/31/13 Analyzed: 11/04/13						
Arsenic	2.09	0.010	mg/L	2.00		104	85-115			
Barium	2.08	0.10	mg/L	2.00		104	85-115			
Beryllium	2.10	0.0020	mg/L	2.00		105	85-115			
Calcium	2.10	0.50	mg/L	2.00		105	85-115			
Chromium	2.11	0.0070	mg/L	2.00		105	85-115			
Cobalt	2.09	0.010	mg/L	2.00		105	85-115			
Copper	2.04	0.0050	mg/L	2.00		102	85-115			
Magnesium	2.24	0.050	mg/L	2.00		112	85-115			
Nickel	2.04	0.0050	mg/L	2.00		102	85-115			
Selenium	2.13	0.050	mg/L	2.00		106	85-115			
Thallium	2.03	0.060	mg/L	2.00		101	85-115			
Vanadium	2.07	0.010	mg/L	2.00		104	85-115			
Zinc	1.99	0.010	mg/L	2.00		99.4	85-115			
Boron	1.98	0.10	mg/L	2.00		99.1	85-115			
LCS Dup (B084135-BSD2)				Prepared: 10/31/13 Analyzed: 11/04/13						
Arsenic	2.10	0.010	mg/L	2.00		105	85-115	0.703	20	
Barium	2.08	0.10	mg/L	2.00		104	85-115	0.00380	20	
Beryllium	2.12	0.0020	mg/L	2.00		106	85-115	1.07	20	
Calcium	2.13	0.50	mg/L	2.00		107	85-115	1.68	20	
Chromium	2.13	0.0070	mg/L	2.00		106	85-115	0.834	20	
Cobalt	2.11	0.010	mg/L	2.00		105	85-115	0.628	20	
Copper	2.06	0.0050	mg/L	2.00		103	85-115	0.767	20	
Magnesium	2.25	0.050	mg/L	2.00		113	85-115	0.458	20	
Nickel	2.06	0.0050	mg/L	2.00		103	85-115	0.788	20	
Selenium	2.14	0.050	mg/L	2.00		107	85-115	0.828	20	
Thallium	2.04	0.060	mg/L	2.00		102	85-115	0.861	20	
Vanadium	2.07	0.010	mg/L	2.00		104	85-115	0.0447	20	
Zinc	2.01	0.010	mg/L	2.00		100	85-115	0.892	20	
Boron	2.00	0.10	mg/L	2.00		100	85-115	1.15	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B084244 - EPA 245.1										
Blank (B084244-BLK1)				Prepared: 11/02/13 Analyzed: 11/04/13						
Mercury	ND	0.00010	mg/L							
LCS (B084244-BS1)				Prepared: 11/02/13 Analyzed: 11/04/13						
Mercury	0.00196	0.00010	mg/L	0.00200		98.0	85-115			
LCS Dup (B084244-BSD1)				Prepared: 11/02/13 Analyzed: 11/04/13						
Mercury	0.00196	0.00010	mg/L	0.00200		97.9	85-115	0.106	20	
Batch B084250 - EPA 200.7										
Blank (B084250-BLK1)				Prepared: 11/02/13 Analyzed: 11/04/13						
Cadmium	ND	0.0010	mg/L							
Lead	ND	0.0050	mg/L							
Tin	ND	0.20	mg/L							
LCS (B084250-BS1)				Prepared: 11/02/13 Analyzed: 11/04/13						
Cadmium	0.544	0.0010	mg/L	0.500		109	85-115			
Lead	0.501	0.0050	mg/L	0.500		100	85-115			
Tin	4.31	0.20	mg/L	5.00		86.2	85-115			
LCS Dup (B084250-BSD1)				Prepared: 11/02/13 Analyzed: 11/04/13						
Cadmium	0.535	0.0010	mg/L	0.500		107	85-115	1.73	20	
Lead	0.500	0.0050	mg/L	0.500		99.9	85-115	0.262	20	
Tin	4.25	0.20	mg/L	5.00		85.0	85-115	1.40	20	
Batch B084394 - EPA 200.7										
Blank (B084394-BLK1)				Prepared & Analyzed: 11/05/13						
Silver	ND	0.010	mg/L							
LCS (B084394-BS1)				Prepared & Analyzed: 11/05/13						
Silver	0.533	0.010	mg/L	0.500		107	85-115			
LCS Dup (B084394-BSD1)				Prepared & Analyzed: 11/05/13						
Silver	0.504	0.010	mg/L	0.500		101	85-115	5.58	20	
Duplicate (B084394-DUP1)		**Source: 13J1246-01RE1**		Prepared & Analyzed: 11/05/13						
Silver	ND	0.010	mg/L		ND			NC	20	
Matrix Spike (B084394-MS1)		**Source: 13J1246-01RE1**		Prepared & Analyzed: 11/05/13						
Silver	0.518	0.010	mg/L	0.500	ND	104	70-130			

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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 B084149 - EPA 1664A/B										
Blank (B084149-BLK1)				Prepared & Analyzed: 11/01/13						
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L							
LCS (B084149-BS1)				Prepared & Analyzed: 11/01/13						
Silica Gel Treated HEM (SGT-HEM)	20		mg/L	20.0		97.5	64-132			
Batch B084209 - SM18-20 3500 Cr B/D										
Blank (B084209-BLK1)				Prepared & Analyzed: 10/31/13						
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B084209-BS1)				Prepared & Analyzed: 10/31/13						
Hexavalent Chromium	0.10	0.0040	mg/L	0.100		103	85.7-108			
LCS Dup (B084209-BSD1)				Prepared & Analyzed: 10/31/13						
Hexavalent Chromium	0.10	0.0040	mg/L	0.100		102	85.7-108	1.49	10.8	
Matrix Spike (B084209-MS1)	**Source: 13J1246-01**			Prepared & Analyzed: 10/31/13						
Hexavalent Chromium	0.099	0.0040	mg/L	0.100	ND	98.7	12.8-158			
Matrix Spike (B084209-MS2)	**Source: 13J1246-01**			Prepared & Analyzed: 10/31/13						
Hexavalent Chromium	0.091	0.0040	mg/L	0.100	ND	91.1	12.8-158			
Batch B084290 - EPA 420.1										
Blank (B084290-BLK1)				Prepared: 11/04/13 Analyzed: 11/05/13						
Phenol	ND	0.050	mg/L							
LCS (B084290-BS1)				Prepared: 11/04/13 Analyzed: 11/05/13						
Phenol	0.52	0.050	mg/L	0.500		105	80.2-133			
LCS Dup (B084290-BSD1)				Prepared: 11/04/13 Analyzed: 11/05/13						
Phenol	0.52	0.050	mg/L	0.500		103	80.2-133	1.50	20.7	
Batch B084300 - SM18-20 4500 CN E										
Blank (B084300-BLK1)				Prepared & Analyzed: 11/05/13						
Cyanide	ND	0.010	mg/L							
LCS (B084300-BS1)				Prepared & Analyzed: 11/05/13						
Cyanide	0.66	0.010	mg/L	0.672		98.1	69.9-121			

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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 B084300 - SM18-20 4500 CN E											
LCS Dup (B084300-BSD1)				Prepared & Analyzed: 11/05/13							
Cyanide	0.64	0.010	mg/L	0.672		95.3	69.9-121	2.96		17	
Matrix Spike (B084300-MS1)	**Source: 13J1246-01**			Prepared & Analyzed: 11/05/13							
Cyanide	0.38	0.010	mg/L	0.324	ND	119	29.1-155				
Matrix Spike Dup (B084300-MSD1)	**Source: 13J1246-01**			Prepared & Analyzed: 11/05/13							
Cyanide	0.27	0.010	mg/L	0.324	ND	82.5	29.1-155	**36.0**	*	20	R-06
Batch B084305 - SM18-20 4500 CN G											
Blank (B084305-BLK1)				Prepared & Analyzed: 11/05/13							
Cyanide (amenable)	ND	0.010	mg/L								

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BREAKDOWN REPORT

Lab Sample ID: **S004919-PEM1** **Analyzed:** **11/07/2013**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	0.65
Endrin [1]	2.50

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	1.18
Endrin [2]	5.41

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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.

L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-17	Surrogate recovery is outside of control limits. Data validation is not affected since all results are less than the reporting limit and bias is on the high side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Arsenic	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Barium	NY,CT,NH,RI,NC,ME,VA,NJ
Beryllium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Cadmium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Calcium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chromium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Cobalt	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Copper	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Lead	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Magnesium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Nickel	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Selenium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Silver	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Thallium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Tin	CT,NH,NY,RI,NC,ME,VA,NJ
Vanadium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Zinc	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Boron	CT,NH,NY,RI,NC,ME,VA,NJ
EPA 245.1 in Water	
Mercury	CT,MA,NH,RI,NY,NC,ME,VA,NJ
EPA 420.1 in Water	
Phenol	CT,MA,NH,NY,RI,NC,ME,VA,NJ
EPA 608 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aldrin	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aldrin [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
alpha-BHC	CT,MA,NH,NY,RI,NC,ME,VA,NJ
alpha-BHC [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
beta-BHC	CT,MA,NH,NY,RI,NC,ME,VA,NJ
beta-BHC [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
delta-BHC	CT,MA,NH,NY,RI,NC,ME,VA,NJ
delta-BHC [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
gamma-BHC (Lindane)	CT,MA,NH,NY,RI,NC,ME,VA,NJ
gamma-BHC (Lindane) [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chlordane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chlordane [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
4,4'-DDD	CT,MA,NH,NY,RI,NC,ME,VA,NJ
4,4'-DDD [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
4,4'-DDE	CT,MA,NH,NY,RI,NC,ME,VA,NJ
4,4'-DDE [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
4,4'-DDT	CT,MA,NH,NY,RI,NC,ME,VA,NJ

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CERTIFICATIONS

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Analyte	Certifications
EPA 608 in Water	
4,4'-DDT [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Dieldrin	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Dieldrin [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endosulfan II	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endosulfan II [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endosulfan Sulfate	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endosulfan Sulfate [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endrin	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endrin [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endrin Aldehyde	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endrin Aldehyde [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Heptachlor	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Heptachlor [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Methoxychlor	CT,NH,NY,RI,NC
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Methoxychlor [2C]	CT,NH,NY,RI,NC
Toxaphene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Toxaphene [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
EPA 624 in Water	
Benzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Bromodichloromethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Bromoform	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Bromomethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Carbon Tetrachloride	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chlorodibromomethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
2-Chloroethyl Vinyl Ether	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chloroform	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chloromethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,3-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,4-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2-Dichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1-Dichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 624 in Water	
1,1-Dichloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
trans-1,2-Dichloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2-Dichloropropane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
cis-1,3-Dichloropropene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
trans-1,3-Dichloropropene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Ethylbenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Naphthalene	NC
1,1,2,2-Tetrachloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Tetrachloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Toluene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2,4-Trichlorobenzene	NC
1,1,1-Trichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1,2-Trichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Trichloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Trichlorofluoromethane (Freon 11)	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Vinyl Chloride	CT,MA,NH,NY,RI,NC,ME,VA,NJ
m+p Xylene	CT,MA,NH,NY,RI,NC,VA,NJ
o-Xylene	CT,MA,NH,NY,RI,NC,VA,NJ
EPA 625 in Water	
Acenaphthene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Acenaphthylene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Anthracene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Benzidine	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Benzo(a)anthracene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Benzo(a)pyrene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Benzo(b)fluoranthene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Benzo(g,h,i)perylene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Benzo(k)fluoranthene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
4-Bromophenylphenylether	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Butylbenzylphthalate	CT,MA,NH,NY,NC,RI,ME,VA,NJ
4-Chloro-3-methylphenol	CT,MA,NH,NY,NC,RI,VA,NJ
Bis(2-chloroethoxy)methane	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Bis(2-chloroethyl)ether	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Bis(2-chloroisopropyl)ether	CT,MA,NH,NY,NC,RI,ME,VA,NJ
2-Chloronaphthalene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
2-Chlorophenol	CT,MA,NH,NY,NC,RI,ME,VA,NJ
4-Chlorophenylphenylether	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Chrysene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Dibenz(a,h)anthracene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Di-n-butylphthalate	CT,MA,NH,NY,NC,RI,ME,VA,NJ
1,3-Dichlorobenzene	MA,NC
1,4-Dichlorobenzene	MA,NC
1,2-Dichlorobenzene	MA,NC
3,3-Dichlorobenzidine	CT,MA,NH,NY,NC,RI,ME,VA,NJ

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CERTIFICATIONS

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Analyte	Certifications
EPA 625 in Water	
2,4-Dichlorophenol	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Diethylphthalate	CT,MA,NH,NY,NC,RI,ME,VA,NJ
2,4-Dimethylphenol	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Dimethylphthalate	CT,MA,NH,NY,NC,RI,ME,VA,NJ
4,6-Dinitro-2-methylphenol	CT,MA,NH,NY,NC,RI,ME,VA,NJ
2,4-Dinitrophenol	CT,MA,NH,NY,NC,RI,ME,VA,NJ
2,4-Dinitrotoluene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
2,6-Dinitrotoluene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Di-n-octylphthalate	CT,MA,NH,NY,NC,RI,ME,VA,NJ
1,2-Diphenylhydrazine (as Azobenzene)	NC
Bis(2-Ethylhexyl)phthalate	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Fluoranthene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Fluorene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Hexachlorobenzene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Hexachlorobutadiene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Hexachlorocyclopentadiene	CT,MA,NH,NY,NC,RI,ME,VA
Hexachloroethane	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Indeno(1,2,3-cd)pyrene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Isophorone	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Naphthalene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Nitrobenzene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
2-Nitrophenol	CT,MA,NH,NY,NC,RI,ME,VA,NJ
4-Nitrophenol	CT,MA,NH,NY,NC,RI,ME,VA,NJ
N-Nitrosodimethylamine	CT,MA,NH,NY,NC,RI,ME,VA,NJ
N-Nitrosodiphenylamine	CT,MA,NH,NY,NC,RI,ME,VA,NJ
N-Nitrosodi-n-propylamine	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Pentachlorophenol	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Phenanthrene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Phenol	CT,MA,NH,NY,NC,RI,ME,VA,NJ
Pyrene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
1,2,4-Trichlorobenzene	CT,MA,NH,NY,NC,RI,ME,VA,NJ
2,4,6-Trichlorophenol	CT,MA,NH,NY,NC,RI,ME,VA,NJ
2-Fluorophenol	NC
SM18-20 3500 Cr B/D in Water	
Hexavalent Chromium	NY,CT,NH,RI,ME,VA,NJ,NC
SM18-20 4500 CN E in Water	
Cyanide	CT,MA,NH,NY,RI,NC,ME,VA,NJ

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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	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

CHAIN OF CUSTODY RECORD

13J1246

Rev 04.05.12

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Company Name: AMEC
Address: 270 Main Ave Norwalk, Ct 06851
Attention: Bob Dwyer
Project Location: Greenwich H.S.
Sampled By: Bob Dwyer

Telephone: 203-952-3118
Project #: Greenwich H.S.
Client PO#:

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #:
Email: bdwyer@amecllc.com
Format: ☒ PDF ○ EXCEL ○ GIS
○ OTHER ____
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes ____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	*** Container Code
-01	Effluent 1	10-31-13 12:15			✓			11		

ANALYSIS REQUESTED

VOC	Herbicides	Metals - See attached	Pesticides	PCB	Oil+Grease 1664	phenols	SVOC	total Ammenable CN	hex cr
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa 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= drinking water
A = air
S = soil/solid
SL = sludge
O = other ____

Comments: See attached.

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

Relinquished by: (signature)	Date/Time:
Bob Dwyer	10-31-13
Received by: (signature)	Date/Time:
Theresa Ferrentino	10-31-13 12:30
Relinquished by: (signature)	Date/Time:
Theresa Ferrentino	10-31-13 1230
Received by: (signature)	Date/Time:
2nd 1435	10/31/13 1435

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH † ASAP
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: See attached
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # ____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

†† 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 IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Connecticut Department of
Energy & Environmental Protection
Bureau of Materials Management & Compliance Assurance
Water Permitting & Enforcement Division

Environmental Permitting Fact Sheet

General Permit for the Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer

Permit Overview

This general permit is issued under the authority of, and will be administered by, the Department of Energy and Environmental Protection's (DEEP) Water Permitting and Enforcement Division of the Bureau of Materials Management and Compliance Assurance. DEEP uses both individual and general permits to regulate discharge activities. Individual permits are issued directly to an applicant, whereas general permits are permits issued to authorize similar activities by one or more applicants throughout a prescribed geographic area. Authorization of an activity under a general permit is governed by that general permit. A general permit sets terms and conditions for conducting an activity that, when complied with, are protective of the environment. General permits are a quicker and more cost-effective way to permit specific activities for both the department and the registrant. The Groundwater Remediation Wastewater General Permit will only apply to discharges of groundwater remediation wastewaters (as defined therein), either discharged directly to Publicly Owned Treatment Works (POTWs) or hauled there.

"Groundwater Remediation Wastewater" means wastewater generated in connection with investigating pollution or remediating polluted groundwater or soil. Groundwater remediation wastewater includes without limitation groundwater withdrawn from a groundwater recovery well; groundwater which collects in an excavation or foundation drain or other subsurface facility or structure; groundwater contaminated runoff and stormwater impacted by on-site pollutants from any construction activity; condensate resulting from construction or maintenance of a soil vapor extraction system; washdown or backwash wastewater from treatment facilities; well development wastewater, and wastewater generated by removing an underground tank used at any time for storage of petroleum or petroleum products or by developing, testing, sampling, or purging a well, or by maintaining treatment facilities.

"Remediation" means the containment, removal, mitigation, or abatement of pollution, a potential source of pollution, or a substance which poses a risk to human health or the environment, and includes but is not limited to the reduction of pollution by natural attenuation

Authorizing Statutes

Section 22a-430b of the Connecticut General Statutes (CGS), as amended by Public Act 91-263.

Regulations

Sections 22a-430-1 through 22a-430-7 of the Regulations of Connecticut State Agencies (RCSA).

Required Documents

Permit Application Transmittal Form (DEP-APP-001); *General Permit Registration Form for the Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer* (DEP-WD-REG-007).

Fees

The registration fee of $500.00, as established by RCSA section 22a-430-6, shall be submitted with a completed registration form. As required by CGS section 22a-6, municipalities shall submit a fee of $250.00. As specified in RCSA section 22a-430-6(l), the registration fee shall be waived for any building used solely as a single-family residence. The registration fee shall be paid by certified check or money order payable to the Department of Energy and Environmental Protection. The check shall state on its face, "Water Management Permit Fee."

Average Processing Time

For this permit program, processing time for a typical application, based upon recent experience is less than 45 days. Past performance is not a guarantee of future processing timeframes. In order to increase the efficiency of application processing, we recommend that you utilize the Department's Pre-Application Guidance process, assure that your application package is properly completed at the time of submittal, and that you promptly reply to any requests for information.

Effluent Limits

The maximum daily flow of groundwater remediation wastewater shall not exceed 5% of the design capacity of the POTW receiving the discharge.

The pH of the discharge shall not be less than 5.0 nor greater than 9.0 standard units at any time.

In addition, the following effluent limitations shall not be exceeded at any time:

VOCs as detected by EPA Method 601	1.0 mg/l
Total VOCs	5.0 mg/l
Oil & Grease - Hydrocarbon Fraction	100 mg/l
MTBE	1.0 mg/l
Total Lead	0.1 mg/l

Effluent Limits (continued)

Arsenic	0.1 mg/l
Barium	5.0 mg/l
Beryllium	2.0 mg/l
Boron	5.0 mg/l
Cadmium	0.1 mg/l
Chromium (total)	1.0 mg/l
Chromium (hexavalent)	0.1 mg/l
Cobalt	2.0 mg/l
Copper	1.0 mg/l
Magnesium	50 mg/l
Mercury	0.005 mg/l
Nickel	1.0 mg/l
Selenium	1.0 mg/l
Silver	0.1 mg/l
Thallium	1.0 mg/l
Tin	2.0 mg/l
Vanadium	1.0 mg/l
Zinc	1.0 mg/l
Total Cyanide	0.6 mg/l
Amenable Cyanide	0.1 mg/l
Phenols	1.0 mg/l
Phthalate Esters	2.0 mg/l
Polynuclear Aromatic Hydrocarbons (PAHs)	0.5 mg/l
Base Neutral/Acid Extractables (BNAs) (Excluding PAHs)	1.0 mg/l
Pesticides	
Aldrin	1.5 µg/l
alpha-BHC	1.0 µg/l
beta-BHC	1.0 µg/l
delta-BHC	1.0 µg/l
gamma-BHC (Lindane)	2.0 µg/l
Chlordane (technical)	20 µg/l
4,4' - DDD	0.2 µg/l
4,4' - DDE	0.2 µg/l
4,4' - DDT	0.2 µg/l
Dieldrin	10 µg/l
Endosulfan I	2.0 µg/l
Endosulfan II	2.0 µg/l
Endosulfan Sulfate	2.0 µg/l
Endrin	1.0 µg/l
Endrin aldehyde	1.0 µg/l
Heptachlor	0.6 µg/l
Heptachlor epoxide	0.4 µg/l
Methoxychlor	360 µg/l
Toxaphene	10 µg/l
Chlorinated Herbicides	
2,4 D plus 2,4 DB	700 µg/l
2,4,5 T	10 µg/l
2,4,5 TP (Silvex)	10 µg/l
Dicamba	10 µg/l
PCBs	
PCB - 1016	Sum of all
PCB - 1221	detected PCBs

PCB - 1232 PCB - 1242 PCB - 1248 PCB - 1254 PCB – 1260	shall not exceed 1.0 µg/l.

Other PCBs if present must be analyzed and included in the sum.

Sampling

Prior to initiation of the discharge, the water to be discharged must be sampled in its raw state for: Total Volatile Organics plus the five most prevalent tentatively identified compounds); Oil and Grease Hydrocarbon Fraction or Total Petroleum Hydrocarbons; Oxygenates; Total Lead; and any pollutant either listed in Appendix B, Tables I, II, III, IV and V, or Appendix D of RCSA Section 22a-430-4; or any pollutant that may be toxic, hazardous, detrimental to POTW operations, pass through the POTW, or be detrimental to sludge handling operations has been used, stored, released, or disposed of on-site.

Discharge monitoring shall be conducted for:

VOCs;

Total Petroleum Hydrocarbons (If any analysis indicates concentrations in excess of listed limitations, an oily sheen is present, or the source of contamination is petroleum oil);

Total Lead (If any analysis indicates concentrations in excess of listed limitations, the site is or has been used for vehicle maintenance, or the source of contamination is gasoline); and

Any compound detected during screening analysis in concentrations that exceed municipal POTW limits or the limitations listed in this general permit.

Discharge monitoring frequency shall be monthly for discharges exceeding 5000 gallons per day and quarterly for those discharges of less than 5000 gallons per day.

Supplemental screening analysis shall be conducted semiannually for discharges exceeding 5000 gallons per day and annually for those of less than 5000 gallons per day.

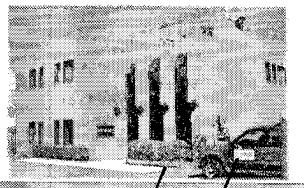
Routine visual inspections shall be required weekly, or monthly if the site is unmanned with a flow of less than 14,400 gallons per day.

Treatment	Treatment shall be required for any parameter that exceeds the limitations listed in this general permit. Treatment shall employ Best Available Technology and Professional Judgement. Treatment for VOCs shall employ either air stripping or activated carbon. Treatment for Oil and Grease shall employ either gravity separation, oil adsorbents, filtration, or any combination of the above technologies necessary. Treatment for any other pollutant shall be designed to sufficiently treat the discharge utilizing best engineering judgement and best available technology.
Other Conditions	Written approval from the receiving POTW as required in Part IV of the Registration Form required for coverage under this general permit. The registrant and other associated parties, as applicable, must certify that the discharge will meet the effluent limits in the general permit, and if there is a wastewater treatment system, that the system is designed to meet those limits. Analysis conducted to verify compliance with this general permit must be performed using methods approved in Title 40, Part 136 of the Code of Federal Regulations (40CFR136).
Permit Duration	The General Permit for the Discharge of Groundwater Remediation Wastewater will be valid for a period of ten years from the date of issuance. To renew a permit, the permittee must submit a new registration form and fee prior to the permit expiration date.
Modifications	A permittee must submit a revised ***General Permit Registration Form for the Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer*** (DEP-WD-REG-007) if the facility or process modification would render existing information on a registration which has been previously filed with the Department inaccurately.
Transfer	A general permit or registration may not be transferred.
Contact Address	WATER PERMITTING AND ENFORCEMENT DIVISION BUREAU OF MATERIALS MANAGEMENT AND COMPLIANCE ASSURANCE DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION 79 ELM STREET HARTFORD, CT 06106-5127 860-424-3018

This overview is designed to answer general questions and provide basic information. You should refer to the appropriate statutes and regulations for the specific regulatory language of the different permit programs. This document should not be relied upon to determine whether or not an environmental permit is required. It is *your* responsibility to obtain and comply with all required permits.

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

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: AMEC RECEIVED BY: CEC DATE: 10/31/13

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 2.0°
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 LL Date 10/31/13 Time 1440
7) **Location where samples are stored:** 19
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	10	8 oz amber/clear jar	
500 mL Amber	1	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	2	Non-ConTest Container	
40 mL Vial - type listed below	3	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl 3 # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
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.	T	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	NA	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted 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.	T	
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:** CEC **Date/Time:** 10/31/13

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November 19, 2013

Malcolm Beeler
AECOM Environment - Rocky Hill, CT
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067

Project Location: Greenwich Hills School
Client Job Number:
Project Number: 60225155.MISA0600
Laboratory Work Order Number: 13K0301

Enclosed are results of analyses for samples received by the laboratory on November 7, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

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

AECOM Environment - Rocky Hill, CT
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 11/19/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 60225155.MISA0600

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13K0301

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

PROJECT LOCATION: Greenwich Hills School

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-AM16	13K0301-01	Ground Water		EPA 680 Modified	
MW-AJ19	13K0301-02	Ground Water		EPA 680 Modified	

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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.

EPA 680 Modified

Qualifications:

Surrogate outside of control limits, possibly due to matrix interference, insufficient sample for reanalysis.

Analyte & Samples(s) Qualified:

Tetrachloro-m-xylene

13K0301-01[MW-AM16]

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.

Michael A. Erickson
Laboratory Director

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

Project Location: Greenwich Hills School | Sample Description: | Work Order: 13K0301

Date Received: 11/7/2013

Field Sample #: MW-AM16 | Sampled: 11/7/2013 15:00

Sample ID: 13K0301-01

Sample Matrix: Ground Water

PCB Homologues by GC/MS (Water) with Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	0.0039	0.0010	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:25	CJM
Dichlorobiphenyls	0.012	0.0010	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:25	CJM
Trichlorobiphenyls	0.0099	0.0010	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:25	CJM
Tetrachlorobiphenyls	0.0042	0.0020	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:25	CJM
Pentachlorobiphenyls	ND	0.0020	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:25	CJM
Hexachlorobiphenyls	ND	0.0020	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:25	CJM
Heptachlorobiphenyls	ND	0.0030	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:25	CJM
Octachlorobiphenyls	ND	0.0030	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:25	CJM
Nonachlorobiphenyls	ND	0.0050	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:25	CJM
Decachlorobiphenyl	ND	0.0050	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:25	CJM
Total Polychlorinated biphenyls	0.030		µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:25	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	**45.1** *	50-125	Z-01	11/18/13 19:25

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Project Location: Greenwich Hills School | Sample Description: | Work Order: 13K0301

Date Received: 11/7/2013

Field Sample #: MW-AJ19 | Sampled: 11/7/2013 15:30

Sample ID: 13K0301-02

Sample Matrix: Ground Water

PCB Homologues by GC/MS (Water) with Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.0010	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:55	CJM
Dichlorobiphenyls	0.0027	0.0010	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:55	CJM
Trichlorobiphenyls	0.0026	0.0010	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:55	CJM
Tetrachlorobiphenyls	0.0044	0.0020	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:55	CJM
Pentachlorobiphenyls	ND	0.0020	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:55	CJM
Hexachlorobiphenyls	ND	0.0020	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:55	CJM
Heptachlorobiphenyls	ND	0.0030	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:55	CJM
Octachlorobiphenyls	ND	0.0030	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:55	CJM
Nonachlorobiphenyls	ND	0.0050	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:55	CJM
Decachlorobiphenyl	ND	0.0050	µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:55	CJM
Total Polychlorinated biphenyls	0.0097		µg/L	1		EPA 680 Modified	11/14/13	11/18/13 19:55	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	51.2	50-125		11/18/13 19:55

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Sample Extraction Data

Prep Method: SW-846 3510C-EPA 680 Modified

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13K0301-01 [MW-AM16]	B085168	1000	1.00	11/14/13
13K0301-02 [MW-AJ19]	B085168	1000	1.00	11/14/13

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QUALITY CONTROL

PCB Homologues by GC/MS (Water) with Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B085168 - SW-846 3510C										
Blank (B085168-BLK1)				Prepared: 11/14/13 Analyzed: 11/18/13						
Monochlorobiphenyls	ND	0.0010	µg/L							
Dichlorobiphenyls	ND	0.0010	µg/L							
Trichlorobiphenyls	ND	0.0010	µg/L							
Tetrachlorobiphenyls	ND	0.0020	µg/L							
Pentachlorobiphenyls	ND	0.0020	µg/L							
Hexachlorobiphenyls	ND	0.0020	µg/L							
Heptachlorobiphenyls	ND	0.0030	µg/L							
Octachlorobiphenyls	ND	0.0030	µg/L							
Nonachlorobiphenyls	ND	0.0050	µg/L							
Decachlorobiphenyl	ND	0.0050	µg/L							
Total Polychlorinated biphenyls	0.0		µg/L							
Surrogate: Tetrachloro-m-xylene	*0.106*		µg/L	0.200		53.2	50-125			
LCS (B085168-BS1)				Prepared: 11/14/13 Analyzed: 11/18/13						
Monochlorobiphenyls	0.10	0.0010	µg/L	0.200		51.9	40-140			
Dichlorobiphenyls	0.11	0.0010	µg/L	0.200		56.4	40-140			
Trichlorobiphenyls	0.12	0.0010	µg/L	0.200		58.0	40-140			
Tetrachlorobiphenyls	0.25	0.0020	µg/L	0.400		61.4	40-140			
Pentachlorobiphenyls	0.24	0.0020	µg/L	0.400		61.2	40-140			
Hexachlorobiphenyls	0.24	0.0020	µg/L	0.400		60.0	40-140			
Heptachlorobiphenyls	0.37	0.0030	µg/L	0.600		61.4	40-140			
Octachlorobiphenyls	0.35	0.0030	µg/L	0.600		58.0	40-140			
Nonachlorobiphenyls	0.57	0.0050	µg/L	1.00		57.5	40-140			
Decachlorobiphenyl	0.55	0.0050	µg/L	1.00		54.6	40-140			
Surrogate: Tetrachloro-m-xylene	*0.102*		µg/L	0.200		50.8	50-125			
LCS Dup (B085168-BSD1)				Prepared: 11/14/13 Analyzed: 11/18/13						
Monochlorobiphenyls	0.14	0.0010	µg/L	0.200		71.4	40-140	31.7	50	
Dichlorobiphenyls	0.15	0.0010	µg/L	0.200		74.3	40-140	27.3	50	
Trichlorobiphenyls	0.15	0.0010	µg/L	0.200		75.6	40-140	26.4	50	
Tetrachlorobiphenyls	0.31	0.0020	µg/L	0.400		77.5	40-140	23.2	50	
Pentachlorobiphenyls	0.33	0.0020	µg/L	0.400		82.3	40-140	29.5	50	
Hexachlorobiphenyls	0.32	0.0020	µg/L	0.400		79.4	40-140	27.8	50	
Heptachlorobiphenyls	0.48	0.0030	µg/L	0.600		79.5	40-140	25.6	50	
Octachlorobiphenyls	0.45	0.0030	µg/L	0.600		74.6	40-140	25.1	50	
Nonachlorobiphenyls	0.76	0.0050	µg/L	1.00		76.4	40-140	28.3	50	
Decachlorobiphenyl	0.73	0.0050	µg/L	1.00		72.7	40-140	28.4	50	
Surrogate: Tetrachloro-m-xylene	*0.146*		µg/L	0.200		72.8	50-125			

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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.
Z-01	Surrogate outside of control limits, possibly due to matrix interference, insufficient sample for reanalysis.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

CHAIN OF CUSTODY RECORD

13K0301

Rev 04.05.12

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East longmeadow, MA 01028

Page 1 of 1

JTeeH 860 309-1638

Company Name: AECOM
Address: 500 Enterprise Dr
Attention: Malcolm Beeler
Project Location: Greenwich High School
Sampled By: J. Tamlin

Telephone: (860) 263-5800
Project # 60225155. MISA 0600
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ⊗ EMAIL ○ WEBSITE
Fax #
Email: malcolm.beeler@aecom.com; colleen.scott@aecom.com
Format: ⊗ PDF ○ EXCEL ○ GIS and ⊗ OTHER EQUIS
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code
01	MW-AM16	1500				GW		1	X	
02	MW-AJ19	1530				GW		1	X	

ANALYSIS REQUESTED
EPA Hamilton Method 680
PCB

Comments:

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

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
~~ST=sterile~~
V=vial
S=summa can
T=tedlar bag
O=Other

****Preservation**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfa
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Relinquished by: (signature)	JT 3:54	Date/Time: 11/7/13
Received by: (signature)	3:54	Date/Time: 11/7/13
Relinquished by: (signature)	7:15	Date/Time: 11/7/13
Received by: (signature)	4.9 11/7/13	Date/Time: 1825

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: GWPC
Connecticut: GWPC
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

†† 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 IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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

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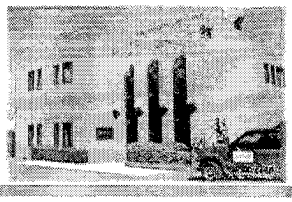

Sample Receipt Checklist

CLIENT NAME: AECOM **RECEIVED BY:** KO13 **DATE:** 11-7-13

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 4.9c

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:** 19

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	2	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 _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
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.	T	
18) There is sufficient volume for all requsted 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:** KOB **Date/Time:** 11-7-13 1925

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November 25, 2013

Malcolm Beeler
AECOM Environment - Rocky Hill, CT
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067

Project Location: Greenwich Hills School
Client Job Number:
Project Number: 60225155.MISA0600
Laboratory Work Order Number: 13K0911

Enclosed are results of analyses for samples received by the laboratory on November 21, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

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

AECOM Environment - Rocky Hill, CT
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 11/25/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 60225155.MISA0600

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13K0911

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

PROJECT LOCATION: Greenwich Hills School

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-AJ19	13K0911-01	Ground Water		EPA 680 Modified	
MW-AH16	13K0911-02	Ground Water		EPA 680 Modified	

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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.

EPA 680 Modified

Qualifications:

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

Dichlorobiphenyls, Monochlorobiphenyls, Total Polychlorinated biphenyls, Trichlorobiphenyls

13K0911-01[MW-AJ19], 13K0911-02[MW-AH16], B085819-BS1, B085819-BSD1

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

Dichlorobiphenyls, Monochlorobiphenyls, Total Polychlorinated biphenyls, Trichlorobiphenyls

13K0911-02[MW-AH16]

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

Analyte & Samples(s) Qualified:

Monochlorobiphenyls, Pentachlorobiphenyls

13K0911-01[MW-AJ19], 13K0911-02[MW-AH16]

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

Analyte & Samples(s) Qualified:

Hexachlorobiphenyls, Octachlorobiphenyls, Pentachlorobiphenyls

13K0911-01[MW-AJ19], 13K0911-02[MW-AH16], B085819-BLK1, B085819-BS1, B085819-BSD1

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

Daren J. Damboragian
Laboratory Manager

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

Project Location: Greenwich Hills School | Sample Description: | Work Order: 13K0911

Date Received: 11/21/2013

Field Sample #: MW-AJ19

Sample ID: 13K0911-01 | Start Date/Time: 11/21/2013 1:30:00PM

Sample Matrix: Ground Water | Stop Date/Time: 11/21/2013 1:40:00PM

PCB Homologues by GC/MS (Water) with Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	0.0060	0.0010	µg/L	1	V-06, B	EPA 680 Modified	11/22/13	11/25/13 11:09	CJM
Dichlorobiphenyls	0.0062	0.0010	µg/L	1	B	EPA 680 Modified	11/22/13	11/25/13 11:09	CJM
Trichlorobiphenyls	0.0094	0.0010	µg/L	1	B	EPA 680 Modified	11/22/13	11/25/13 11:09	CJM
Tetrachlorobiphenyls	0.012	0.0020	µg/L	1		EPA 680 Modified	11/22/13	11/25/13 11:09	CJM
Pentachlorobiphenyls	ND	0.0020	µg/L	1	V-20	EPA 680 Modified	11/22/13	11/25/13 11:09	CJM
Hexachlorobiphenyls	ND	0.0020	µg/L	1	V-20	EPA 680 Modified	11/22/13	11/25/13 11:09	CJM
Heptachlorobiphenyls	ND	0.0030	µg/L	1		EPA 680 Modified	11/22/13	11/25/13 11:09	CJM
Octachlorobiphenyls	ND	0.0030	µg/L	1	V-20	EPA 680 Modified	11/22/13	11/25/13 11:09	CJM
Nonachlorobiphenyls	ND	0.0050	µg/L	1		EPA 680 Modified	11/22/13	11/25/13 11:09	CJM
Decachlorobiphenyl	ND	0.0050	µg/L	1		EPA 680 Modified	11/22/13	11/25/13 11:09	CJM
Total Polychlorinated biphenyls	0.034		µg/L	1	B	EPA 680 Modified	11/22/13	11/25/13 11:09	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Tetrachloro-m-xylene	78.5	50-125		11/25/13 11:09	

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Project Location: Greenwich Hills School | Sample Description: | Work Order: 13K0911

Date Received: 11/21/2013

Field Sample #: MW-AH16

Sample ID: 13K0911-02 | Start Date/Time: 11/21/2013 2:00:00PM

Sample Matrix: Ground Water | Stop Date/Time: 11/21/2013 2:10:00PM

PCB Homologues by GC/MS (Water) with Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	52	0.0010	µg/L	1	B-07, V-06, B	EPA 680 Modified	11/22/13	11/25/13 11:39	CJM
Dichlorobiphenyls	42	0.0010	µg/L	1	B-07, B	EPA 680 Modified	11/22/13	11/25/13 11:39	CJM
Trichlorobiphenyls	6.2	0.0010	µg/L	1	B-07, B	EPA 680 Modified	11/22/13	11/25/13 11:39	CJM
Tetrachlorobiphenyls	0.62	0.0020	µg/L	1		EPA 680 Modified	11/22/13	11/25/13 11:39	CJM
Pentachlorobiphenyls	0.039	0.0020	µg/L	1	V-06	EPA 680 Modified	11/22/13	11/25/13 11:39	CJM
Hexachlorobiphenyls	ND	0.0020	µg/L	1	V-20	EPA 680 Modified	11/22/13	11/25/13 11:39	CJM
Heptachlorobiphenyls	ND	0.0030	µg/L	1		EPA 680 Modified	11/22/13	11/25/13 11:39	CJM
Octachlorobiphenyls	ND	0.0030	µg/L	1	V-20	EPA 680 Modified	11/22/13	11/25/13 11:39	CJM
Nonachlorobiphenyls	ND	0.0050	µg/L	1		EPA 680 Modified	11/22/13	11/25/13 11:39	CJM
Decachlorobiphenyl	ND	0.0050	µg/L	1		EPA 680 Modified	11/22/13	11/25/13 11:39	CJM
Total Polychlorinated biphenyls	100		µg/L	1	B-07, B	EPA 680 Modified	11/22/13	11/25/13 11:39	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Tetrachloro-m-xylene	56.4	50-125		11/25/13	11:39

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Sample Extraction Data

Prep Method: SW-846 3510C-EPA 680 Modified

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13K0911-01 [MW-AJ19]	B085819	1000	1.00	11/22/13
13K0911-02 [MW-AH16]	B085819	1000	1.00	11/22/13

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QUALITY CONTROL

PCB Homologues by GC/MS (Water) with Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B085819 - SW-846 3510C										
Blank (B085819-BLK1)				Prepared: 11/22/13 Analyzed: 11/25/13						
Monochlorobiphenyls	0.017	0.0010	µg/L							
Dichlorobiphenyls	0.013	0.0010	µg/L							
Trichlorobiphenyls	0.0020	0.0010	µg/L							
Tetrachlorobiphenyls	ND	0.0020	µg/L							
Pentachlorobiphenyls	ND	0.0020	µg/L							
Hexachlorobiphenyls	ND	0.0020	µg/L							V-20
Heptachlorobiphenyls	ND	0.0030	µg/L							
Octachlorobiphenyls	ND	0.0030	µg/L							V-20
Nonachlorobiphenyls	ND	0.0050	µg/L							
Decachlorobiphenyl	ND	0.0050	µg/L							
Total Polychlorinated biphenyls	0.032		µg/L							
Surrogate: Tetrachloro-m-xylene	*0.134*		µg/L	0.200		66.9	50-125			
LCS (B085819-BS1)				Prepared: 11/22/13 Analyzed: 11/25/13						
Monochlorobiphenyls	0.26	0.0010	µg/L	0.200		128	40-140			B
Dichlorobiphenyls	0.23	0.0010	µg/L	0.200		114	40-140			B
Trichlorobiphenyls	0.22	0.0010	µg/L	0.200		112	40-140			B
Tetrachlorobiphenyls	0.48	0.0020	µg/L	0.400		119	40-140			
Pentachlorobiphenyls	0.50	0.0020	µg/L	0.400		125	40-140			
Hexachlorobiphenyls	0.49	0.0020	µg/L	0.400		124	40-140			V-20
Heptachlorobiphenyls	0.72	0.0030	µg/L	0.600		120	40-140			
Octachlorobiphenyls	0.74	0.0030	µg/L	0.600		124	40-140			V-20
Nonachlorobiphenyls	1.2	0.0050	µg/L	1.00		118	40-140			
Decachlorobiphenyl	0.98	0.0050	µg/L	1.00		98.4	40-140			
Surrogate: Tetrachloro-m-xylene	*0.222*		µg/L	0.200		111	50-125			
LCS Dup (B085819-BSD1)				Prepared: 11/22/13 Analyzed: 11/25/13						
Monochlorobiphenyls	0.21	0.0010	µg/L	0.200		104	40-140	20.9	50	B
Dichlorobiphenyls	0.22	0.0010	µg/L	0.200		108	40-140	5.41	50	B
Trichlorobiphenyls	0.22	0.0010	µg/L	0.200		112	40-140	0.0353	50	B
Tetrachlorobiphenyls	0.47	0.0020	µg/L	0.400		119	40-140	0.642	50	
Pentachlorobiphenyls	0.52	0.0020	µg/L	0.400		131	40-140	5.04	50	
Hexachlorobiphenyls	0.52	0.0020	µg/L	0.400		129	40-140	4.54	50	V-20
Heptachlorobiphenyls	0.75	0.0030	µg/L	0.600		124	40-140	3.67	50	
Octachlorobiphenyls	0.78	0.0030	µg/L	0.600		130	40-140	4.46	50	V-20
Nonachlorobiphenyls	1.3	0.0050	µg/L	1.00		127	40-140	7.97	50	
Decachlorobiphenyl	1.1	0.0050	µg/L	1.00		114	40-140	14.5	50	
Surrogate: Tetrachloro-m-xylene	*0.199*		µg/L	0.200		99.3	50-125			

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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.
B	Analyte is found in the associated blank as well as in the sample.
B-07	Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

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Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

CHAIN OF CUSTODY RECORD

13K0911

Rev 04.05.12

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

Page 1 of 1

Company Name: AECOM
Address: 500 Enterprise Drive
Attention: Malcolm Beeler
Project Location: Greenwich High School
Sampled By:

Telephone: (860) 263-5800
Project # 60225155. MISA0600
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
Fax #
Email: malcolm.beeler@aecom.com; colleen.scott@aecom.com
Format: ☒ PDF ○ EXCEL ○ GIS ☒ OTHER EQUIS
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCB Homolog EPA 680	# of Containers	** Preservation	***Container Code
01	MW-AJ19	1330	1340		☒	GW	A	X			
02	MW-AH16	1400	1410		☒	GW	A	X			

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

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

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfa
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments:

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

Relinquished by: (signature)	Date/Time:
J. Tomlin 1445	11.21.13
Received by: (signature)	Date/Time:
Steph Mallon 1445	11-21-13
Relinquished by: (signature)	Date/Time:
Steph Mallon 1755	11.21.13
Received by: (signature)	Date/Time:
5.1° 1755	11/21/13

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 48hr RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: GWPC/SWPC
Connecticut: GWPC/SWPC
Contact M. Beeler for criteria
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

†† 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 IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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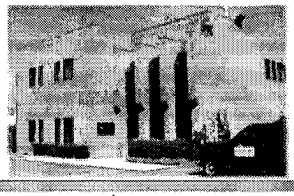

Sample Receipt Checklist

CLIENT NAME: Accom **RECEIVED BY:** JMA **DATE:** 11/21/13

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 5.1°C

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: 19

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	2	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 _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
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.	T	
18) There is sufficient volume for all requsted 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:** JMH **Date/Time:** 11/21/13 1755

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

January 8, 2014

Malcolm Beeler
AECOM Environment - Rocky Hill, CT
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067

Project Location: Greenwich Hills School
Client Job Number:
Project Number: 60225155
Laboratory Work Order Number: 13L1090

Enclosed are results of analyses for samples received by the laboratory on December 31, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

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

AECOM Environment - Rocky Hill, CT
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 1/8/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 60225155

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13L1090

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

PROJECT LOCATION: Greenwich Hills School

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-AJ19	13L1090-01	Ground Water		EPA 680 Modified	

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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.

Daren J. Damboragian
Laboratory Manager

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

Project Location: Greenwich Hills School | Sample Description: | Work Order: 13L1090

Date Received: 12/31/2013

Field Sample #: MW-AJ19 | Sampled: 12/31/2013 09:50

Sample ID: 13L1090-01

Sample Matrix: Ground Water

PCB Homologues by GC/MS (Water) with Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.0010	µg/L	1		EPA 680 Modified	1/7/14	1/8/14 12:29	CJM
Dichlorobiphenyls	ND	0.0010	µg/L	1		EPA 680 Modified	1/7/14	1/8/14 12:29	CJM
Trichlorobiphenyls	0.0034	0.0010	µg/L	1		EPA 680 Modified	1/7/14	1/8/14 12:29	CJM
Tetrachlorobiphenyls	0.015	0.0020	µg/L	1		EPA 680 Modified	1/7/14	1/8/14 12:29	CJM
Pentachlorobiphenyls	ND	0.0020	µg/L	1		EPA 680 Modified	1/7/14	1/8/14 12:29	CJM
Hexachlorobiphenyls	ND	0.0020	µg/L	1		EPA 680 Modified	1/7/14	1/8/14 12:29	CJM
Heptachlorobiphenyls	ND	0.0030	µg/L	1		EPA 680 Modified	1/7/14	1/8/14 12:29	CJM
Octachlorobiphenyls	ND	0.0030	µg/L	1		EPA 680 Modified	1/7/14	1/8/14 12:29	CJM
Nonachlorobiphenyls	ND	0.0050	µg/L	1		EPA 680 Modified	1/7/14	1/8/14 12:29	CJM
Decachlorobiphenyl	ND	0.0050	µg/L	1		EPA 680 Modified	1/7/14	1/8/14 12:29	CJM
Total Polychlorinated biphenyls	0.019		µg/L	1		EPA 680 Modified	1/7/14	1/8/14 12:29	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	67.4	50-125		1/8/14 12:29

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Sample Extraction Data

Prep Method: SW-846 3510C-EPA 680 Modified

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13L1090-01 [MW-AJ19]	B088239	1000	1.00	01/07/14

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QUALITY CONTROL

PCB Homologues by GC/MS (Water) with Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B088239 - SW-846 3510C										
Blank (B088239-BLK2)				Prepared: 01/06/14 Analyzed: 01/08/14						
Monochlorobiphenyls	ND	0.0010	µg/L							
Dichlorobiphenyls	ND	0.0010	µg/L							
Trichlorobiphenyls	ND	0.0010	µg/L							
Tetrachlorobiphenyls	ND	0.0020	µg/L							
Pentachlorobiphenyls	ND	0.0020	µg/L							
Hexachlorobiphenyls	ND	0.0020	µg/L							
Heptachlorobiphenyls	ND	0.0030	µg/L							
Octachlorobiphenyls	ND	0.0030	µg/L							
Nonachlorobiphenyls	ND	0.0050	µg/L							
Decachlorobiphenyl	ND	0.0050	µg/L							
Total Polychlorinated biphenyls	0.0		µg/L							
Surrogate: Tetrachloro-m-xylene	*0.137*		µg/L	0.200		68.4	50-125			
LCS (B088239-BS1)				Prepared: 01/06/14 Analyzed: 01/08/14						
Monochlorobiphenyls	0.15	0.0010	µg/L	0.200		76.8	40-140			
Dichlorobiphenyls	0.18	0.0010	µg/L	0.200		88.2	40-140			
Trichlorobiphenyls	0.17	0.0010	µg/L	0.200		86.0	40-140			
Tetrachlorobiphenyls	0.36	0.0020	µg/L	0.400		89.8	40-140			
Pentachlorobiphenyls	0.31	0.0020	µg/L	0.400		78.1	40-140			
Hexachlorobiphenyls	0.29	0.0020	µg/L	0.400		73.3	40-140			
Heptachlorobiphenyls	0.43	0.0030	µg/L	0.600		71.6	40-140			
Octachlorobiphenyls	0.42	0.0030	µg/L	0.600		70.1	40-140			
Nonachlorobiphenyls	0.74	0.0050	µg/L	1.00		73.9	40-140			
Decachlorobiphenyl	0.69	0.0050	µg/L	1.00		69.1	40-140			
Surrogate: Tetrachloro-m-xylene	*0.199*		µg/L	0.200		99.5	50-125			
LCS Dup (B088239-BSD1)				Prepared: 01/06/14 Analyzed: 01/08/14						
Monochlorobiphenyls	0.15	0.0010	µg/L	0.200		73.2	40-140	4.74	50	
Dichlorobiphenyls	0.17	0.0010	µg/L	0.200		83.7	40-140	5.27	50	
Trichlorobiphenyls	0.17	0.0010	µg/L	0.200		82.9	40-140	3.66	50	
Tetrachlorobiphenyls	0.34	0.0020	µg/L	0.400		85.4	40-140	4.99	50	
Pentachlorobiphenyls	0.32	0.0020	µg/L	0.400		79.8	40-140	2.11	50	
Hexachlorobiphenyls	0.30	0.0020	µg/L	0.400		75.5	40-140	2.98	50	
Heptachlorobiphenyls	0.44	0.0030	µg/L	0.600		74.2	40-140	3.53	50	
Octachlorobiphenyls	0.44	0.0030	µg/L	0.600		73.8	40-140	5.06	50	
Nonachlorobiphenyls	0.78	0.0050	µg/L	1.00		78.4	40-140	5.94	50	
Decachlorobiphenyl	0.75	0.0050	µg/L	1.00		74.6	40-140	7.66	50	
Surrogate: Tetrachloro-m-xylene	*0.171*		µg/L	0.200		85.3	50-125			

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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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

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	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

CHAIN OF CUSTODY RECORD

13L1090

Rev 04.05.12

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www.contestlabs.com
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East longmeadow, MA 01028

Page 1 of 1

Company Name: AECOM
Address: 500 Enterprise Drive
Attention: Malcolm Beder
Project Location: Greenwich High School
Sampled By: J. Tomlin

Telephone: (860) 263-5800
Project #: 60725155
Client PO#:

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #:
Email: malcolm.beder@aecom.com; colleen.scott@aecom.com
Format: ☒ PDF ○ EXCEL ○ GIS ☒ OTHER EQUIS
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCB Homolog (EPA 680)	# of Containers	** Preservation	***Container Code
01	MW-AJ19	0950	0950			GW		X			

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa 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= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments:

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

	Date/Time:
Relinquished by: (signature)	12/31 1555
Received by: (signature)	12/31/13 15:55
Relinquished by: (signature)	12/31/13 16:40
Received by: (signature) 4.8°C	12/31/13 1640

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other
RUSH † 5-Day
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut: GWPC
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

†† 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 IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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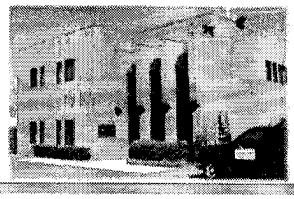

Sample Receipt Checklist

CLIENT NAME: AECOM RECEIVED BY: KOB DATE: 12-31-13

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 4.8°C

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:** 19

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	1	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 _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
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.	T	
18) There is sufficient volume for all requsted 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:** KOB **Date/Time:** 12/31/13 1640

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

January 24, 2014

Bob Dwyer
AMEC LLC- Norwalk CT
270 Main Avenue
Norwalk, CT 06851

Project Location: Greenwich High School
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 14A0403

Enclosed are results of analyses for samples received by the laboratory on January 14, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

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

AMEC LLC- Norwalk CT
270 Main Avenue
Norwalk, CT 06851
ATTN: Bob Dwyer

REPORT DATE: 1/24/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14A0403

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

PROJECT LOCATION: Greenwich High School

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
011414 GHS Discharge	14A0403-01	Water		EPA 1664A/B	
				EPA 200.7	
				EPA 245.1	
				EPA 420.1	
				EPA 608	
				EPA 624	
				EPA 625	
				SM18-20 3500 Cr B/D	
				SM18-20 4500 CN E	
				SM18-20 4500 CN G	
				SW-846 8151A	
011414 GHS TB	14A0403-02	Trip Blank Water		EPA 624	

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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.

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

EPA 608

Qualifications:

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

Analyte & Samples(s) Qualified:

delta-BHC

B088958-BS1, B088958-BSD1

EPA 625

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

2-Chloronaphthalene, Hexachlorocyclopentadiene, Hexachloroethane, N-Nitrosodimethylamine

14A0403-01[011414 GHS Discharge], B088876-BLK1, B088876-BS1, B088876-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,2-Diphenylhydrazine (as Azobenzene), 1,4-Dichlorobenzene, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chlorophenol, 2-Nitrophenol, 4-Bromophenylphenylether, 4-Chloro-3-methylphenol, 4-Chlorophenylphenylether, Acenaphthene, Acenaphthylene, Anthracene, Benzidine, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-chloroisopropyl)ether, Chrysene, Fluoranthene, Fluorene, Hexachlorobutadiene, Isophorone, Naphthalene, Nitrobenzene, N-Nitrosodi-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, Pyrene

B088876-BS1

Sample was re-extracted outside of holding time since surrogate standard recovery was outside of control limits. Data from analysis performed outside of holding time is also reported since surrogate recovery is acceptable.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol, 2-Fluorobiphenyl, 2-Fluorophenol, Nitrobenzene-d5, Phenol-d6, p-Terphenyl-d14

B088876-BS1

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.

Analyte & Samples(s) Qualified:

Benzidine

14A0403-01[011414 GHS Discharge], 14A0403-01RE1[011414 GHS Discharge], B088876-BLK1, B088876-BS1, B088876-BSD1, B089171-BLK1, B089171-BS1, B089171-BSD1

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

Analyte & Samples(s) Qualified:

Di-n-octylphthalate

14A0403-01[011414 GHS Discharge], 14A0403-01RE1[011414 GHS Discharge], B088876-BLK1, B088876-BS1, B088876-BSD1, B089171-BLK1, B089171-BS1, B089171-BSD1

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

Analyte & Samples(s) Qualified:

2,4-Dinitrotoluene, Benzidine

B089171-BS1, B089171-BSD1

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

Analyte & Samples(s) Qualified:

2,4-Dinitrotoluene, Benzidine

14A0403-01RE1[011414 GHS Discharge], B089171-BLK1

Sample 14A0403-01 was re-extracted past the recommended holding time due to original batch QC failure. Both sets of data are reported.

Analyte & Samples(s) Qualified:

14A0403-01[011414 GHS Discharge], 14A0403-01RE1[011414 GHS Discharge]

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.

Michael A. Erickson
Laboratory Director

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

Project Location: Greenwich High School | Sample Description: | Work Order: 14A0403

Date Received: 1/14/2014

Field Sample #: 011414 GHS Discharge | Sampled: 1/14/2014 13:00

Sample ID: 14A0403-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 16:22	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		1/15/14 16:22
Toluene-d8	97.6	70-130		1/15/14 16:22
4-Bromofluorobenzene	94.1	70-130		1/15/14 16:22

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

Project Location: Greenwich High School | Sample Description: | Work Order: 14A0403

Date Received: 1/14/2014

Field Sample #: 011414 GHS Discharge | Sampled: 1/14/2014 13:00

Sample ID: 14A0403-01

Sample Matrix: Water

Sample Flags: Z-01

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Acenaphthene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Acenaphthylene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Acenaphthylene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Anthracene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Anthracene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Benzidine	ND	22	µg/L	1	V-04	EPA 625	1/17/14	1/22/14 1:21	CMR
Benzidine	ND	20	µg/L	1	V-04, V-20	EPA 625	1/22/14	1/23/14 12:49	CMR
Benzo(a)anthracene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Benzo(a)anthracene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Benzo(a)pyrene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Benzo(a)pyrene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Benzo(b)fluoranthene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Benzo(b)fluoranthene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Benzo(g,h,i)perylene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Benzo(k)fluoranthene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Benzo(k)fluoranthene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
4-Bromophenylphenylether	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
4-Bromophenylphenylether	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Butylbenzylphthalate	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Butylbenzylphthalate	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
4-Chloro-3-methylphenol	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
4-Chloro-3-methylphenol	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Bis(2-chloroethoxy)methane	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Bis(2-chloroethyl)ether	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Bis(2-chloroethyl)ether	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Bis(2-chloroisopropyl)ether	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
2-Chloronaphthalene	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
2-Chloronaphthalene	ND	11	µg/L	1	L-04	EPA 625	1/17/14	1/22/14 1:21	CMR
2-Chlorophenol	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
2-Chlorophenol	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
4-Chlorophenylphenylether	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
4-Chlorophenylphenylether	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Chrysene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Chrysene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Dibenz(a,h)anthracene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Di-n-butylphthalate	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Di-n-butylphthalate	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
1,3-Dichlorobenzene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
1,3-Dichlorobenzene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR

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

Project Location: Greenwich High School | Sample Description: | Work Order: 14A0403

Date Received: 1/14/2014

Field Sample #: 011414 GHS Discharge | Sampled: 1/14/2014 13:00

Sample ID: 14A0403-01

Sample Matrix: Water

Sample Flags: Z-01

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dichlorobenzene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
1,4-Dichlorobenzene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
1,2-Dichlorobenzene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
1,2-Dichlorobenzene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
3,3-Dichlorobenzidine	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
3,3-Dichlorobenzidine	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
2,4-Dichlorophenol	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
2,4-Dichlorophenol	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Diethylphthalate	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Diethylphthalate	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
2,4-Dimethylphenol	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
2,4-Dimethylphenol	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Dimethylphthalate	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Dimethylphthalate	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
4,6-Dinitro-2-methylphenol	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
2,4-Dinitrophenol	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
2,4-Dinitrophenol	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
2,4-Dinitrotoluene	ND	10	µg/L	1	V-20	EPA 625	1/22/14	1/23/14 12:49	CMR
2,4-Dinitrotoluene	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
2,6-Dinitrotoluene	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
2,6-Dinitrotoluene	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Di-n-octylphthalate	ND	11	µg/L	1	V-05	EPA 625	1/17/14	1/22/14 1:21	CMR
Di-n-octylphthalate	ND	10	µg/L	1	V-05	EPA 625	1/22/14	1/23/14 12:49	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Bis(2-Ethylhexyl)phthalate	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Fluoranthene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Fluoranthene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Fluorene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Fluorene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Hexachlorobenzene	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Hexachlorobenzene	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Hexachlorobutadiene	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Hexachlorobutadiene	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Hexachlorocyclopentadiene	ND	11	µg/L	1	L-04	EPA 625	1/17/14	1/22/14 1:21	CMR
Hexachlorocyclopentadiene	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Hexachloroethane	ND	11	µg/L	1	L-04	EPA 625	1/17/14	1/22/14 1:21	CMR
Hexachloroethane	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Indeno(1,2,3-cd)pyrene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Isophorone	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Isophorone	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR

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

Project Location: Greenwich High School | Sample Description: | Work Order: 14A0403

Date Received: 1/14/2014

Field Sample #: 011414 GHS Discharge | Sampled: 1/14/2014 13:00

Sample ID: 14A0403-01

Sample Matrix: Water

Sample Flags: Z-01

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Naphthalene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Nitrobenzene	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Nitrobenzene	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
2-Nitrophenol	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
2-Nitrophenol	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
4-Nitrophenol	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
4-Nitrophenol	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
N-Nitrosodimethylamine	ND	11	µg/L	1	L-04	EPA 625	1/17/14	1/22/14 1:21	CMR
N-Nitrosodimethylamine	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
N-Nitrosodiphenylamine	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
N-Nitrosodiphenylamine	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
N-Nitrosodi-n-propylamine	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Pentachlorophenol	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Pentachlorophenol	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Phenanthrene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Phenanthrene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Phenol	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Phenol	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
Pyrene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
Pyrene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
1,2,4-Trichlorobenzene	ND	5.6	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR
2,4,6-Trichlorophenol	ND	10	µg/L	1		EPA 625	1/22/14	1/23/14 12:49	CMR
2,4,6-Trichlorophenol	ND	11	µg/L	1		EPA 625	1/17/14	1/22/14 1:21	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	46.8	15-110		1/23/14 12:49
2-Fluorophenol	40.8	15-110		1/22/14 1:21
Phenol-d6	27.2	15-110		1/22/14 1:21
Phenol-d6	31.3	15-110		1/23/14 12:49
Nitrobenzene-d5	57.1	30-130		1/22/14 1:21
Nitrobenzene-d5	62.6	30-130		1/23/14 12:49
2-Fluorobiphenyl	57.0	30-130		1/23/14 12:49
2-Fluorobiphenyl	54.2	30-130		1/22/14 1:21
2,4,6-Tribromophenol	81.9	15-110		1/22/14 1:21
2,4,6-Tribromophenol	96.7	15-110		1/23/14 12:49
p-Terphenyl-d14	81.8	30-130		1/22/14 1:21
p-Terphenyl-d14	78.4	30-130		1/23/14 12:49

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

Project Location: Greenwich High School | Sample Description: | Work Order: 14A0403

Date Received: 1/14/2014

Field Sample #: 011414 GHS Discharge | Sampled: 1/14/2014 13:00

Sample ID: 14A0403-01

Sample Matrix: Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aldrin [1]	ND	0.050	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB
alpha-BHC [1]	ND	0.050	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB
beta-BHC [1]	ND	0.050	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB
delta-BHC [1]	ND	0.050	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB
gamma-BHC (Lindane) [1]	ND	0.030	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB
Chlordane [1]	ND	0.20	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB
4,4'-DDD [1]	ND	0.080	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB
4,4'-DDE [1]	ND	0.040	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB
4,4'-DDT [1]	ND	0.080	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB
Dieldrin [1]	ND	0.0020	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB
Endosulfan I [1]	ND	0.050	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB
Endosulfan II [1]	ND	0.080	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB
Endosulfan sulfate [1]	ND	0.080	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB
Endrin [1]	ND	0.080	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB
Endrin aldehyde [1]	ND	0.080	µg/L	1		EPA 608	1/18/14	1/21/14 7:19	JMB
Endrin ketone [1]	ND	0.080	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB
Heptachlor [1]	ND	0.050	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB
Heptachlor epoxide [1]	ND	0.050	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB
Methoxychlor [1]	ND	0.50	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB
Toxaphene [1]	ND	1.0	µg/L	1		EPA 608	1/18/14	1/21/14 0:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.2	30-150		1/21/14 0:10
Decachlorobiphenyl [2]	82.9	30-150		1/21/14 0:10
Tetrachloro-m-xylene [1]	77.9	30-150		1/21/14 0:10
Tetrachloro-m-xylene [2]	76.0	30-150		1/21/14 0:10

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Project Location: Greenwich High School | Sample Description: | Work Order: 14A0403

Date Received: 1/14/2014

Field Sample #: 011414 GHS Discharge | Sampled: 1/14/2014 13:00

Sample ID: 14A0403-01

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		EPA 608	1/18/14	1/20/14 20:48	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		EPA 608	1/18/14	1/20/14 20:48	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		EPA 608	1/18/14	1/20/14 20:48	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		EPA 608	1/18/14	1/20/14 20:48	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		EPA 608	1/18/14	1/20/14 20:48	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		EPA 608	1/18/14	1/20/14 20:48	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		EPA 608	1/18/14	1/20/14 20:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	103	30-150		1/20/14 20:48
Decachlorobiphenyl [2]	99.6	30-150		1/20/14 20:48
Tetrachloro-m-xylene [1]	78.2	30-150		1/20/14 20:48
Tetrachloro-m-xylene [2]	81.5	30-150		1/20/14 20:48

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Project Location: Greenwich High School | Sample Description: | Work Order: 14A0403

Date Received: 1/14/2014

Field Sample #: 011414 GHS Discharge | Sampled: 1/14/2014 13:00

Sample ID: 14A0403-01

Sample Matrix: Water

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	0.77	0.50	µg/L	1		SW-846 8151A	1/17/14	1/21/14 8:58	JMB
2,4,5-TP (Silvex) [1]	ND	0.050	µg/L	1		SW-846 8151A	1/17/14	1/21/14 8:58	JMB
2,4,5-T [1]	ND	0.10	µg/L	1		SW-846 8151A	1/17/14	1/21/14 8:58	JMB
Dalalpon [1]	ND	1.2	µg/L	1		SW-846 8151A	1/17/14	1/21/14 8:58	JMB
Dicamba [1]	ND	0.050	µg/L	1		SW-846 8151A	1/17/14	1/21/14 8:58	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2,4-Dichlorophenylacetic acid [1]	120	30-150		1/21/14	8:58
2,4-Dichlorophenylacetic acid [2]	111	30-150		1/21/14	8:58

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Project Location: Greenwich High School | Sample Description: | Work Order: 14A0403

Date Received: 1/14/2014

Field Sample #: 011414 GHS Discharge | Sampled: 1/14/2014 13:00

Sample ID: 14A0403-01

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	0.025	0.010	mg/L	1		EPA 200.7	1/17/14	1/20/14 13:23	OP
Barium	0.23	0.10	mg/L	1		EPA 200.7	1/17/14	1/20/14 13:23	OP
Beryllium	ND	0.0020	mg/L	1		EPA 200.7	1/17/14	1/20/14 13:23	OP
Cadmium	ND	0.0010	mg/L	1		EPA 200.7	1/17/14	1/20/14 13:23	OP
Chromium	ND	0.0070	mg/L	1		EPA 200.7	1/17/14	1/20/14 13:23	OP
Cobalt	ND	0.010	mg/L	1		EPA 200.7	1/17/14	1/20/14 13:23	OP
Copper	ND	0.0050	mg/L	1		EPA 200.7	1/17/14	1/20/14 13:23	OP
Lead	0.0058	0.0050	mg/L	1		EPA 200.7	1/17/14	1/20/14 17:40	OP
Magnesium	17	0.050	mg/L	1		EPA 200.7	1/17/14	1/20/14 13:23	OP
Mercury	ND	0.00010	mg/L	1		EPA 245.1	1/15/14	1/15/14 13:40	SAJ
Nickel	ND	0.0050	mg/L	1		EPA 200.7	1/17/14	1/20/14 13:23	OP
Selenium	ND	0.050	mg/L	1		EPA 200.7	1/17/14	1/20/14 17:40	OP
Silver	ND	0.010	mg/L	1		EPA 200.7	1/17/14	1/20/14 13:23	OP
Thallium	ND	0.060	mg/L	1		EPA 200.7	1/17/14	1/20/14 13:23	OP
Vanadium	ND	0.010	mg/L	1		EPA 200.7	1/17/14	1/20/14 13:23	OP
Zinc	0.033	0.010	mg/L	1		EPA 200.7	1/17/14	1/20/14 13:23	OP
Boron	ND	0.10	mg/L	1		EPA 200.7	1/17/14	1/20/14 13:23	OP

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Project Location: Greenwich High School | Sample Description: | Work Order: 14A0403

Date Received: 1/14/2014

Field Sample #: 011414 GHS Discharge | Sampled: 1/14/2014 13:00

Sample ID: 14A0403-01

Sample Matrix: Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	mg/L	1		SM18-20 4500 CN E	1/15/14	1/16/14 12:20	VAK
Cyanide (amenable)	ND	0.010	mg/L	1		SM18-20 4500 CN G	1/16/14	1/17/14 10:30	VLA
Hexavalent Chromium	ND	0.0040	mg/L	1		SM18-20 3500 Cr B/D	1/14/14	1/14/14 22:24	DJM
Phenol	ND	0.050	mg/L	1		EPA 420.1	1/20/14	1/21/14 12:00	LL
Silica Gel Treated HEM (SGT-HEM)	ND	1.6	mg/L	1		EPA 1664A/B	1/15/14	1/15/14 12:45	LL

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Project Location: Greenwich High School | Sample Description: | Work Order: 14A0403

Date Received: 1/14/2014

Field Sample #: 011414 GHS TB | Sampled: 1/14/2014 13:00

Sample ID: 14A0403-02

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
Bromoform	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
Bromomethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
Chloroethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
Chloroform	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
Chloromethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
Toluene	ND	1.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
m+p Xylene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD
o-Xylene	ND	2.0	µg/L	1		EPA 624	1/15/14	1/15/14 15:19	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		1/15/14 15:19
Toluene-d8	97.9	70-130		1/15/14 15:19
4-Bromofluorobenzene	93.7	70-130		1/15/14 15:19

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

Sample Extraction Data

EPA 1664A/B

Lab Number [Field ID]	Batch	Initial [mL]	Date
14A0403-01 [011414 GHS Discharge]	B088719	850	01/15/14

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14A0403-01 [011414 GHS Discharge]	B088938	50.0	50.0	01/17/14

Prep Method: EPA 245.1-EPA 245.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14A0403-01 [011414 GHS Discharge]	B088730	6.00	6.00	01/15/14

EPA 420.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14A0403-01 [011414 GHS Discharge]	B088992	50.0	50.0	01/20/14

Prep Method: SW-846 3510C-EPA 608

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14A0403-01 [011414 GHS Discharge]	B088958	1000	10.0	01/18/14

Prep Method: SW-846 3510C-EPA 608

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14A0403-01 [011414 GHS Discharge]	B088959	1000	10.0	01/18/14

Prep Method: SW-846 5030B-EPA 624

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14A0403-01 [011414 GHS Discharge]	B088747	5	5.00	01/15/14
14A0403-02 [011414 GHS TB]	B088747	5	5.00	01/15/14

Prep Method: SW-846 3510C-EPA 625

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14A0403-01 [011414 GHS Discharge]	B088876	900	1.00	01/17/14

Prep Method: SW-846 3510C-EPA 625

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14A0403-01RE1 [011414 GHS Discharge]	B089171	1000	1.00	01/22/14

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

Sample Extraction Data

SM18-20 3500 Cr B/D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14A0403-01 [011414 GHS Discharge]	B088706	50.0	50.0	01/14/14

SM18-20 4500 CN E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14A0403-01 [011414 GHS Discharge]	B088776	50.0	50.0	01/15/14

SM18-20 4500 CN G

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14A0403-01 [011414 GHS Discharge]	B088888	50.0	50.0	01/16/14

Prep Method: SW-846 3510C-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14A0403-01 [011414 GHS Discharge]	B088895	1000	5.00	01/17/14

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B088747 - SW-846 5030B										
Blank (B088747-BLK1)				Prepared: 01/14/14 Analyzed: 01/15/14						
Benzene	ND	1.0	µg/L							
Bromodichloromethane	ND	2.0	µg/L							
Bromoform	ND	2.0	µg/L							
Bromomethane	ND	2.0	µg/L							
Carbon Tetrachloride	ND	2.0	µg/L							
Chlorobenzene	ND	2.0	µg/L							
Chlorodibromomethane	ND	2.0	µg/L							
Chloroethane	ND	2.0	µg/L							
2-Chloroethyl Vinyl Ether	ND	10	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
1,2-Dichlorobenzene	ND	2.0	µg/L							
1,3-Dichlorobenzene	ND	2.0	µg/L							
1,4-Dichlorobenzene	ND	2.0	µg/L							
1,2-Dichloroethane	ND	2.0	µg/L							
1,1-Dichloroethane	ND	2.0	µg/L							
1,1-Dichloroethylene	ND	2.0	µg/L							
trans-1,2-Dichloroethylene	ND	2.0	µg/L							
1,2-Dichloropropane	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	2.0	µg/L							
trans-1,3-Dichloropropene	ND	2.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L							
Tetrachloroethylene	ND	2.0	µg/L							
Toluene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	2.0	µg/L							
1,1,2-Trichloroethane	ND	2.0	µg/L							
Trichloroethylene	ND	2.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*25.6*		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	*23.5*		µg/L	25.0		94.1	70-130			
LCS (B088747-BS1)				Prepared: 01/14/14 Analyzed: 01/15/14						
Benzene	10.2	1.0	µg/L	10.0		102	37-151			
Bromodichloromethane	8.66	2.0	µg/L	10.0		86.6	35-155			
Bromoform	6.22	2.0	µg/L	10.0		62.2	45-169			
Bromomethane	14.2	2.0	µg/L	10.0		142	20-242			
Carbon Tetrachloride	8.26	2.0	µg/L	10.0		82.6	70-140			
Chlorobenzene	9.76	2.0	µg/L	10.0		97.6	37-160			
Chlorodibromomethane	7.23	2.0	µg/L	10.0		72.3	53-149			
Chloroethane	10.0	2.0	µg/L	10.0		100	70-130			
2-Chloroethyl Vinyl Ether	101	10	µg/L	100		101	10-305			
Chloroform	10.1	2.0	µg/L	10.0		101	51-138			
Chloromethane	10.5	2.0	µg/L	10.0		105	20-273			
1,2-Dichlorobenzene	9.53	2.0	µg/L	10.0		95.3	18-190			
1,3-Dichlorobenzene	9.56	2.0	µg/L	10.0		95.6	59-156			

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B088747 - SW-846 5030B										
LCS (B088747-BS1)				Prepared: 01/14/14 Analyzed: 01/15/14						
1,4-Dichlorobenzene	9.34	2.0	µg/L	10.0		93.4	18-190			
1,2-Dichloroethane	10.2	2.0	µg/L	10.0		102	49-155			
1,1-Dichloroethane	10.0	2.0	µg/L	10.0		100	59-155			
1,1-Dichloroethylene	11.0	2.0	µg/L	10.0		110	20-234			
trans-1,2-Dichloroethylene	10.4	2.0	µg/L	10.0		104	54-156			
1,2-Dichloropropane	9.43	2.0	µg/L	10.0		94.3	20-210			
cis-1,3-Dichloropropene	7.65	2.0	µg/L	10.0		76.5	20-227			
trans-1,3-Dichloropropene	6.21	2.0	µg/L	10.0		62.1	17-183			
Ethylbenzene	9.83	2.0	µg/L	10.0		98.3	37-162			
Methyl tert-Butyl Ether (MTBE)	8.54	2.0	µg/L	10.0		85.4	70-130			
Methylene Chloride	10.7	5.0	µg/L	10.0		107	50-221			
1,1,2,2-Tetrachloroethane	8.65	2.0	µg/L	10.0		86.5	46-157			
Tetrachloroethylene	10.2	2.0	µg/L	10.0		102	64-148			
Toluene	10.2	1.0	µg/L	10.0		102	47-150			
1,1,1-Trichloroethane	8.46	2.0	µg/L	10.0		84.6	52-162			
1,1,2-Trichloroethane	9.84	2.0	µg/L	10.0		98.4	52-150			
Trichloroethylene	11.2	2.0	µg/L	10.0		112	71-157			
Trichlorofluoromethane (Freon 11)	11.3	2.0	µg/L	10.0		113	17-181			
Vinyl Chloride	11.4	2.0	µg/L	10.0		114	20-251			
m+p Xylene	20.1	2.0	µg/L	20.0		101	70-130			
o-Xylene	9.65	2.0	µg/L	10.0		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.0*		µg/L	25.0		99.9	70-130			
Surrogate: Toluene-d8	*25.4*		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	*24.7*		µg/L	25.0		98.8	70-130			

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

QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B088876 - SW-846 3510C										
Blank (B088876-BLK1)				Prepared: 01/17/14 Analyzed: 01/21/14						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzidine	ND	20	µg/L							V-04
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							L-04
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-05
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							L-04
Hexachloroethane	ND	10	µg/L							L-04
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							L-04
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B088876 - SW-846 3510C											
Blank (B088876-BLK1)				Prepared: 01/17/14 Analyzed: 01/21/14							
Phenanthrene	ND	5.0	µg/L								
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	µg/L								
1,2,4-Trichlorobenzene	ND	5.0	µg/L								
2,4,6-Trichlorophenol	ND	10	µg/L								
Surrogate: 2-Fluorophenol	*88.0*		µg/L	200		44.0		15-110			
Surrogate: Phenol-d6	*59.7*		µg/L	200		29.9		15-110			
Surrogate: Nitrobenzene-d5	*63.7*		µg/L	100		63.7		30-130			
Surrogate: 2-Fluorobiphenyl	*57.0*		µg/L	100		57.0		30-130			
Surrogate: 2,4,6-Tribromophenol	*186*		µg/L	200		93.2		15-110			
Surrogate: p-Terphenyl-d14	*98.6*		µg/L	100		98.6		30-130			
LCS (B088876-BS1)				Prepared: 01/17/14 Analyzed: 01/21/14							
Acenaphthene	6.54	5.0	µg/L	100		**6.54**	*	47-145			L-07
Acenaphthylene	6.38	5.0	µg/L	100		**6.38**	*	33-145			L-07
Anthracene	10.2	5.0	µg/L	100		**10.2**	*	27-133			L-07
Benzidine	ND	20	µg/L	100			*	40-140			L-07, V-04
Benzo(a)anthracene	11.3	5.0	µg/L	100		**11.3**	*	33-143			L-07
Benzo(a)pyrene	10.8	5.0	µg/L	100		**10.8**	*	17-163			L-07
Benzo(b)fluoranthene	9.71	5.0	µg/L	100		**9.71**	*	24-159			L-07
Benzo(g,h,i)perylene	15.0	5.0	µg/L	100		15.0		1-219			
Benzo(k)fluoranthene	9.81	5.0	µg/L	100		**9.81**	*	11-162			L-07
4-Bromophenylphenylether	8.69	10	µg/L	100		**8.69**	*	53-127			L-07
Butylbenzylphthalate	11.7	10	µg/L	100		11.7		1-152			
4-Chloro-3-methylphenol	7.10	10	µg/L	100		**7.10**	*	22-147			L-07
Bis(2-chloroethoxy)methane	6.03	10	µg/L	100		**6.03**	*	33-184			L-07
Bis(2-chloroethyl)ether	ND	10	µg/L	100			*	12-158			L-07
Bis(2-chloroisopropyl)ether	ND	10	µg/L	100			*	36-166			L-07
2-Chloronaphthalene	4.72	10	µg/L	100		**4.72**	*	60-118			L-04
2-Chlorophenol	4.94	10	µg/L	100		**4.94**	*	23-134			L-07
4-Chlorophenylphenylether	8.65	10	µg/L	100		**8.65**	*	25-158			L-07
Chrysene	10.6	5.0	µg/L	100		**10.6**	*	17-168			L-07
Dibenz(a,h)anthracene	13.6	5.0	µg/L	100		13.6		1-227			
Di-n-butylphthalate	11.2	10	µg/L	100		11.2		1-118			
1,3-Dichlorobenzene	3.90	5.0	µg/L	100		3.90		1-172			
1,4-Dichlorobenzene	4.01	5.0	µg/L	100		**4.01**	*	20-124			L-07
1,2-Dichlorobenzene	4.39	5.0	µg/L	100		**4.39**	*	32-129			L-07
3,3-Dichlorobenzidine	11.1	10	µg/L	100		11.1		1-262			
2,4-Dichlorophenol	5.96	10	µg/L	100		**5.96**	*	39-135			L-07
Diethylphthalate	12.0	10	µg/L	100		12.0		1-114			
2,4-Dimethylphenol	5.96	10	µg/L	100		**5.96**	*	32-119			L-07
Dimethylphthalate	9.90	10	µg/L	100		9.90		1-112			
4,6-Dinitro-2-methylphenol	9.54	10	µg/L	100		9.54		1-181			
2,4-Dinitrophenol	10.0	10	µg/L	100		10.0		1-191			
2,4-Dinitrotoluene	12.1	10	µg/L	100		**12.1**	*	39-139			L-07
2,6-Dinitrotoluene	10.0	10	µg/L	100		**10.0**	*	50-158			L-07
Di-n-octylphthalate	8.80	10	µg/L	100		8.80		4-146			V-05
1,2-Diphenylhydrazine (as Azobenzene)	7.40	10	µg/L	100		**7.40**	*	40-140			L-07
Bis(2-Ethylhexyl)phthalate	11.9	10	µg/L	100		11.9		8-158			
Fluoranthene	9.99	5.0	µg/L	100		**9.99**	*	26-137			L-07
Fluorene	8.78	5.0	µg/L	100		**8.78**	*	59-121			L-07
Hexachlorobenzene	9.64	10	µg/L	100		9.64		1-152			

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B088876 - SW-846 3510C											
LCS (B088876-BS1)				Prepared: 01/17/14 Analyzed: 01/21/14							
Hexachlorobutadiene	3.55	10	µg/L	100		**3.55**	*	24-116			L-07
Hexachlorocyclopentadiene	ND	10	µg/L	100			*	40-140			L-04
Hexachloroethane	ND	10	µg/L	100			*	40-113			L-04
Indeno(1,2,3-cd)pyrene	14.1	5.0	µg/L	100		14.1		1-171			
Isophorone	5.93	10	µg/L	100		**5.93**	*	21-196			L-07
Naphthalene	5.29	5.0	µg/L	100		**5.29**	*	21-133			L-07
Nitrobenzene	5.18	10	µg/L	100		**5.18**	*	35-180			L-07
2-Nitrophenol	5.11	10	µg/L	100		**5.11**	*	29-182			L-07
4-Nitrophenol	7.07	10	µg/L	100		7.07		1-132			
N-Nitrosodimethylamine	ND	10	µg/L	100			*	40-140			L-04
N-Nitrosodiphenylamine	10.5	10	µg/L	100		**10.5**	*	40-140			L-07
N-Nitrosodi-n-propylamine	ND	10	µg/L	100			*	1-230			L-07
Pentachlorophenol	10.9	10	µg/L	100		**10.9**	*	14-176			L-07
Phenanthrene	10.0	5.0	µg/L	100		**10.0**	*	54-120			L-07
Phenol	ND	10	µg/L	100			*	5-112			L-07
Pyrene	14.8	5.0	µg/L	100		**14.8**	*	52-115			L-07
1,2,4-Trichlorobenzene	4.39	5.0	µg/L	100		**4.39**	*	44-142			L-07
2,4,6-Trichlorophenol	6.10	10	µg/L	100		**6.10**	*	37-144			L-07
Surrogate: 2-Fluorophenol	*6.90*		µg/L	200		**3.45**	*	15-110			S-10
Surrogate: Phenol-d6	*5.07*		µg/L	200		**2.54**	*	15-110			S-10
Surrogate: Nitrobenzene-d5	*5.11*		µg/L	100		**5.11**	*	30-130			S-10
Surrogate: 2-Fluorobiphenyl	*5.23*		µg/L	100		**5.23**	*	30-130			S-10
Surrogate: 2,4,6-Tribromophenol	*25.6*		µg/L	200		**12.8**	*	15-110			S-10
Surrogate: p-Terphenyl-d14	*14.2*		µg/L	100		**14.2**	*	30-130			S-10
LCS Dup (B088876-BSD1)				Prepared: 01/17/14 Analyzed: 01/21/14							
Acenaphthene	65.2	5.0	µg/L	100		65.2		47-145	164		
Acenaphthylene	64.2	5.0	µg/L	100		64.2		33-145	164		
Anthracene	69.2	5.0	µg/L	100		69.2		27-133	149		
Benzidine	50.3	20	µg/L	100		50.3		40-140	155		V-04
Benzo(a)anthracene	71.0	5.0	µg/L	100		71.0		33-143	145		
Benzo(a)pyrene	68.2	5.0	µg/L	100		68.2		17-163	145		
Benzo(b)fluoranthene	62.7	5.0	µg/L	100		62.7		24-159	146		
Benzo(g,h,i)perylene	75.4	5.0	µg/L	100		75.4		1-219	134		
Benzo(k)fluoranthene	63.2	5.0	µg/L	100		63.2		11-162	146		
4-Bromophenylphenylether	65.4	10	µg/L	100		65.4		53-127	153		
Butylbenzylphthalate	64.7	10	µg/L	100		64.7		1-152	139		
4-Chloro-3-methylphenol	70.4	10	µg/L	100		70.4		22-147	163		
Bis(2-chloroethoxy)methane	67.3	10	µg/L	100		67.3		33-184	167		
Bis(2-chloroethyl)ether	70.0	10	µg/L	100		70.0		12-158	171		
Bis(2-chloroisopropyl)ether	66.7	10	µg/L	100		66.7		36-166	171		
2-Chloronaphthalene	52.9	10	µg/L	100		**52.9**	*	60-118	167		L-04
2-Chlorophenol	66.0	10	µg/L	100		66.0		23-134	172		
4-Chlorophenylphenylether	71.0	10	µg/L	100		71.0		25-158	157		
Chrysene	66.7	5.0	µg/L	100		66.7		17-168	145		
Dibenz(a,h)anthracene	74.9	5.0	µg/L	100		74.9		1-227	138		
Di-n-butylphthalate	68.8	10	µg/L	100		68.8		1-118	144		
1,3-Dichlorobenzene	46.6	5.0	µg/L	100		46.6		1-172	169		
1,4-Dichlorobenzene	47.9	5.0	µg/L	100		47.9		20-124	169		
1,2-Dichlorobenzene	51.5	5.0	µg/L	100		51.5		32-129	169		
3,3-Dichlorobenzidine	74.5	10	µg/L	100		74.5		1-262	148		
2,4-Dichlorophenol	72.2	10	µg/L	100		72.2		39-135	169		

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B088876 - SW-846 3510C											
LCS Dup (B088876-BSD1)				Prepared: 01/17/14 Analyzed: 01/21/14							
Diethylphthalate	76.4	10	µg/L	100		76.4		1-114	146		
2,4-Dimethylphenol	73.1	10	µg/L	100		73.1		32-119	170		
Dimethylphthalate	71.4	10	µg/L	100		71.4		1-112	151		
4,6-Dinitro-2-methylphenol	65.3	10	µg/L	100		65.3		1-181	149		
2,4-Dinitrophenol	74.1	10	µg/L	100		74.1		1-191	152		
2,4-Dinitrotoluene	79.2	10	µg/L	100		79.2		39-139	147		
2,6-Dinitrotoluene	74.3	10	µg/L	100		74.3		50-158	152		
Di-n-octylphthalate	51.6	10	µg/L	100		51.6		4-146	142		V-05
1,2-Diphenylhydrazine (as Azobenzene)	58.9	10	µg/L	100		58.9		40-140	155		
Bis(2-Ethylhexyl)phthalate	69.5	10	µg/L	100		69.5		8-158	142		
Fluoranthene	69.6	5.0	µg/L	100		69.6		26-137	150		
Fluorene	71.8	5.0	µg/L	100		71.8		59-121	156		
Hexachlorobenzene	69.5	10	µg/L	100		69.5		1-152	151		
Hexachlorobutadiene	38.8	10	µg/L	100		38.8		24-116	166		
Hexachlorocyclopentadiene	35.6	10	µg/L	100		**35.6**	*	40-140	171		L-04
Hexachloroethane	38.5	10	µg/L	100		**38.5**	*	40-113	170		L-04
Indeno(1,2,3-cd)pyrene	76.9	5.0	µg/L	100		76.9		1-171	138		
Isophorone	71.7	10	µg/L	100		71.7		21-196	169		
Naphthalene	61.0	5.0	µg/L	100		61.0		21-133	168		
Nitrobenzene	63.6	10	µg/L	100		63.6		35-180	170		
2-Nitrophenol	67.0	10	µg/L	100		67.0		29-182	172		
4-Nitrophenol	47.5	10	µg/L	100		47.5		1-132	148		
N-Nitrosodimethylamine	39.8	10	µg/L	100		**39.8**	*	40-140	168		L-04
N-Nitrosodiphenylamine	76.1	10	µg/L	100		76.1		40-140	152		
N-Nitrosodi-n-propylamine	71.6	10	µg/L	100		71.6		1-230	173		
Pentachlorophenol	65.8	10	µg/L	100		65.8		14-176	143		
Phenanthrene	67.8	5.0	µg/L	100		67.8		54-120	149		
Phenol	32.4	10	µg/L	100		32.4		5-112	172		
Pyrene	67.4	5.0	µg/L	100		67.4		52-115	128		
1,2,4-Trichlorobenzene	51.2	5.0	µg/L	100		51.2		44-142	168		
2,4,6-Trichlorophenol	62.3	10	µg/L	100		62.3		37-144	164		
Surrogate: 2-Fluorophenol	*91.8*		µg/L	200		45.9		15-110			
Surrogate: Phenol-d6	*68.9*		µg/L	200		34.4		15-110			
Surrogate: Nitrobenzene-d5	*64.8*		µg/L	100		64.8		30-130			
Surrogate: 2-Fluorobiphenyl	*60.3*		µg/L	100		60.3		30-130			
Surrogate: 2,4,6-Tribromophenol	*175*		µg/L	200		87.4		15-110			
Surrogate: p-Terphenyl-d14	*66.9*		µg/L	100		66.9		30-130			
Batch B089171 - SW-846 3510C											
Blank (B089171-BLK1)				Prepared: 01/22/14 Analyzed: 01/23/14							
Acenaphthene	ND	5.0	µg/L								
Acenaphthylene	ND	5.0	µg/L								
Anthracene	ND	5.0	µg/L								
Benzidine	ND	20	µg/L								V-04, V-20
Benzo(a)anthracene	ND	5.0	µg/L								
Benzo(a)pyrene	ND	5.0	µg/L								
Benzo(b)fluoranthene	ND	5.0	µg/L								
Benzo(g,h,i)perylene	ND	5.0	µg/L								
Benzo(k)fluoranthene	ND	5.0	µg/L								
4-Bromophenylphenylether	ND	10	µg/L								
Butylbenzylphthalate	ND	10	µg/L								
4-Chloro-3-methylphenol	ND	10	µg/L								

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B089171 - SW-846 3510C										
Blank (B089171-BLK1)				Prepared: 01/22/14 Analyzed: 01/23/14						
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							V-20
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-05
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	*94.6*		µg/L	200		47.3	15-110			
Surrogate: Phenol-d6	*63.7*		µg/L	200		31.8	15-110			
Surrogate: Nitrobenzene-d5	*57.7*		µg/L	100		57.7	30-130			
Surrogate: 2-Fluorobiphenyl	*52.5*		µg/L	100		52.5	30-130			
Surrogate: 2,4,6-Tribromophenol	*169*		µg/L	200		84.5	15-110			
Surrogate: p-Terphenyl-d14	*93.1*		µg/L	100		93.1	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B089171 - SW-846 3510C										
LCS (B089171-BS1)				Prepared: 01/22/14 Analyzed: 01/23/14						
Acenaphthene	89.4	5.0	µg/L	100		89.4	47-145			
Acenaphthylene	88.4	5.0	µg/L	100		88.4	33-145			
Anthracene	94.0	5.0	µg/L	100		94.0	27-133			
Benzidine	74.9	20	µg/L	100		74.9	40-140			V-04, V-06
Benzo(a)anthracene	93.2	5.0	µg/L	100		93.2	33-143			
Benzo(a)pyrene	96.7	5.0	µg/L	100		96.7	17-163			
Benzo(b)fluoranthene	99.7	5.0	µg/L	100		99.7	24-159			
Benzo(g,h,i)perylene	63.2	5.0	µg/L	100		63.2	1-219			
Benzo(k)fluoranthene	88.2	5.0	µg/L	100		88.2	11-162			
4-Bromophenylphenylether	107	10	µg/L	100		107	53-127			
Butylbenzylphthalate	80.6	10	µg/L	100		80.6	1-152			
4-Chloro-3-methylphenol	96.3	10	µg/L	100		96.3	22-147			
Bis(2-chloroethoxy)methane	115	10	µg/L	100		115	33-184			
Bis(2-chloroethyl)ether	103	10	µg/L	100		103	12-158			
Bis(2-chloroisopropyl)ether	99.2	10	µg/L	100		99.2	36-166			
2-Chloronaphthalene	78.4	10	µg/L	100		78.4	60-118			
2-Chlorophenol	98.0	10	µg/L	100		98.0	23-134			
4-Chlorophenylphenylether	91.4	10	µg/L	100		91.4	25-158			
Chrysene	91.0	5.0	µg/L	100		91.0	17-168			
Dibenz(a,h)anthracene	70.0	5.0	µg/L	100		70.0	1-227			
Di-n-butylphthalate	82.4	10	µg/L	100		82.4	1-118			
1,3-Dichlorobenzene	78.6	5.0	µg/L	100		78.6	1-172			
1,4-Dichlorobenzene	79.8	5.0	µg/L	100		79.8	20-124			
1,2-Dichlorobenzene	83.8	5.0	µg/L	100		83.8	32-129			
3,3-Dichlorobenzidine	118	10	µg/L	100		118	1-262			
2,4-Dichlorophenol	96.7	10	µg/L	100		96.7	39-135			
Diethylphthalate	87.2	10	µg/L	100		87.2	1-114			
2,4-Dimethylphenol	101	10	µg/L	100		101	32-119			
Dimethylphthalate	93.8	10	µg/L	100		93.8	1-112			
4,6-Dinitro-2-methylphenol	83.3	10	µg/L	100		83.3	1-181			
2,4-Dinitrophenol	64.4	10	µg/L	100		64.4	1-191			
2,4-Dinitrotoluene	85.0	10	µg/L	100		85.0	39-139			V-06
2,6-Dinitrotoluene	94.3	10	µg/L	100		94.3	50-158			
Di-n-octylphthalate	84.7	10	µg/L	100		84.7	4-146			V-05
1,2-Diphenylhydrazine (as Azobenzene)	107	10	µg/L	100		107	40-140			
Bis(2-Ethylhexyl)phthalate	91.6	10	µg/L	100		91.6	8-158			
Fluoranthene	80.7	5.0	µg/L	100		80.7	26-137			
Fluorene	89.6	5.0	µg/L	100		89.6	59-121			
Hexachlorobenzene	104	10	µg/L	100		104	1-152			
Hexachlorobutadiene	74.8	10	µg/L	100		74.8	24-116			
Hexachlorocyclopentadiene	72.0	10	µg/L	100		72.0	40-140			
Hexachloroethane	81.8	10	µg/L	100		81.8	40-113			
Indeno(1,2,3-cd)pyrene	71.1	5.0	µg/L	100		71.1	1-171			
Isophorone	102	10	µg/L	100		102	21-196			
Naphthalene	84.7	5.0	µg/L	100		84.7	21-133			
Nitrobenzene	84.8	10	µg/L	100		84.8	35-180			
2-Nitrophenol	88.5	10	µg/L	100		88.5	29-182			
4-Nitrophenol	46.3	10	µg/L	100		46.3	1-132			
N-Nitrosodimethylamine	53.9	10	µg/L	100		53.9	40-140			
N-Nitrosodiphenylamine	126	10	µg/L	100		126	40-140			
N-Nitrosodi-n-propylamine	107	10	µg/L	100		107	1-230			
Pentachlorophenol	83.6	10	µg/L	100		83.6	14-176			

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B089171 - SW-846 3510C										
LCS (B089171-BS1)				Prepared: 01/22/14 Analyzed: 01/23/14						
Phenanthrene	92.2	5.0	µg/L	100		92.2	54-120			
Phenol	51.3	10	µg/L	100		51.3	5-112			
Pyrene	71.8	5.0	µg/L	100		71.8	52-115			
1,2,4-Trichlorobenzene	80.3	5.0	µg/L	100		80.3	44-142			
2,4,6-Trichlorophenol	86.1	10	µg/L	100		86.1	37-144			
Surrogate: 2-Fluorophenol	*133*		µg/L	200		66.3	15-110			
Surrogate: Phenol-d6	*104*		µg/L	200		52.1	15-110			
Surrogate: Nitrobenzene-d5	*85.6*		µg/L	100		85.6	30-130			
Surrogate: 2-Fluorobiphenyl	*83.7*		µg/L	100		83.7	30-130			
Surrogate: 2,4,6-Tribromophenol	*180*		µg/L	200		90.2	15-110			
Surrogate: p-Terphenyl-d14	*71.2*		µg/L	100		71.2	30-130			
LCS Dup (B089171-BSD1)				Prepared: 01/22/14 Analyzed: 01/23/14						
Acenaphthene	89.6	5.0	µg/L	100		89.6	47-145	0.201		
Acenaphthylene	89.1	5.0	µg/L	100		89.1	33-145	0.721		
Anthracene	91.3	5.0	µg/L	100		91.3	27-133	2.98		
Benzidine	64.5	20	µg/L	100		64.5	40-140	14.9		V-04, V-06
Benzo(a)anthracene	92.2	5.0	µg/L	100		92.2	33-143	1.13		
Benzo(a)pyrene	95.9	5.0	µg/L	100		95.9	17-163	0.769		
Benzo(b)fluoranthene	103	5.0	µg/L	100		103	24-159	3.30		
Benzo(g,h,i)perylene	63.8	5.0	µg/L	100		63.8	1-219	0.897		
Benzo(k)fluoranthene	89.1	5.0	µg/L	100		89.1	11-162	0.982		
4-Bromophenylphenylether	104	10	µg/L	100		104	53-127	2.99		
Butylbenzylphthalate	77.5	10	µg/L	100		77.5	1-152	3.90		
4-Chloro-3-methylphenol	100	10	µg/L	100		100	22-147	3.72		
Bis(2-chloroethoxy)methane	112	10	µg/L	100		112	33-184	3.44		
Bis(2-chloroethyl)ether	98.4	10	µg/L	100		98.4	12-158	4.84		
Bis(2-chloroisopropyl)ether	93.4	10	µg/L	100		93.4	36-166	5.98		
2-Chloronaphthalene	83.8	10	µg/L	100		83.8	60-118	6.57		
2-Chlorophenol	95.9	10	µg/L	100		95.9	23-134	2.13		
4-Chlorophenylphenylether	90.6	10	µg/L	100		90.6	25-158	0.824		
Chrysene	88.8	5.0	µg/L	100		88.8	17-168	2.38		
Dibenz(a,h)anthracene	67.9	5.0	µg/L	100		67.9	1-227	3.02		
Di-n-butylphthalate	84.1	10	µg/L	100		84.1	1-118	2.05		
1,3-Dichlorobenzene	73.8	5.0	µg/L	100		73.8	1-172	6.31		
1,4-Dichlorobenzene	74.2	5.0	µg/L	100		74.2	20-124	7.31		
1,2-Dichlorobenzene	80.7	5.0	µg/L	100		80.7	32-129	3.70		
3,3-Dichlorobenzidine	105	10	µg/L	100		105	1-262	11.5		
2,4-Dichlorophenol	98.5	10	µg/L	100		98.5	39-135	1.83		
Diethylphthalate	86.0	10	µg/L	100		86.0	1-114	1.43		
2,4-Dimethylphenol	100	10	µg/L	100		100	32-119	0.518		
Dimethylphthalate	93.6	10	µg/L	100		93.6	1-112	0.192		
4,6-Dinitro-2-methylphenol	84.4	10	µg/L	100		84.4	1-181	1.24		
2,4-Dinitrophenol	69.3	10	µg/L	100		69.3	1-191	7.30		
2,4-Dinitrotoluene	84.8	10	µg/L	100		84.8	39-139	0.342		V-06
2,6-Dinitrotoluene	92.6	10	µg/L	100		92.6	50-158	1.86		
Di-n-octylphthalate	94.7	10	µg/L	100		94.7	4-146	11.2		V-05
1,2-Diphenylhydrazine (as Azobenzene)	100	10	µg/L	100		100	40-140	6.73		
Bis(2-Ethylhexyl)phthalate	88.5	10	µg/L	100		88.5	8-158	3.48		
Fluoranthene	85.0	5.0	µg/L	100		85.0	26-137	5.26		
Fluorene	88.4	5.0	µg/L	100		88.4	59-121	1.34		
Hexachlorobenzene	103	10	µg/L	100		103	1-152	1.76		

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B089171 - SW-846 3510C										
LCS Dup (B089171-BSD1)				Prepared: 01/22/14 Analyzed: 01/23/14						
Hexachlorobutadiene	71.2	10	µg/L	100		71.2	24-116	5.00		
Hexachlorocyclopentadiene	69.6	10	µg/L	100		69.6	40-140	3.48		
Hexachloroethane	76.1	10	µg/L	100		76.1	40-113	7.20		
Indeno(1,2,3-cd)pyrene	70.3	5.0	µg/L	100		70.3	1-171	1.03		
Isophorone	100	10	µg/L	100		100	21-196	2.19		
Naphthalene	81.2	5.0	µg/L	100		81.2	21-133	4.18		
Nitrobenzene	80.7	10	µg/L	100		80.7	35-180	4.97		
2-Nitrophenol	85.6	10	µg/L	100		85.6	29-182	3.36		
4-Nitrophenol	46.7	10	µg/L	100		46.7	1-132	0.838		
N-Nitrosodimethylamine	49.7	10	µg/L	100		49.7	40-140	8.17		
N-Nitrosodiphenylamine	122	10	µg/L	100		122	40-140	2.89		
N-Nitrosodi-n-propylamine	107	10	µg/L	100		107	1-230	0.775		
Pentachlorophenol	87.0	10	µg/L	100		87.0	14-176	3.96		
Phenanthrene	90.6	5.0	µg/L	100		90.6	54-120	1.75		
Phenol	54.0	10	µg/L	100		54.0	5-112	5.19		
Pyrene	66.6	5.0	µg/L	100		66.6	52-115	7.43		
1,2,4-Trichlorobenzene	78.0	5.0	µg/L	100		78.0	44-142	2.98		
2,4,6-Trichlorophenol	87.6	10	µg/L	100		87.6	37-144	1.78		
Surrogate: 2-Fluorophenol	*127*		µg/L	200		63.4	15-110			
Surrogate: Phenol-d6	*103*		µg/L	200		51.6	15-110			
Surrogate: Nitrobenzene-d5	*79.8*		µg/L	100		79.8	30-130			
Surrogate: 2-Fluorobiphenyl	*83.2*		µg/L	100		83.2	30-130			
Surrogate: 2,4,6-Tribromophenol	*180*		µg/L	200		89.8	15-110			
Surrogate: p-Terphenyl-d14	*66.8*		µg/L	100		66.8	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B088958 - SW-846 3510C										
Blank (B088958-BLK1)				Prepared: 01/18/14 Analyzed: 01/20/14						
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.080	µg/L							
4,4'-DDD [2C]	ND	0.080	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.080	µg/L							
4,4'-DDT [2C]	ND	0.080	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	*1.40*		µg/L	2.00		70.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.45*		µg/L	2.00		72.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.60*		µg/L	2.00		80.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.55*		µg/L	2.00		77.4	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B088958 - SW-846 3510C										
LCS (B088958-BS1)				Prepared: 01/18/14 Analyzed: 01/20/14						
Aldrin	0.19	0.050	µg/L	0.200		94.4	42-122			
Aldrin [2C]	0.18	0.050	µg/L	0.200		91.0	42-122			
alpha-BHC	0.20	0.050	µg/L	0.200		102	37-134			
alpha-BHC [2C]	0.17	0.050	µg/L	0.200		85.8	37-134			
beta-BHC	0.20	0.050	µg/L	0.200		101	17-147			
beta-BHC [2C]	0.19	0.050	µg/L	0.200		96.5	17-147			
delta-BHC	0.13	0.050	µg/L	0.200		64.5	19-140			V-06
delta-BHC [2C]	0.12	0.050	µg/L	0.200		58.3	19-140			
gamma-BHC (Lindane)	0.18	0.030	µg/L	0.200		90.6	32-127			
gamma-BHC (Lindane) [2C]	0.18	0.030	µg/L	0.200		91.5	32-127			
4,4'-DDD	0.19	0.080	µg/L	0.200		95.5	31-141			
4,4'-DDD [2C]	0.20	0.080	µg/L	0.200		98.2	31-141			
4,4'-DDE	0.21	0.040	µg/L	0.200		104	30-145			
4,4'-DDE [2C]	0.20	0.040	µg/L	0.200		102	30-145			
4,4'-DDT	0.19	0.080	µg/L	0.200		96.0	25-160			
4,4'-DDT [2C]	0.19	0.080	µg/L	0.200		94.3	25-160			
Dieldrin	0.20	0.0020	µg/L	0.200		102	36-146			
Dieldrin [2C]	0.20	0.0020	µg/L	0.200		99.1	36-146			
Endosulfan I	0.20	0.050	µg/L	0.200		102	45-153			
Endosulfan I [2C]	0.19	0.050	µg/L	0.200		95.8	45-153			
Endosulfan II	0.20	0.080	µg/L	0.200		102	10-202			
Endosulfan II [2C]	0.20	0.080	µg/L	0.200		102	10-202			
Endosulfan Sulfate	0.11	0.080	µg/L	0.200		55.4	26-144			
Endosulfan Sulfate [2C]	0.11	0.080	µg/L	0.200		55.4	26-144			
Endrin	0.20	0.080	µg/L	0.200		101	30-147			
Endrin [2C]	0.20	0.080	µg/L	0.200		99.3	30-147			
Endrin Aldehyde	0.21	0.080	µg/L	0.200		105	40-140			
Endrin Aldehyde [2C]	0.20	0.080	µg/L	0.200		100	40-140			
Endrin Ketone	0.22	0.080	µg/L	0.200		112	40-140			
Endrin Ketone [2C]	0.20	0.080	µg/L	0.200		98.7	40-140			
Heptachlor	0.19	0.050	µg/L	0.200		97.1	31-111			
Heptachlor [2C]	0.19	0.050	µg/L	0.200		94.5	31-111			
Heptachlor Epoxide	0.20	0.050	µg/L	0.200		101	37-142			
Heptachlor Epoxide [2C]	0.19	0.050	µg/L	0.200		95.0	37-142			
Methoxychlor	0.22	0.50	µg/L	0.200		109	40-140			
Methoxychlor [2C]	0.21	0.50	µg/L	0.200		104	40-140			
Surrogate: Decachlorobiphenyl	*1.08*		µg/L	2.00		54.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.32*		µg/L	2.00		66.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.53*		µg/L	2.00		76.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.52*		µg/L	2.00		75.8	30-150			
LCS Dup (B088958-BSD1)				Prepared: 01/18/14 Analyzed: 01/20/14						
Aldrin	0.19	0.050	µg/L	0.200		92.8	42-122	1.70		
Aldrin [2C]	0.18	0.050	µg/L	0.200		88.4	42-122	2.91		
alpha-BHC	0.19	0.050	µg/L	0.200		95.1	37-134	7.25		
alpha-BHC [2C]	0.16	0.050	µg/L	0.200		81.6	37-134	5.01		
beta-BHC	0.20	0.050	µg/L	0.200		98.0	17-147	3.18		
beta-BHC [2C]	0.18	0.050	µg/L	0.200		89.1	17-147	7.93		
delta-BHC	0.12	0.050	µg/L	0.200		61.4	19-140	4.89		V-06
delta-BHC [2C]	0.11	0.050	µg/L	0.200		56.3	19-140	3.48		
gamma-BHC (Lindane)	0.18	0.030	µg/L	0.200		87.7	32-127	3.26		
gamma-BHC (Lindane) [2C]	0.17	0.030	µg/L	0.200		86.1	32-127	6.01		

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B088958 - SW-846 3510C										
LCS Dup (B088958-BSD1)				Prepared: 01/18/14 Analyzed: 01/20/14						
4,4'-DDD	0.19	0.080	µg/L	0.200		96.7	31-141	1.17		
4,4'-DDD [2C]	0.19	0.080	µg/L	0.200		94.9	31-141	3.43		
4,4'-DDE	0.20	0.040	µg/L	0.200		97.8	30-145	5.91		
4,4'-DDE [2C]	0.19	0.040	µg/L	0.200		95.0	30-145	7.50		
4,4'-DDT	0.18	0.080	µg/L	0.200		91.9	25-160	4.31		
4,4'-DDT [2C]	0.18	0.080	µg/L	0.200		90.5	25-160	4.06		
Dieldrin	0.20	0.0020	µg/L	0.200		98.0	36-146	4.24		
Dieldrin [2C]	0.19	0.0020	µg/L	0.200		94.1	36-146	5.20		
Endosulfan I	0.20	0.050	µg/L	0.200		97.8	45-153	4.36		
Endosulfan I [2C]	0.18	0.050	µg/L	0.200		91.1	45-153	4.93		
Endosulfan II	0.20	0.080	µg/L	0.200		98.6	10-202	3.54		
Endosulfan II [2C]	0.19	0.080	µg/L	0.200		95.6	10-202	6.91		
Endosulfan Sulfate	0.12	0.080	µg/L	0.200		62.1	26-144	11.4		
Endosulfan Sulfate [2C]	0.12	0.080	µg/L	0.200		61.9	26-144	11.1		
Endrin	0.19	0.080	µg/L	0.200		96.9	30-147	4.56		
Endrin [2C]	0.19	0.080	µg/L	0.200		94.0	30-147	5.47		
Endrin Aldehyde	0.19	0.080	µg/L	0.200		95.9	40-140	8.96		
Endrin Aldehyde [2C]	0.19	0.080	µg/L	0.200		93.1	40-140	7.27		
Endrin Ketone	0.21	0.080	µg/L	0.200		107	40-140	5.03		
Endrin Ketone [2C]	0.19	0.080	µg/L	0.200		93.5	40-140	5.46		
Heptachlor	0.18	0.050	µg/L	0.200		91.9	31-111	5.56		
Heptachlor [2C]	0.18	0.050	µg/L	0.200		88.1	31-111	6.97		
Heptachlor Epoxide	0.19	0.050	µg/L	0.200		96.4	37-142	4.34		
Heptachlor Epoxide [2C]	0.18	0.050	µg/L	0.200		91.3	37-142	3.96		
Methoxychlor	0.20	0.50	µg/L	0.200		101	40-140	7.11		
Methoxychlor [2C]	0.19	0.50	µg/L	0.200		97.0	40-140	6.89		
Surrogate: Decachlorobiphenyl	*0.911*		µg/L	2.00		45.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.957*		µg/L	2.00		47.8	30-150			
Surrogate: Tetrachloro-m-xylene	*1.45*		µg/L	2.00		72.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.39*		µg/L	2.00		69.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B088959 - SW-846 3510C										
Blank (B088959-BLK1)				Prepared: 01/18/14 Analyzed: 01/20/14						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.66*		µg/L	2.00		83.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.63*		µg/L	2.00		81.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.48*		µg/L	2.00		74.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.55*		µg/L	2.00		77.6	30-150			
LCS (B088959-BS1)				Prepared: 01/18/14 Analyzed: 01/20/14						
Aroclor-1016	0.46	0.20	µg/L	0.500		92.2	50-114			
Aroclor-1016 [2C]	0.46	0.20	µg/L	0.500		92.4	50-114			
Aroclor-1260	0.44	0.20	µg/L	0.500		87.6	8-127			
Aroclor-1260 [2C]	0.44	0.20	µg/L	0.500		87.3	8-127			
Surrogate: Decachlorobiphenyl	*1.50*		µg/L	2.00		74.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.46*		µg/L	2.00		73.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.48*		µg/L	2.00		74.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.58*		µg/L	2.00		78.9	30-150			
LCS Dup (B088959-BSD1)				Prepared: 01/18/14 Analyzed: 01/20/14						
Aroclor-1016	0.50	0.20	µg/L	0.500		100	50-114	8.13		
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500		96.2	50-114	4.00		
Aroclor-1260	0.48	0.20	µg/L	0.500		95.8	8-127	8.96		
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		96.9	8-127	10.3		
Surrogate: Decachlorobiphenyl	*1.30*		µg/L	2.00		65.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.27*		µg/L	2.00		63.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.55*		µg/L	2.00		77.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.64*		µg/L	2.00		81.8	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B088895 - SW-846 3510C										
Blank (B088895-BLK1)				Prepared: 01/17/14 Analyzed: 01/20/14						
2,4-D	ND	0.50	µg/L							
2,4-D [2C]	ND	0.50	µg/L							
2,4,5-TP (Silvex)	ND	0.050	µg/L							
2,4,5-TP (Silvex) [2C]	ND	0.050	µg/L							
2,4,5-T	ND	0.10	µg/L							
2,4,5-T [2C]	ND	0.10	µg/L							
Dalapon	ND	1.2	µg/L							
Dalapon [2C]	ND	1.2	µg/L							
Dicamba	ND	0.050	µg/L							
Dicamba [2C]	ND	0.050	µg/L							
Surrogate: 2,4-Dichlorophenylacetic acid	*1.77*		µg/L	2.00		88.3	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	*1.68*		µg/L	2.00		84.0	30-150			
LCS (B088895-BS1)				Prepared: 01/17/14 Analyzed: 01/20/14						
2,4-D	2.51	0.50	µg/L	2.50		100	40-140			
2,4-D [2C]	2.46	0.50	µg/L	2.50		98.4	40-140			
2,4,5-TP (Silvex)	0.269	0.050	µg/L	0.250		108	40-140			
2,4,5-TP (Silvex) [2C]	0.281	0.050	µg/L	0.250		113	40-140			
2,4,5-T	0.282	0.10	µg/L	0.250		113	40-140			
2,4,5-T [2C]	0.272	0.10	µg/L	0.250		109	40-140			
Dalapon	3.80	1.2	µg/L	6.25		60.9	40-140			
Dalapon [2C]	3.85	1.2	µg/L	6.25		61.5	40-140			
Dicamba	0.296	0.050	µg/L	0.250		118	40-140			
Dicamba [2C]	0.292	0.050	µg/L	0.250		117	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	*2.61*		µg/L	2.00		130	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	*2.17*		µg/L	2.00		108	30-150			
LCS Dup (B088895-BSD1)				Prepared: 01/17/14 Analyzed: 01/20/14						
2,4-D	2.31	0.50	µg/L	2.50		92.3	40-140	8.45	30	
2,4-D [2C]	2.27	0.50	µg/L	2.50		90.6	40-140	8.20	30	
2,4,5-TP (Silvex)	0.251	0.050	µg/L	0.250		101	40-140	6.91	30	
2,4,5-TP (Silvex) [2C]	0.263	0.050	µg/L	0.250		105	40-140	6.79	30	
2,4,5-T	0.266	0.10	µg/L	0.250		106	40-140	6.07	30	
2,4,5-T [2C]	0.251	0.10	µg/L	0.250		100	40-140	8.08	30	
Dalapon	3.52	1.2	µg/L	6.25		56.3	40-140	7.85	30	
Dalapon [2C]	3.56	1.2	µg/L	6.25		56.9	40-140	7.73	30	
Dicamba	0.289	0.050	µg/L	0.250		115	40-140	2.58	30	
Dicamba [2C]	0.277	0.050	µg/L	0.250		111	40-140	5.07	30	
Surrogate: 2,4-Dichlorophenylacetic acid	*2.51*		µg/L	2.00		126	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	*1.98*		µg/L	2.00		99.2	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B088730 - EPA 245.1										
Blank (B088730-BLK1)				Prepared & Analyzed: 01/15/14						
Mercury	ND	0.00010	mg/L							
LCS (B088730-BS1)				Prepared & Analyzed: 01/15/14						
Mercury	0.00193	0.00010	mg/L	0.00200		96.4	85-115			
LCS Dup (B088730-BSD1)				Prepared & Analyzed: 01/15/14						
Mercury	0.00200	0.00010	mg/L	0.00200		100	85-115	3.70	20	
Duplicate (B088730-DUP1)		**Source: 14A0403-01**		Prepared & Analyzed: 01/15/14						
Mercury	ND	0.00010	mg/L		ND			NC	30	
Matrix Spike (B088730-MS1)		**Source: 14A0403-01**		Prepared & Analyzed: 01/15/14						
Mercury	0.00196	0.00010	mg/L	0.00200	ND	98.1	75-125			
Matrix Spike Dup (B088730-MSD1)		**Source: 14A0403-01**		Prepared & Analyzed: 01/15/14						
Mercury	0.00193	0.00010	mg/L	0.00200	ND	96.7	75-125	1.46	20	
Batch B088938 - EPA 200.7										
Blank (B088938-BLK1)				Prepared: 01/17/14 Analyzed: 01/20/14						
Arsenic	ND	0.010	mg/L							
Barium	ND	0.10	mg/L							
Beryllium	ND	0.0020	mg/L							
Cadmium	ND	0.0010	mg/L							
Chromium	ND	0.0070	mg/L							
Cobalt	ND	0.010	mg/L							
Copper	ND	0.0050	mg/L							
Lead	ND	0.0050	mg/L							
Magnesium	ND	0.050	mg/L							
Nickel	ND	0.0050	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Thallium	ND	0.060	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.010	mg/L							
Boron	ND	0.10	mg/L							
LCS (B088938-BS1)				Prepared: 01/17/14 Analyzed: 01/20/14						
Silver	0.490	0.010	mg/L	0.500		98.0	85-115			
LCS (B088938-BS2)				Prepared: 01/17/14 Analyzed: 01/20/14						
Arsenic	2.07	0.010	mg/L	2.00		104	85-115			
Barium	2.09	0.10	mg/L	2.00		105	85-115			
Beryllium	2.10	0.0020	mg/L	2.00		105	85-115			
Cadmium	2.09	0.0010	mg/L	2.00		104	85-115			
Chromium	2.07	0.0070	mg/L	2.00		103	85-115			
Cobalt	2.05	0.010	mg/L	2.00		102	85-115			
Copper	2.12	0.0050	mg/L	2.00		106	85-115			
Lead	2.05	0.0050	mg/L	2.00		103	85-115			
Magnesium	2.20	0.050	mg/L	2.00		110	85-115			
Nickel	2.08	0.0050	mg/L	2.00		104	85-115			
Selenium	2.10	0.050	mg/L	2.00		105	85-115			
Thallium	2.00	0.060	mg/L	2.00		100	85-115			
Vanadium	2.06	0.010	mg/L	2.00		103	85-115			
Zinc	2.15	0.010	mg/L	2.00		108	85-115			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B088938 - EPA 200.7										
LCS (B088938-BS2)				Prepared: 01/17/14 Analyzed: 01/20/14						
Boron	2.06	0.10	mg/L	2.00		103	85-115			
LCS Dup (B088938-BSD1)				Prepared: 01/17/14 Analyzed: 01/20/14						
Silver	0.469	0.010	mg/L	0.500		93.8	85-115	4.36	20	
LCS Dup (B088938-BSD2)				Prepared: 01/17/14 Analyzed: 01/20/14						
Arsenic	2.09	0.010	mg/L	2.00		105	85-115	0.962	20	
Barium	2.09	0.10	mg/L	2.00		104	85-115	0.0610	20	
Beryllium	2.11	0.0020	mg/L	2.00		106	85-115	0.429	20	
Cadmium	2.09	0.0010	mg/L	2.00		105	85-115	0.248	20	
Chromium	2.08	0.0070	mg/L	2.00		104	85-115	0.382	20	
Cobalt	2.06	0.010	mg/L	2.00		103	85-115	0.294	20	
Copper	2.11	0.0050	mg/L	2.00		106	85-115	0.356	20	
Lead	2.05	0.0050	mg/L	2.00		103	85-115	0.0838	20	
Magnesium	2.16	0.050	mg/L	2.00		108	85-115	2.00	20	
Nickel	2.09	0.0050	mg/L	2.00		104	85-115	0.364	20	
Selenium	2.10	0.050	mg/L	2.00		105	85-115	0.103	20	
Thallium	2.02	0.060	mg/L	2.00		101	85-115	0.675	20	
Vanadium	2.05	0.010	mg/L	2.00		103	85-115	0.187	20	
Zinc	2.15	0.010	mg/L	2.00		108	85-115	0.102	20	
Boron	2.09	0.10	mg/L	2.00		104	85-115	1.04	20	
Duplicate (B088938-DUP2)	**Source: 14A0403-01**			Prepared: 01/17/14 Analyzed: 01/20/14						
Arsenic	0.0287	0.010	mg/L		0.0249			14.0	20	
Barium	0.235	0.10	mg/L		0.234			0.475	20	
Beryllium	ND	0.0020	mg/L		ND			NC	20	
Cadmium	ND	0.0010	mg/L		ND			NC	20	
Chromium	ND	0.0070	mg/L		ND			NC	20	
Cobalt	ND	0.010	mg/L		ND			NC	20	
Copper	ND	0.0050	mg/L		ND			NC	20	
Lead	ND	0.0050	mg/L		0.00580			NC	20	
Magnesium	16.7	0.050	mg/L		16.8			0.688	20	
Nickel	ND	0.0050	mg/L		ND			NC	20	
Selenium	ND	0.050	mg/L		ND			NC	20	
Silver	ND	0.010	mg/L		ND			NC	20	
Thallium	ND	0.060	mg/L		ND			NC	20	
Vanadium	ND	0.010	mg/L		ND			NC	20	
Zinc	0.0312	0.010	mg/L		0.0332			6.43	20	
Boron	ND	0.10	mg/L		ND			NC	20	
Matrix Spike (B088938-MS2)	**Source: 14A0403-01**			Prepared: 01/17/14 Analyzed: 01/20/14						
Arsenic	2.24	0.010	mg/L	2.00	0.0249	111	70-130			
Barium	2.30	0.10	mg/L	2.00	0.234	103	70-130			
Beryllium	2.14	0.0020	mg/L	2.00	0.00170	107	70-130			
Cadmium	2.14	0.0010	mg/L	2.00	0.000977	107	70-130			
Chromium	2.11	0.0070	mg/L	2.00	ND	105	70-130			
Cobalt	2.02	0.010	mg/L	2.00	ND	101	70-130			
Copper	2.15	0.0050	mg/L	2.00	ND	108	70-130			
Lead	1.96	0.0050	mg/L	2.00	0.00580	97.6	70-130			
Magnesium	18.7	0.050	mg/L	2.00	16.8	95.0	70-130			
Nickel	2.03	0.0050	mg/L	2.00	ND	101	70-130			
Selenium	2.13	0.050	mg/L	2.00	ND	107	70-130			
Silver	1.74	0.010	mg/L	2.00	ND	86.8	70-130			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B088938 - EPA 200.7										
Matrix Spike (B088938-MS2)	**Source: 14A0403-01**			Prepared: 01/17/14 Analyzed: 01/20/14						
Thallium	2.11	0.060	mg/L	2.00	ND	106	70-130			
Vanadium	2.13	0.010	mg/L	2.00	0.00451	106	70-130			
Zinc	2.10	0.010	mg/L	2.00	0.0332	104	70-130			
Boron	2.21	0.10	mg/L	2.00	ND	111	70-130			

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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 B088706 - SM18-20 3500 Cr B/D										
Blank (B088706-BLK1)				Prepared & Analyzed: 01/14/14						
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B088706-BS1)				Prepared & Analyzed: 01/14/14						
Hexavalent Chromium	0.097	0.0040	mg/L	0.100		97.2	85.7-108			
LCS Dup (B088706-BSD1)				Prepared & Analyzed: 01/14/14						
Hexavalent Chromium	0.10	0.0040	mg/L	0.100		102	85.7-108	4.69	10.8	
Duplicate (B088706-DUP1)	**Source: 14A0403-01**			Prepared & Analyzed: 01/14/14						
Hexavalent Chromium	ND	0.0040	mg/L		ND			NC	20	
Matrix Spike (B088706-MS1)	**Source: 14A0403-01**			Prepared & Analyzed: 01/14/14						
Hexavalent Chromium	0.097	0.0040	mg/L	0.100	ND	97.2	12.8-158			
Matrix Spike Dup (B088706-MSD1)	**Source: 14A0403-01**			Prepared & Analyzed: 01/14/14						
Hexavalent Chromium	0.10	0.0040	mg/L	0.100	ND	103	12.8-158	6.21	14.7	
Batch B088719 - EPA 1664A/B										
Blank (B088719-BLK1)				Prepared & Analyzed: 01/15/14						
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L							
LCS (B088719-BS1)				Prepared & Analyzed: 01/15/14						
Silica Gel Treated HEM (SGT-HEM)	16		mg/L	20.0		82.0	64-132			
Duplicate (B088719-DUP1)	**Source: 14A0403-01**			Prepared & Analyzed: 01/15/14						
Silica Gel Treated HEM (SGT-HEM)	ND	1.6	mg/L		ND			NC	18	
Batch B088776 - SM18-20 4500 CN E										
Blank (B088776-BLK1)				Prepared: 01/15/14 Analyzed: 01/16/14						
Cyanide	ND	0.010	mg/L							
LCS (B088776-BS1)				Prepared: 01/15/14 Analyzed: 01/16/14						
Cyanide	0.61	0.010	mg/L	0.680		90.1	69.9-121			
LCS Dup (B088776-BSD1)				Prepared: 01/15/14 Analyzed: 01/16/14						
Cyanide	0.64	0.010	mg/L	0.680		94.6	69.9-121	4.84	17	
Matrix Spike (B088776-MS1)	**Source: 14A0403-01**			Prepared: 01/15/14 Analyzed: 01/16/14						
Cyanide	0.33	0.010	mg/L	0.374	ND	88.6	29.1-155			

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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 B088776 - SM18-20 4500 CN E										
Matrix Spike Dup (B088776-MSD1)	**Source: 14A0403-01**			Prepared: 01/15/14 Analyzed: 01/16/14						
Cyanide	0.36	0.010	mg/L	0.374	ND	96.1	29.1-155	8.19	20	
Batch B088888 - SM18-20 4500 CN G										
Blank (B088888-BLK1)				Prepared: 01/16/14 Analyzed: 01/17/14						
Cyanide (amenable)	ND	0.010	mg/L							
Batch B088992 - EPA 420.1										
Blank (B088992-BLK1)				Prepared: 01/20/14 Analyzed: 01/21/14						
Phenol	ND	0.050	mg/L							
LCS (B088992-BS1)				Prepared: 01/20/14 Analyzed: 01/21/14						
Phenol	0.54	0.050	mg/L	0.500		107	80.2-133			
LCS Dup (B088992-BSD1)				Prepared: 01/20/14 Analyzed: 01/21/14						
Phenol	0.54	0.050	mg/L	0.500		107	80.2-133	0.00	20.7	
Duplicate (B088992-DUP1)	**Source: 14A0403-01**			Prepared: 01/20/14 Analyzed: 01/21/14						
Phenol	ND	0.050	mg/L		ND			NC	20	
Matrix Spike (B088992-MS1)	**Source: 14A0403-01**			Prepared: 01/20/14 Analyzed: 01/21/14						
Phenol	0.38	0.050	mg/L	0.500	ND	76.8	36.6-163			

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BREAKDOWN REPORT

Lab Sample ID: S005314-PEM1 **Analyzed:** 01/20/2014

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.83
Endrin [1]	3.97

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.95
Endrin [2]	3.18

BREAKDOWN REPORT

Lab Sample ID: S005314-PEM2 **Analyzed:** 01/20/2014

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.87
Endrin [1]	4.44

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.98
Endrin [2]	3.62

BREAKDOWN REPORT

Lab Sample ID: S005314-PEM3 **Analyzed:** 01/20/2014

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.96
Endrin [1]	4.67

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BREAKDOWN REPORT

Lab Sample ID:	S005314-PEM3	Analyzed:	01/20/2014

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.08
Endrin [2]	3.62

BREAKDOWN REPORT

Lab Sample ID:	S005314-PEM4	Analyzed:	01/21/2014

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.93
Endrin [1]	4.55

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.06
Endrin [2]	3.42

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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.

L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
S-10	Sample was re-extracted outside of holding time since surrogate standard recovery was outside of control limits. Data from analysis performed outside of holding time is also reported since surrogate recovery is acceptable.
T-09	Sample was received above the maximum temperature of 6 °C.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
Z-01	Sample 14A0403-01 was re-extracted past the recommended holding time due to original batch QC failure. Both sets of data are reported.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Arsenic	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Barium	NY,CT,NH,RI,NC,ME,VA,NJ
Beryllium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Cadmium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chromium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Cobalt	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Copper	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Lead	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Magnesium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Nickel	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Selenium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Silver	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Thallium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Vanadium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Zinc	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Boron	CT,NH,NY,RI,NC,ME,VA,NJ
EPA 245.1 in Water	
Mercury	CT,MA,NH,RI,NY,NC,ME,VA,NJ
EPA 420.1 in Water	
Phenol	CT,MA,NH,NY,RI,NC,ME,VA,NJ
EPA 608 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aldrin	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aldrin [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
alpha-BHC	CT,MA,NH,NY,RI,NC,ME,VA,NJ
alpha-BHC [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
beta-BHC	CT,MA,NH,NY,RI,NC,ME,VA,NJ
beta-BHC [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
delta-BHC	CT,MA,NH,NY,RI,NC,ME,VA,NJ
delta-BHC [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
gamma-BHC (Lindane)	CT,MA,NH,NY,RI,NC,ME,VA,NJ
gamma-BHC (Lindane) [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chlordane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chlordane [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
4,4'-DDD	CT,MA,NH,NY,RI,NC,ME,VA,NJ
4,4'-DDD [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
4,4'-DDE	CT,MA,NH,NY,RI,NC,ME,VA,NJ
4,4'-DDE [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
4,4'-DDT	CT,MA,NH,NY,RI,NC,ME,VA,NJ
4,4'-DDT [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Dieldrin	CT,MA,NH,NY,RI,NC,ME,VA,NJ

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 608 in Water	
Dieldrin [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endosulfan II	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endosulfan II [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endosulfan Sulfate	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endosulfan Sulfate [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endrin	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endrin [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endrin Aldehyde	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endrin Aldehyde [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Heptachlor	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Heptachlor [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Methoxychlor	CT,NH,NY,RI,NC
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Methoxychlor [2C]	CT,NH,NY,RI,NC
Toxaphene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Toxaphene [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
EPA 624 in Water	
Benzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Bromodichloromethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Bromoform	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Bromomethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Carbon Tetrachloride	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chlorodibromomethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
2-Chloroethyl Vinyl Ether	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chloroform	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chloromethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,3-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,4-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2-Dichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1-Dichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1-Dichloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
trans-1,2-Dichloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 624 in Water	
1,2-Dichloropropane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
cis-1,3-Dichloropropene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
trans-1,3-Dichloropropene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Ethylbenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Naphthalene	NC
1,1,2,2-Tetrachloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Tetrachloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Toluene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2,4-Trichlorobenzene	NC
1,1,1-Trichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1,2-Trichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Trichloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Trichlorofluoromethane (Freon 11)	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Vinyl Chloride	CT,MA,NH,NY,RI,NC,ME,VA,NJ
m+p Xylene	CT,MA,NH,NY,RI,NC,VA,NJ
o-Xylene	CT,MA,NH,NY,RI,NC,VA,NJ
EPA 625 in Water	
Acenaphthene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Acenaphthylene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Anthracene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Benzidine	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Benzo(a)anthracene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Benzo(a)pyrene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Benzo(b)fluoranthene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Benzo(g,h,i)perylene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Benzo(k)fluoranthene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
4-Bromophenylphenylether	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Butylbenzylphthalate	CT,MA,NH,NY,NC,NJ,RI,ME,VA
4-Chloro-3-methylphenol	CT,MA,NH,NY,NC,NJ,RI,VA
Bis(2-chloroethoxy)methane	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Bis(2-chloroethyl)ether	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Bis(2-chloroisopropyl)ether	CT,MA,NH,NY,NC,NJ,RI,ME,VA
2-Chloronaphthalene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
2-Chlorophenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
4-Chlorophenylphenylether	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Chrysene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Dibenz(a,h)anthracene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Di-n-butylphthalate	CT,MA,NH,NY,NC,NJ,RI,ME,VA
1,3-Dichlorobenzene	MA,NC
1,4-Dichlorobenzene	MA,NC
1,2-Dichlorobenzene	MA,NC
3,3-Dichlorobenzidine	CT,MA,NH,NY,NC,NJ,RI,ME,VA
2,4-Dichlorophenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Diethylphthalate	CT,MA,NH,NY,NC,NJ,RI,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 625 in Water	
2,4-Dimethylphenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Dimethylphthalate	CT,MA,NH,NY,NC,NJ,RI,ME,VA
4,6-Dinitro-2-methylphenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
2,4-Dinitrophenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
2,4-Dinitrotoluene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
2,6-Dinitrotoluene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Di-n-octylphthalate	CT,MA,NH,NY,NC,NJ,RI,ME,VA
1,2-Diphenylhydrazine (as Azobenzene)	NC
Bis(2-Ethylhexyl)phthalate	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Fluoranthene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Fluorene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Hexachlorobenzene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Hexachlorobutadiene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Hexachlorocyclopentadiene	CT,MA,NH,NY,NC,RI,ME,VA
Hexachloroethane	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Indeno(1,2,3-cd)pyrene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Isophorone	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Naphthalene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Nitrobenzene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
2-Nitrophenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
4-Nitrophenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
N-Nitrosodimethylamine	CT,MA,NH,NY,NC,NJ,RI,ME,VA
N-Nitrosodiphenylamine	CT,MA,NH,NY,NC,NJ,RI,ME,VA
N-Nitrosodi-n-propylamine	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Pentachlorophenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Phenanthrene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Phenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Pyrene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
1,2,4-Trichlorobenzene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
2,4,6-Trichlorophenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
2-Fluorophenol	NC
SM18-20 3500 Cr B/D in Water	
Hexavalent Chromium	NY,CT,NH,RI,ME,VA,NJ,NC
SM18-20 4500 CN E in Water	
Cyanide	CT,MA,NH,NY,RI,NC,ME,VA,NJ
SW-846 8081B in Water	
Aldrin	CT,ME,NC,NH,NY,VA,NJ
Aldrin	CT,NH,NY,ME,NC,VA,NJ
Aldrin [2C]	CT,NH,NY,ME,NC,VA,NJ
Aldrin [2C]	CT,ME,NC,NH,NY,VA,NJ
alpha-BHC	CT,ME,NC,NH,NY,VA,NJ
alpha-BHC	CT,NH,NY,ME,NC,VA,NJ
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA,NJ
alpha-BHC [2C]	CT,ME,NC,NH,NY,VA,NJ
beta-BHC	CT,NH,NY,ME,NC,VA,NJ
beta-BHC	CT,ME,NC,NH,NY,VA,NJ

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
beta-BHC [2C]	CT,ME,NC,NH,NY,VA,NJ
beta-BHC [2C]	CT,NH,NY,ME,NC,VA,NJ
delta-BHC	CT,ME,NC,NH,NY,VA,NJ
delta-BHC	CT,NH,NY,ME,NC,VA,NJ
delta-BHC [2C]	CT,ME,NC,NH,NY,VA,NJ
delta-BHC [2C]	CT,NH,NY,ME,NC,VA,NJ
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA,NJ
gamma-BHC (Lindane)	CT,ME,NC,NH,NY,VA,NJ
gamma-BHC (Lindane) [2C]	CT,ME,NC,NH,NY,VA,NJ
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA,NJ
Chlordane	CT,ME,NC,NH,NY,VA,NJ
Chlordane	CT,NH,NY,ME,NC,VA,NJ
Chlordane [2C]	CT,ME,NC,NH,NY,VA,NJ
Chlordane [2C]	CT,NH,NY,ME,NC,VA,NJ
4,4'-DDD	CT,NH,NY,ME,NC,VA,NJ
4,4'-DDD	CT,ME,NC,NH,NY,VA,NJ
4,4'-DDD [2C]	CT,ME,NC,NH,NY,VA,NJ
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA,NJ
4,4'-DDE	CT,ME,NC,NH,NY,VA,NJ
4,4'-DDE	CT,NH,NY,ME,NC,VA,NJ
4,4'-DDE [2C]	CT,ME,NC,NH,NY,VA,NJ
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA,NJ
4,4'-DDT	CT,ME,NC,NH,NY,VA,NJ
4,4'-DDT	CT,NH,NY,ME,NC,VA,NJ
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA,NJ
4,4'-DDT [2C]	CT,ME,NC,NH,NY,VA,NJ
Dieldrin	CT,ME,NC,NH,NY,VA,NJ
Dieldrin	CT,NH,NY,ME,NC,VA,NJ
Dieldrin [2C]	CT,NH,NY,ME,NC,VA,NJ
Dieldrin [2C]	CT,ME,NC,NH,NY,VA,NJ
Endosulfan I	CT,ME,NC,NH,NY,VA,NJ
Endosulfan I	CT,NH,NY,ME,NC,VA,NJ
Endosulfan I [2C]	CT,ME,NC,NH,NY,VA,NJ
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA,NJ
Endosulfan II	CT,ME,NC,NH,NY,VA,NJ
Endosulfan II	CT,NH,NY,ME,NC,VA,NJ
Endosulfan II [2C]	CT,ME,NC,NH,NY,VA,NJ
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA,NJ
Endosulfan Sulfate	CT,ME,NC,NH,NY,VA,NJ
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA,NJ
Endosulfan Sulfate [2C]	CT,ME,NC,NH,NY,VA,NJ
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA,NJ
Endrin	CT,NH,NY,ME,NC,VA,NJ
Endrin	CT,ME,NC,NH,NY,VA,NJ
Endrin [2C]	CT,NH,NY,ME,NC,VA,NJ
Endrin [2C]	CT,ME,NC,NH,NY,VA,NJ
Endrin Aldehyde	CT,NH,NY,ME,NC,VA,NJ

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
Endrin Aldehyde	CT,ME,NC,NH,NY,VA,NJ
Endrin Aldehyde [2C]	CT,ME,NC,NH,NY,VA,NJ
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA,NJ
Endrin Ketone	NC
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,ME,NC,NH,NY,VA,NJ
Heptachlor	CT,NH,NY,ME,NC,VA,NJ
Heptachlor [2C]	CT,ME,NC,NH,NY,VA,NJ
Heptachlor [2C]	CT,NH,NY,ME,NC,VA,NJ
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA,NJ
Heptachlor Epoxide	CT,ME,NC,NH,NY,VA,NJ
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA,NJ
Heptachlor Epoxide [2C]	CT,ME,NC,NH,NY,VA,NJ
Hexachlorobenzene	NC
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA,NJ
Methoxychlor	CT,ME,NC,NH,NY,VA,NJ
Methoxychlor [2C]	CT,ME,NC,NH,NY,VA,NJ
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA,NJ
Toxaphene	CT,ME,NC,NH,NY,VA,NJ
Toxaphene	CT,NH,NY,ME,NC,VA,NJ
Toxaphene [2C]	CT,NH,NY,ME,NC,VA,NJ
Toxaphene [2C]	CT,ME,NC,NH,NY,VA,NJ

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	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

CHAIN OF CUSTODY RECORD

14A0403

Rev 04.05.12

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Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

Company Name: AMEC LLC
Telephone:
Address:
Project # Greenwich High school
Client PO#

Attention: Bob Dwyer
Project Location: Greenwich High School
Sampled By: Ryan J. Stewart

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email: bdwyer@amecllc.com
Format: ☒ PDF ☒ EXCEL ○ GIS ○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	VOCs	Herbicides	metals	Pesticides	PCB's	1664 oil/grease	total Phenols	SVOCs	total/amenable CN	Hex Cr
								6	H	V										
								4	-	A										
								2	N	P										
								4	-	A										
								4	-	A										
								4	S	A										
								2	S	A										
								4	-	A										
								2	X	P										
								2	-	P										
01	011414 GHS Discharge	1300	1300		X	GW	U				X	X	X	X	X	X	X	X	X	X
02	011414 GHS TB	1300	1300		X	LW	C				X									

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa 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= drinking water
A = air
S = soil/solid
SL = sludge
O = other _____

Comments: LW = Lab water

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

Relinquished by: (signature)	Date/Time:
	1/14/14: 1330
Received by: (signature)	Date/Time:
	1/14/14 1330
Relinquished by: (signature)	Date/Time:
	1/14/14 1655
Received by: (signature)	Date/Time:
Rebecca Hurst 2.8°C 1855	1/14/14

Turnaround ††
☒ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

†† 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 IS 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

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Sample Receipt Checklist

CLIENT NAME: AMEC RECEIVED BY: RLF DATE: 1/14/14

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 2.8°C

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 Dave Date _____ Time _____

7) **Location where samples are stored:** 19

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	20	8 oz amber/clear jar	
500 mL Amber	2	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	1	Non-ConTest Container	
40 mL Vial - type listed below	9	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments: received one empty 250 pl preserved with NaOH

40 mL vials: # HCl 9 # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
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.	F	
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.	F	empty 250 plastic
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
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 1/14/14 1835

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February 5, 2014

Malcolm Beeler
AECOM Environment - Rocky Hill, CT
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067

Project Location: Greenwich Hills School
Client Job Number:
Project Number: 60225155
Laboratory Work Order Number: 14A0917

Enclosed are results of analyses for samples received by the laboratory on January 31, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

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

AECOM Environment - Rocky Hill, CT
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 2/5/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 60225155

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14A0917

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

PROJECT LOCATION: Greenwich Hills School

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-AH16	14A0917-01	Ground Water		EPA 680 Modified	
MW-AJ19	14A0917-02	Ground Water		EPA 680 Modified	

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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.

EPA 680 Modified

Qualifications:

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

Dichlorobiphenyls, Monochlorobiphenyls, Total Polychlorinated biphenyls

14A0917-01[MW-AH16], 14A0917-02[MW-AJ19], B089806-BS1, B089806-BSD1

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

Dichlorobiphenyls, Monochlorobiphenyls, Total Polychlorinated biphenyls

14A0917-01[MW-AH16], 14A0917-02[MW-AJ19], B089806-BLK2, B089806-BS1, B089806-BSD1

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

Analyte & Samples(s) Qualified:

Monochlorobiphenyls

14A0917-01[MW-AH16], 14A0917-02[MW-AJ19], B089806-BLK2, B089806-BS1, B089806-BSD1

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

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY
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Project Location: Greenwich Hills School | Sample Description: | Work Order: 14A0917

Date Received: 1/31/2014

Field Sample #: MW-AH16 | Sampled: 1/31/2014 08:55

Sample ID: 14A0917-01

Sample Matrix: Ground Water

PCB Homologues by GC/MS (Water) with Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	4.4	0.0010	µg/L	1	B-07, V-06, B	EPA 680 Modified	2/4/14	2/5/14 11:47	CJM
Dichlorobiphenyls	3.5	0.0010	µg/L	1	B-07, B	EPA 680 Modified	2/4/14	2/5/14 11:47	CJM
Trichlorobiphenyls	0.68	0.0010	µg/L	1		EPA 680 Modified	2/4/14	2/5/14 11:47	CJM
Tetrachlorobiphenyls	0.27	0.0020	µg/L	1		EPA 680 Modified	2/4/14	2/5/14 11:47	CJM
Pentachlorobiphenyls	0.073	0.0020	µg/L	1		EPA 680 Modified	2/4/14	2/5/14 11:47	CJM
Hexachlorobiphenyls	0.0085	0.0020	µg/L	1		EPA 680 Modified	2/4/14	2/5/14 11:47	CJM
Heptachlorobiphenyls	ND	0.0030	µg/L	1		EPA 680 Modified	2/4/14	2/5/14 11:47	CJM
Octachlorobiphenyls	ND	0.0030	µg/L	1		EPA 680 Modified	2/4/14	2/5/14 11:47	CJM
Nonachlorobiphenyls	ND	0.0050	µg/L	1		EPA 680 Modified	2/4/14	2/5/14 11:47	CJM
Decachlorobiphenyl	ND	0.0050	µg/L	1		EPA 680 Modified	2/4/14	2/5/14 11:47	CJM
Total Polychlorinated biphenyls	8.9		µg/L	1	B-07, B	EPA 680 Modified	2/4/14	2/5/14 11:47	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Tetrachloro-m-xylene	76.3	50-125					2/5/14 11:47

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Project Location: Greenwich Hills School | Sample Description: | Work Order: 14A0917

Date Received: 1/31/2014

Field Sample #: MW-AJ19 | Sampled: 1/31/2014 09:50

Sample ID: 14A0917-02

Sample Matrix: Ground Water

PCB Homologues by GC/MS (Water) with Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Monochlorobiphenyls	3.0	0.0010	µg/L	1	B-07, V-06, B	EPA 680 Modified	2/4/14	2/5/14 12:17	CJM
Dichlorobiphenyls	2.6	0.0010	µg/L	1	B-07, B	EPA 680 Modified	2/4/14	2/5/14 12:17	CJM
Trichlorobiphenyls	0.39	0.0010	µg/L	1		EPA 680 Modified	2/4/14	2/5/14 12:17	CJM
Tetrachlorobiphenyls	0.10	0.0020	µg/L	1		EPA 680 Modified	2/4/14	2/5/14 12:17	CJM
Pentachlorobiphenyls	0.013	0.0020	µg/L	1		EPA 680 Modified	2/4/14	2/5/14 12:17	CJM
Hexachlorobiphenyls	ND	0.0020	µg/L	1		EPA 680 Modified	2/4/14	2/5/14 12:17	CJM
Heptachlorobiphenyls	ND	0.0030	µg/L	1		EPA 680 Modified	2/4/14	2/5/14 12:17	CJM
Octachlorobiphenyls	ND	0.0030	µg/L	1		EPA 680 Modified	2/4/14	2/5/14 12:17	CJM
Nonachlorobiphenyls	ND	0.0050	µg/L	1		EPA 680 Modified	2/4/14	2/5/14 12:17	CJM
Decachlorobiphenyl	ND	0.0050	µg/L	1		EPA 680 Modified	2/4/14	2/5/14 12:17	CJM
Total Polychlorinated biphenyls	6.1		µg/L	1	B-07, B	EPA 680 Modified	2/4/14	2/5/14 12:17	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Tetrachloro-m-xylene	77.4	50-125				2/5/14 12:17	

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Sample Extraction Data

Prep Method: SW-846 3510C-EPA 680 Modified

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14A0917-01 [MW-AH16]	B089806	1000	1.00	02/04/14
14A0917-02 [MW-AJ19]	B089806	1000	1.00	02/04/14

con-test® ANALYTICAL LABORATORY

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QUALITY CONTROL

PCB Homologues by GC/MS (Water) with Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B089806 - SW-846 3510C										
Blank (B089806-BLK2)				Prepared: 02/04/14 Analyzed: 02/05/14						
Monochlorobiphenyls	0.0022	0.0010	µg/L							B-07, V-06
Dichlorobiphenyls	0.0011	0.0010	µg/L							B-07
Trichlorobiphenyls	ND	0.0010	µg/L							
Tetrachlorobiphenyls	ND	0.0020	µg/L							
Pentachlorobiphenyls	ND	0.0020	µg/L							
Hexachlorobiphenyls	ND	0.0020	µg/L							
Heptachlorobiphenyls	ND	0.0030	µg/L							
Octachlorobiphenyls	ND	0.0030	µg/L							
Nonachlorobiphenyls	ND	0.0050	µg/L							
Decachlorobiphenyl	ND	0.0050	µg/L							
Total Polychlorinated biphenyls	0.0033		µg/L							B-07
Surrogate: Tetrachloro-m-xylene	*0.176*		µg/L	0.200		88.1	50-125			
LCS (B089806-BS1)				Prepared: 02/04/14 Analyzed: 02/05/14						
Monochlorobiphenyls	0.14	0.0010	µg/L	0.200		71.1	40-140			B-07, V-06, B
Dichlorobiphenyls	0.14	0.0010	µg/L	0.200		67.9	40-140			B-07, B
Trichlorobiphenyls	0.13	0.0010	µg/L	0.200		67.3	40-140			
Tetrachlorobiphenyls	0.27	0.0020	µg/L	0.400		68.0	40-140			
Pentachlorobiphenyls	0.28	0.0020	µg/L	0.400		70.8	40-140			
Hexachlorobiphenyls	0.27	0.0020	µg/L	0.400		68.5	40-140			
Heptachlorobiphenyls	0.42	0.0030	µg/L	0.600		70.2	40-140			
Octachlorobiphenyls	0.45	0.0030	µg/L	0.600		75.5	40-140			
Nonachlorobiphenyls	0.89	0.0050	µg/L	1.00		88.9	40-140			
Decachlorobiphenyl	0.86	0.0050	µg/L	1.00		85.7	40-140			
Surrogate: Tetrachloro-m-xylene	*0.165*		µg/L	0.200		82.5	50-125			
LCS Dup (B089806-BSD1)				Prepared: 02/04/14 Analyzed: 02/05/14						
Monochlorobiphenyls	0.16	0.0010	µg/L	0.200		77.9	40-140	9.12	50	B-07, V-06, B
Dichlorobiphenyls	0.15	0.0010	µg/L	0.200		75.3	40-140	10.3	50	B-07, B
Trichlorobiphenyls	0.15	0.0010	µg/L	0.200		74.2	40-140	9.69	50	
Tetrachlorobiphenyls	0.30	0.0020	µg/L	0.400		74.0	40-140	8.38	50	
Pentachlorobiphenyls	0.31	0.0020	µg/L	0.400		77.3	40-140	8.75	50	
Hexachlorobiphenyls	0.30	0.0020	µg/L	0.400		74.4	40-140	8.31	50	
Heptachlorobiphenyls	0.46	0.0030	µg/L	0.600		76.0	40-140	7.94	50	
Octachlorobiphenyls	0.48	0.0030	µg/L	0.600		80.2	40-140	6.09	50	
Nonachlorobiphenyls	0.93	0.0050	µg/L	1.00		92.8	40-140	4.35	50	
Decachlorobiphenyl	0.90	0.0050	µg/L	1.00		89.8	40-140	4.74	50	
Surrogate: Tetrachloro-m-xylene	*0.174*		µg/L	0.200		87.0	50-125			

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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.
B	Analyte is found in the associated blank as well as in the sample.
B-07	Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

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	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

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Email: info@contestlabs.com
www.contestlabs.com
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East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

14A0917

Company Name: AECOM
Address: 500 Enterprise Drive, Rocky Hill 06067
Attention: Malcom Bealer
Project Location: Greenwich High School
Sampled By: Luke Schoen

Telephone: (203) 278 4192
Project # 60225155
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ⊙ EMAIL ○ WEBSITE
Fax #
Email: luke.schoen2@aecom.com
Format: ⊙ PDF ⊙ EXCEL ⊙ GIS ⊙ OTHER EQuIS
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	PCB Homologues - EPA Method 680	Dissolved Metals: ○ Field Filtered ○ Lab to Filter
01	MW-AH16	1/31/14	8:55	GW	2		A	2			X	
02	MW-AJ19	1/31/14	9:50	GW	2		A	2			X	

ANALYSIS REQUESTED

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa 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= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:

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

Relinquished by: (signature)	Date/Time:
	1/31/14 11:00
Received by: (signature) Paul Racicot	Date/Time: 1/31/14 11:45
Relinquished by: (signature) Paul Racicot	Date/Time: 1:31:14 13:45
Received by: (signature) Kenneth Rc 2.4c 1/31/14 1745	Date/Time:

Turnaround ††
☐ 7-Day
[redacted]
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☒ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† 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 IS 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

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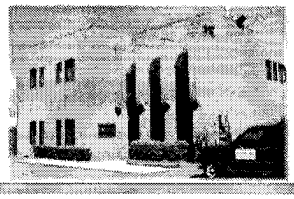

Sample Receipt Checklist

CLIENT NAME: AECOM RECEIVED BY: EOB DATE: 1-31-14

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 2.4°C

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:** 19

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	4	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 _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
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.	T	
18) There is sufficient volume for all requsted 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:** KOB **Date/Time:** 1-31-14 1745

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March 20, 2014

Bob Dwyer
AMEC LLC- Norwalk CT
270 Main Avenue
Norwalk, CT 06851

Project Location: Greenwich, CT-General Permit
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 14C0422

Enclosed are results of analyses for samples received by the laboratory on March 13, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

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

AMEC LLC- Norwalk CT
270 Main Avenue
Norwalk, CT 06851
ATTN: Bob Dwyer

REPORT DATE: 3/20/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14C0422

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

PROJECT LOCATION: Greenwich, CT-General Permit

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Dirty Tank	14C0422-01	Waste Water		EPA 1664B	
				EPA 200.7	
				EPA 245.1	
				EPA 420.1	
				EPA 608	
				EPA 624	
				EPA 625	
				SM18-20 3500 Cr B	
				SM18-20 4500 CN E	
				SM18-20 4500 CN G	
				SW-846 8151A	
Trip Blank	14C0422-02	Trip Blank Water		EPA 624	

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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.

EPA 608

Qualifications:

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

Analyte & Samples(s) Qualified:

alpha-BHC

B091940-BS1, B091940-BSD1

EPA 625

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Benzidine

14C0422-01[Dirty Tank], B091947-BLK1, B091947-BS1, B091947-BSD1

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

Analyte & Samples(s) Qualified:

Benzidine

14C0422-01[Dirty Tank], B091947-BLK1, B091947-BS1, B091947-BSD1

SW-846 8151A

Qualifications:

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

Analyte & Samples(s) Qualified:

2,4,5-T, 2,4,5-T [2C], 2,4,5-TP (Silvex), 2,4,5-TP (Silvex) [2C], 2,4-D, Dalapon, Dicamba

B091941-BS1, B091941-BSD1

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

Analyte & Samples(s) Qualified:

2,4,5-T, 2,4,5-T [2C], 2,4,5-TP (Silvex), 2,4,5-TP (Silvex) [2C]

14C0422-01[Dirty Tank]

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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.

Michael A. Erickson
Laboratory Director

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Project Location: Greenwich, CT-General Permit | Sample Description: | Work Order: 14C0422

Date Received: 3/13/2014

Field Sample #: Dirty Tank | Sampled: 3/13/2014 13:01

Sample ID: 14C0422-01

Sample Matrix: Waste Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
Bromoform	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
Bromomethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
Chloroethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
Chloroform	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
Chloromethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
Toluene	ND	1.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
1,1,1-Trichloroethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
m+p Xylene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF
o-Xylene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:59	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	80.6	70-130		3/15/14 19:59
Toluene-d8	98.4	70-130		3/15/14 19:59
4-Bromofluorobenzene	101	70-130		3/15/14 19:59

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Project Location: Greenwich, CT-General Permit | Sample Description: | Work Order: 14C0422

Date Received: 3/13/2014

Field Sample #: Dirty Tank | Sampled: 3/13/2014 13:01

Sample ID: 14C0422-01

Sample Matrix: Waste Water

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Acenaphthylene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Anthracene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Benzidine	ND	20	µg/L	1	L-04, V-05	EPA 625	3/15/14	3/19/14 20:53	CMR
Benzo(a)anthracene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Benzo(a)pyrene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Benzo(b)fluoranthene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Benzo(k)fluoranthene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
4-Bromophenylphenylether	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Butylbenzylphthalate	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
4-Chloro-3-methylphenol	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Bis(2-chloroethyl)ether	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
2-Chloronaphthalene	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
2-Chlorophenol	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
4-Chlorophenylphenylether	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Chrysene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Di-n-butylphthalate	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
1,3-Dichlorobenzene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
1,4-Dichlorobenzene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
1,2-Dichlorobenzene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
3,3-Dichlorobenzidine	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
2,4-Dichlorophenol	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Diethylphthalate	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
2,4-Dimethylphenol	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Dimethylphthalate	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
2,4-Dinitrophenol	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
2,4-Dinitrotoluene	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
2,6-Dinitrotoluene	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Di-n-octylphthalate	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Fluoranthene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Fluorene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Hexachlorobenzene	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Hexachlorobutadiene	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Hexachlorocyclopentadiene	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Hexachloroethane	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Isophorone	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR

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

Project Location: Greenwich, CT-General Permit | Sample Description: | Work Order: 14C0422

Date Received: 3/13/2014

Field Sample #: Dirty Tank | Sampled: 3/13/2014 13:01

Sample ID: 14C0422-01

Sample Matrix: Waste Water

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Nitrobenzene	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
2-Nitrophenol	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
4-Nitrophenol	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
N-Nitrosodimethylamine	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
N-Nitrosodiphenylamine	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Pentachlorophenol	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Phenanthrene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Phenol	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
Pyrene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR
2,4,6-Trichlorophenol	ND	10	µg/L	1		EPA 625	3/15/14	3/19/14 20:53	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	52.1	15-110		3/19/14 20:53
Phenol-d6	33.7	15-110		3/19/14 20:53
Nitrobenzene-d5	88.3	30-130		3/19/14 20:53
2-Fluorobiphenyl	77.8	30-130		3/19/14 20:53
2,4,6-Tribromophenol	82.4	15-110		3/19/14 20:53
p-Terphenyl-d14	84.1	30-130		3/19/14 20:53

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Project Location: Greenwich, CT-General Permit | Sample Description: | Work Order: 14C0422

Date Received: 3/13/2014

Field Sample #: Dirty Tank | Sampled: 3/13/2014 13:01

Sample ID: 14C0422-01

Sample Matrix: Waste Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aldrin [1]	ND	0.050	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
alpha-BHC [2]	ND	0.050	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
beta-BHC [1]	ND	0.050	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
delta-BHC [1]	ND	0.050	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
gamma-BHC (Lindane) [1]	ND	0.030	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
Chlordane [1]	ND	0.20	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
4,4'-DDD [1]	ND	0.080	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
4,4'-DDE [1]	ND	0.040	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
4,4'-DDT [1]	ND	0.080	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
Dieldrin [1]	ND	0.0020	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
Endosulfan I [1]	ND	0.050	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
Endosulfan II [1]	ND	0.080	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
Endosulfan sulfate [1]	ND	0.080	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
Endrin [1]	ND	0.080	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
Endrin aldehyde [1]	ND	0.080	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
Endrin ketone [1]	ND	0.080	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
Heptachlor [1]	ND	0.050	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
Heptachlor epoxide [1]	ND	0.050	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
Methoxychlor [1]	ND	0.50	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG
Toxaphene [1]	ND	1.0	µg/L	1		EPA 608	3/15/14	3/19/14 0:57	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.6	30-150		3/19/14 0:57
Decachlorobiphenyl [2]	83.4	30-150		3/19/14 0:57
Tetrachloro-m-xylene [1]	68.4	30-150		3/19/14 0:57
Tetrachloro-m-xylene [2]	69.7	30-150		3/19/14 0:57

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Project Location: Greenwich, CT-General Permit | Sample Description: | Work Order: 14C0422

Date Received: 3/13/2014

Field Sample #: Dirty Tank | Sampled: 3/13/2014 13:01

Sample ID: 14C0422-01

Sample Matrix: Waste 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		EPA 608	3/15/14	3/18/14 19:40	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		EPA 608	3/15/14	3/18/14 19:40	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		EPA 608	3/15/14	3/18/14 19:40	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		EPA 608	3/15/14	3/18/14 19:40	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		EPA 608	3/15/14	3/18/14 19:40	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		EPA 608	3/15/14	3/18/14 19:40	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		EPA 608	3/15/14	3/18/14 19:40	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.4	30-150		3/18/14 19:40
Decachlorobiphenyl [2]	88.9	30-150		3/18/14 19:40
Tetrachloro-m-xylene [1]	67.1	30-150		3/18/14 19:40
Tetrachloro-m-xylene [2]	78.4	30-150		3/18/14 19:40

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Project Location: Greenwich, CT-General Permit | Sample Description: | Work Order: 14C0422

Date Received: 3/13/2014

Field Sample #: Dirty Tank | Sampled: 3/13/2014 13:01

Sample ID: 14C0422-01

Sample Matrix: Waste Water

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	0.50	µg/L	1		SW-846 8151A	3/15/14	3/18/14 6:28	PJG
2,4,5-TP (Silvex) [2]	ND	0.050	µg/L	1	V-20	SW-846 8151A	3/15/14	3/18/14 6:28	PJG
2,4,5-T [2]	ND	0.10	µg/L	1	V-20	SW-846 8151A	3/15/14	3/18/14 6:28	PJG
Dalapon [2]	ND	1.2	µg/L	1		SW-846 8151A	3/15/14	3/18/14 6:28	PJG
Dicamba [2]	ND	0.050	µg/L	1		SW-846 8151A	3/15/14	3/18/14 6:28	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2,4-Dichlorophenylacetic acid [1]	99.4	30-150			3/18/14 6:28
2,4-Dichlorophenylacetic acid [2]	87.8	30-150			3/18/14 6:28

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Project Location: Greenwich, CT-General Permit | Sample Description: | Work Order: 14C0422

Date Received: 3/13/2014

Field Sample #: Dirty Tank | Sampled: 3/13/2014 13:01

Sample ID: 14C0422-01

Sample Matrix: Waste Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.010	mg/L	1		EPA 200.7	3/15/14	3/17/14 19:29	OP
Barium	0.15	0.10	mg/L	1		EPA 200.7	3/15/14	3/17/14 19:29	OP
Beryllium	ND	0.0020	mg/L	1		EPA 200.7	3/15/14	3/17/14 19:29	OP
Cadmium	ND	0.0010	mg/L	1		EPA 200.7	3/15/14	3/17/14 19:29	OP
Chromium	ND	0.0070	mg/L	1		EPA 200.7	3/15/14	3/17/14 19:29	OP
Cobalt	ND	0.010	mg/L	1		EPA 200.7	3/15/14	3/17/14 19:29	OP
Copper	0.0084	0.0050	mg/L	1		EPA 200.7	3/15/14	3/17/14 19:29	OP
Lead	ND	0.0050	mg/L	1		EPA 200.7	3/15/14	3/17/14 19:29	OP
Magnesium	14	0.050	mg/L	1		EPA 200.7	3/15/14	3/17/14 19:29	OP
Mercury	ND	0.00010	mg/L	1		EPA 245.1	3/15/14	3/17/14 11:21	JMP
Nickel	ND	0.0050	mg/L	1		EPA 200.7	3/15/14	3/17/14 19:29	OP
Selenium	ND	0.050	mg/L	1		EPA 200.7	3/15/14	3/17/14 19:29	OP
Silver	ND	0.010	mg/L	1		EPA 200.7	3/15/14	3/17/14 19:29	OP
Thallium	ND	0.060	mg/L	1		EPA 200.7	3/15/14	3/17/14 19:29	OP
Vanadium	ND	0.010	mg/L	1		EPA 200.7	3/15/14	3/17/14 19:29	OP
Zinc	ND	0.010	mg/L	1		EPA 200.7	3/15/14	3/17/14 19:29	OP
Boron	ND	0.10	mg/L	1		EPA 200.7	3/15/14	3/18/14 13:40	OP

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Project Location: Greenwich, CT-General Permit | Sample Description: | Work Order: 14C0422

Date Received: 3/13/2014

Field Sample #: Dirty Tank | Sampled: 3/13/2014 13:01

Sample ID: 14C0422-01

Sample Matrix: Waste Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	mg/L	1		SM18-20 4500 CN E	3/17/14	3/18/14 8:00	VLA
Cyanide (amenable)	ND	0.010	mg/L	1		SM18-20 4500 CN G	3/17/14	3/18/14 8:00	VLA
Hexavalent Chromium	ND	0.0040	mg/L	1		SM18-20 3500 Cr B	3/13/14	3/13/14 20:29	DJM
Phenol	ND	0.050	mg/L	1		EPA 420.1	3/18/14	3/20/14 14:00	LL
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L	1		EPA 1664B	3/19/14	3/19/14 13:45	LL

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Project Location: Greenwich, CT-General Permit | Sample Description: | Work Order: 14C0422

Date Received: 3/13/2014

Field Sample #: Trip Blank | Sampled: 3/13/2014 00:00

Sample ID: 14C0422-02

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
Bromodichloromethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
Bromoform	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
Bromomethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
Carbon Tetrachloride	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
Chlorobenzene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
Chlorodibromomethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
Chloroethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
2-Chloroethyl Vinyl Ether	ND	10	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
Chloroform	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
Chloromethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
1,2-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
1,3-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
1,4-Dichlorobenzene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
1,2-Dichloroethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
1,1-Dichloroethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
1,1-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
trans-1,2-Dichloroethylene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
1,2-Dichloropropane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
trans-1,3-Dichloropropene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
Ethylbenzene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
Methylene Chloride	ND	5.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
Tetrachloroethylene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
Toluene	ND	1.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
1,1,1-Trichloroethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
1,1,2-Trichloroethane	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
Trichloroethylene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
Vinyl Chloride	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
m+p Xylene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF
o-Xylene	ND	2.0	µg/L	1		EPA 624	3/14/14	3/15/14 19:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	79.2	70-130		3/15/14 19:28
Toluene-d8	98.4	70-130		3/15/14 19:28
4-Bromofluorobenzene	100	70-130		3/15/14 19:28

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Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
14C0422-01 [Dirty Tank]	B092128	1000	03/19/14

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14C0422-01 [Dirty Tank]	B091965	50.0	50.0	03/15/14

Prep Method: EPA 245.1-EPA 245.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14C0422-01 [Dirty Tank]	B091962	6.00	6.00	03/15/14

EPA 420.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14C0422-01 [Dirty Tank]	B092042	50.0	50.0	03/18/14

Prep Method: SW-846 3510C-EPA 608

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14C0422-01 [Dirty Tank]	B091939	1000	10.0	03/15/14

Prep Method: SW-846 3510C-EPA 608

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14C0422-01 [Dirty Tank]	B091940	1000	10.0	03/15/14

Prep Method: SW-846 5030B-EPA 624

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14C0422-01 [Dirty Tank]	B091886	5	5.00	03/14/14
14C0422-02 [Trip Blank]	B091886	5	5.00	03/14/14

Prep Method: SW-846 3510C-EPA 625

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14C0422-01 [Dirty Tank]	B091947	1000	1.00	03/15/14

SM18-20 3500 Cr B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14C0422-01 [Dirty Tank]	B091851	50.0	50.0	03/13/14

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

Sample Extraction Data

SM18-20 4500 CN E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14C0422-01 [Dirty Tank]	B092052	50.0	50.0	03/17/14

SM18-20 4500 CN G

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14C0422-01 [Dirty Tank]	B092053	50.0	50.0	03/17/14

Prep Method: SW-846 3510C-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14C0422-01 [Dirty Tank]	B091941	1000	5.00	03/15/14

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B091886 - SW-846 5030B										
Blank (B091886-BLK1)				Prepared: 03/14/14 Analyzed: 03/15/14						
Benzene	ND	1.0	µg/L							
Bromodichloromethane	ND	2.0	µg/L							
Bromoform	ND	2.0	µg/L							
Bromomethane	ND	2.0	µg/L							
Carbon Tetrachloride	ND	2.0	µg/L							
Chlorobenzene	ND	2.0	µg/L							
Chlorodibromomethane	ND	2.0	µg/L							
Chloroethane	ND	2.0	µg/L							
2-Chloroethyl Vinyl Ether	ND	10	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
1,2-Dichlorobenzene	ND	2.0	µg/L							
1,3-Dichlorobenzene	ND	2.0	µg/L							
1,4-Dichlorobenzene	ND	2.0	µg/L							
1,2-Dichloroethane	ND	2.0	µg/L							
1,1-Dichloroethane	ND	2.0	µg/L							
1,1-Dichloroethylene	ND	2.0	µg/L							
trans-1,2-Dichloroethylene	ND	2.0	µg/L							
1,2-Dichloropropane	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	2.0	µg/L							
trans-1,3-Dichloropropene	ND	2.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L							
Tetrachloroethylene	ND	2.0	µg/L							
Toluene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	2.0	µg/L							
1,1,2-Trichloroethane	ND	2.0	µg/L							
Trichloroethylene	ND	2.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*19.4*		µg/L	25.0		77.6	70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101	70-130			
LCS (B091886-BS1)				Prepared: 03/14/14 Analyzed: 03/15/14						
Benzene	11.1	1.0	µg/L	10.0		111	37-151			
Bromodichloromethane	7.95	2.0	µg/L	10.0		79.5	35-155			
Bromoform	7.11	2.0	µg/L	10.0		71.1	45-169			
Bromomethane	11.2	2.0	µg/L	10.0		112	20-242			
Carbon Tetrachloride	7.67	2.0	µg/L	10.0		76.7	70-140			
Chlorobenzene	11.5	2.0	µg/L	10.0		115	37-160			
Chlorodibromomethane	7.29	2.0	µg/L	10.0		72.9	53-149			
Chloroethane	8.12	2.0	µg/L	10.0		81.2	70-130			
2-Chloroethyl Vinyl Ether	95.7	10	µg/L	100		95.7	10-305			
Chloroform	9.70	2.0	µg/L	10.0		97.0	51-138			
Chloromethane	9.00	2.0	µg/L	10.0		90.0	20-273			
1,2-Dichlorobenzene	10.6	2.0	µg/L	10.0		106	18-190			
1,3-Dichlorobenzene	10.6	2.0	µg/L	10.0		106	59-156			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B091886 - SW-846 5030B										
LCS (B091886-BS1)				Prepared: 03/14/14 Analyzed: 03/15/14						
1,4-Dichlorobenzene	10.1	2.0	µg/L	10.0		101	18-190			
1,2-Dichloroethane	8.45	2.0	µg/L	10.0		84.5	49-155			
1,1-Dichloroethane	10.2	2.0	µg/L	10.0		102	59-155			
1,1-Dichloroethylene	8.90	2.0	µg/L	10.0		89.0	20-234			
trans-1,2-Dichloroethylene	8.51	2.0	µg/L	10.0		85.1	54-156			
1,2-Dichloropropane	10.3	2.0	µg/L	10.0		103	20-210			
cis-1,3-Dichloropropene	8.86	2.0	µg/L	10.0		88.6	20-227			
trans-1,3-Dichloropropene	7.25	2.0	µg/L	10.0		72.5	17-183			
Ethylbenzene	11.3	2.0	µg/L	10.0		113	37-162			
Methyl tert-Butyl Ether (MTBE)	7.98	2.0	µg/L	10.0		79.8	70-130			
Methylene Chloride	7.36	5.0	µg/L	10.0		73.6	50-221			
1,1,2,2-Tetrachloroethane	10.8	2.0	µg/L	10.0		108	46-157			
Tetrachloroethylene	10.9	2.0	µg/L	10.0		109	64-148			
Toluene	10.6	1.0	µg/L	10.0		106	47-150			
1,1,1-Trichloroethane	8.22	2.0	µg/L	10.0		82.2	52-162			
1,1,2-Trichloroethane	10.6	2.0	µg/L	10.0		106	52-150			
Trichloroethylene	11.5	2.0	µg/L	10.0		115	71-157			
Trichlorofluoromethane (Freon 11)	8.40	2.0	µg/L	10.0		84.0	17-181			
Vinyl Chloride	9.36	2.0	µg/L	10.0		93.6	20-251			
m+p Xylene	22.2	2.0	µg/L	20.0		111	70-130			
o-Xylene	10.8	2.0	µg/L	10.0		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	*19.8*		µg/L	25.0		79.1	70-130			
Surrogate: Toluene-d8	*24.9*		µg/L	25.0		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	*25.9*		µg/L	25.0		104	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B091947 - SW-846 3510C										
Blank (B091947-BLK1)				Prepared: 03/15/14 Analyzed: 03/19/14						
Acenaphthene	ND	2.5	µg/L							
Acenaphthylene	ND	2.5	µg/L							
Anthracene	ND	2.5	µg/L							
Benzidine	ND	10	µg/L							L-04, V-05
Benzo(a)anthracene	ND	2.5	µg/L							
Benzo(a)pyrene	ND	2.5	µg/L							
Benzo(b)fluoranthene	ND	2.5	µg/L							
Benzo(g,h,i)perylene	ND	2.5	µg/L							
Benzo(k)fluoranthene	ND	2.5	µg/L							
4-Bromophenylphenylether	ND	5.0	µg/L							
Butylbenzylphthalate	ND	5.0	µg/L							
4-Chloro-3-methylphenol	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	5.0	µg/L							
Bis(2-chloroethyl)ether	ND	5.0	µg/L							
Bis(2-chloroisopropyl)ether	ND	5.0	µg/L							
2-Chloronaphthalene	ND	5.0	µg/L							
2-Chlorophenol	ND	5.0	µg/L							
4-Chlorophenylphenylether	ND	5.0	µg/L							
Chrysene	ND	2.5	µg/L							
Dibenz(a,h)anthracene	ND	2.5	µg/L							
Di-n-butylphthalate	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	2.5	µg/L							
1,4-Dichlorobenzene	ND	2.5	µg/L							
1,2-Dichlorobenzene	ND	2.5	µg/L							
3,3-Dichlorobenzidine	ND	5.0	µg/L							
2,4-Dichlorophenol	ND	5.0	µg/L							
Diethylphthalate	ND	5.0	µg/L							
2,4-Dimethylphenol	ND	5.0	µg/L							
Dimethylphthalate	ND	5.0	µg/L							
4,6-Dinitro-2-methylphenol	ND	5.0	µg/L							
2,4-Dinitrophenol	ND	5.0	µg/L							
2,4-Dinitrotoluene	ND	5.0	µg/L							
2,6-Dinitrotoluene	ND	5.0	µg/L							
Di-n-octylphthalate	ND	5.0	µg/L							
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.0	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L							
Fluoranthene	ND	2.5	µg/L							
Fluorene	ND	2.5	µg/L							
Hexachlorobenzene	ND	5.0	µg/L							
Hexachlorobutadiene	ND	5.0	µg/L							
Hexachlorocyclopentadiene	ND	5.0	µg/L							
Hexachloroethane	ND	5.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	2.5	µg/L							
Isophorone	ND	5.0	µg/L							
Naphthalene	ND	2.5	µg/L							
Nitrobenzene	ND	5.0	µg/L							
2-Nitrophenol	ND	5.0	µg/L							
4-Nitrophenol	ND	5.0	µg/L							
N-Nitrosodimethylamine	ND	5.0	µg/L							
N-Nitrosodiphenylamine	ND	5.0	µg/L							
N-Nitrosodi-n-propylamine	ND	5.0	µg/L							
Pentachlorophenol	ND	5.0	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B091947 - SW-846 3510C											
Blank (B091947-BLK1)				Prepared: 03/15/14 Analyzed: 03/19/14							
Phenanthrene	ND	2.5	µg/L								
Phenol	ND	5.0	µg/L								
Pyrene	ND	2.5	µg/L								
1,2,4-Trichlorobenzene	ND	2.5	µg/L								
2,4,6-Trichlorophenol	ND	5.0	µg/L								
Surrogate: 2-Fluorophenol	*91.4*		µg/L	200		45.7		15-110			
Surrogate: Phenol-d6	*60.7*		µg/L	200		30.4		15-110			
Surrogate: Nitrobenzene-d5	*70.4*		µg/L	100		70.4		30-130			
Surrogate: 2-Fluorobiphenyl	*64.4*		µg/L	100		64.4		30-130			
Surrogate: 2,4,6-Tribromophenol	*139*		µg/L	200		69.6		15-110			
Surrogate: p-Terphenyl-d14	*72.1*		µg/L	100		72.1		30-130			
LCS (B091947-BS1)				Prepared: 03/15/14 Analyzed: 03/19/14							
Acenaphthene	78.1	5.0	µg/L	100		78.1		47-145			
Acenaphthylene	74.7	5.0	µg/L	100		74.7		33-145			
Anthracene	82.8	5.0	µg/L	100		82.8		27-133			
Benzidine	28.3	20	µg/L	100		**28.3**	*	40-140			L-04, V-05
Benzo(a)anthracene	83.4	5.0	µg/L	100		83.4		33-143			
Benzo(a)pyrene	86.0	5.0	µg/L	100		86.0		17-163			
Benzo(b)fluoranthene	86.6	5.0	µg/L	100		86.6		24-159			
Benzo(g,h,i)perylene	91.8	5.0	µg/L	100		91.8		1-219			
Benzo(k)fluoranthene	84.8	5.0	µg/L	100		84.8		11-162			
4-Bromophenylphenylether	85.4	10	µg/L	100		85.4		53-127			
Butylbenzylphthalate	89.4	10	µg/L	100		89.4		1-152			
4-Chloro-3-methylphenol	81.4	10	µg/L	100		81.4		22-147			
Bis(2-chloroethoxy)methane	108	10	µg/L	100		108		33-184			
Bis(2-chloroethyl)ether	79.8	10	µg/L	100		79.8		12-158			
Bis(2-chloroisopropyl)ether	80.9	10	µg/L	100		80.9		36-166			
2-Chloronaphthalene	65.8	10	µg/L	100		65.8		60-118			
2-Chlorophenol	72.5	10	µg/L	100		72.5		23-134			
4-Chlorophenylphenylether	82.6	10	µg/L	100		82.6		25-158			
Chrysene	70.6	5.0	µg/L	100		70.6		17-168			
Dibenz(a,h)anthracene	86.5	5.0	µg/L	100		86.5		1-227			
Di-n-butylphthalate	90.4	10	µg/L	100		90.4		1-118			
1,3-Dichlorobenzene	55.0	5.0	µg/L	100		55.0		1-172			
1,4-Dichlorobenzene	57.0	5.0	µg/L	100		57.0		20-124			
1,2-Dichlorobenzene	59.3	5.0	µg/L	100		59.3		32-129			
3,3-Dichlorobenzidine	53.7	10	µg/L	100		53.7		1-262			
2,4-Dichlorophenol	80.1	10	µg/L	100		80.1		39-135			
Diethylphthalate	76.0	10	µg/L	100		76.0		1-114			
2,4-Dimethylphenol	77.3	10	µg/L	100		77.3		32-119			
Dimethylphthalate	78.5	10	µg/L	100		78.5		1-112			
4,6-Dinitro-2-methylphenol	89.7	10	µg/L	100		89.7		1-181			
2,4-Dinitrophenol	86.0	10	µg/L	100		86.0		1-191			
2,4-Dinitrotoluene	63.7	10	µg/L	100		63.7		39-139			
2,6-Dinitrotoluene	63.9	10	µg/L	100		63.9		50-158			
Di-n-octylphthalate	107	10	µg/L	100		107		4-146			
1,2-Diphenylhydrazine (as Azobenzene)	88.9	10	µg/L	100		88.9		40-140			
Bis(2-Ethylhexyl)phthalate	89.3	10	µg/L	100		89.3		8-158			
Fluoranthene	77.5	5.0	µg/L	100		77.5		26-137			
Fluorene	78.9	5.0	µg/L	100		78.9		59-121			
Hexachlorobenzene	81.0	10	µg/L	100		81.0		1-152			

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B091947 - SW-846 3510C											
LCS (B091947-BS1)				Prepared: 03/15/14 Analyzed: 03/19/14							
Hexachlorobutadiene	64.5	10	µg/L	100		64.5		24-116			
Hexachlorocyclopentadiene	65.2	10	µg/L	100		65.2		40-140			
Hexachloroethane	59.3	10	µg/L	100		59.3		40-113			
Indeno(1,2,3-cd)pyrene	87.1	5.0	µg/L	100		87.1		1-171			
Isophorone	74.8	10	µg/L	100		74.8		21-196			
Naphthalene	69.3	5.0	µg/L	100		69.3		21-133			
Nitrobenzene	77.5	10	µg/L	100		77.5		35-180			
2-Nitrophenol	72.2	10	µg/L	100		72.2		29-182			
4-Nitrophenol	64.0	10	µg/L	100		64.0		1-132			
N-Nitrosodimethylamine	46.2	10	µg/L	100		46.2		40-140			
N-Nitrosodiphenylamine	99.8	10	µg/L	100		99.8		40-140			
N-Nitrosodi-n-propylamine	79.4	10	µg/L	100		79.4		1-230			
Pentachlorophenol	70.1	10	µg/L	100		70.1		14-176			
Phenanthrene	78.9	5.0	µg/L	100		78.9		54-120			
Phenol	36.0	10	µg/L	100		36.0		5-112			
Pyrene	85.9	5.0	µg/L	100		85.9		52-115			
1,2,4-Trichlorobenzene	66.2	5.0	µg/L	100		66.2		44-142			
2,4,6-Trichlorophenol	76.5	10	µg/L	100		76.5		37-144			
Surrogate: 2-Fluorophenol	*107*		µg/L	200		53.4		15-110			
Surrogate: Phenol-d6	*75.4*		µg/L	200		37.7		15-110			
Surrogate: Nitrobenzene-d5	*85.1*		µg/L	100		85.1		30-130			
Surrogate: 2-Fluorobiphenyl	*82.7*		µg/L	100		82.7		30-130			
Surrogate: 2,4,6-Tribromophenol	*167*		µg/L	200		83.7		15-110			
Surrogate: p-Terphenyl-d14	*93.8*		µg/L	100		93.8		30-130			
LCS Dup (B091947-BSD1)				Prepared: 03/15/14 Analyzed: 03/19/14							
Acenaphthene	76.6	5.0	µg/L	100		76.6		47-145	1.94		
Acenaphthylene	73.4	5.0	µg/L	100		73.4		33-145	1.73		
Anthracene	83.9	5.0	µg/L	100		83.9		27-133	1.33		
Benzidine	36.8	20	µg/L	100		**36.8**	*	40-140	26.3		L-04, V-05
Benzo(a)anthracene	84.7	5.0	µg/L	100		84.7		33-143	1.62		
Benzo(a)pyrene	84.8	5.0	µg/L	100		84.8		17-163	1.52		
Benzo(b)fluoranthene	90.3	5.0	µg/L	100		90.3		24-159	4.27		
Benzo(g,h,i)perylene	105	5.0	µg/L	100		105		1-219	13.5		
Benzo(k)fluoranthene	72.6	5.0	µg/L	100		72.6		11-162	15.5		
4-Bromophenylphenylether	85.4	10	µg/L	100		85.4		53-127	0.0937		
Butylbenzylphthalate	99.0	10	µg/L	100		99.0		1-152	10.2		
4-Chloro-3-methylphenol	86.7	10	µg/L	100		86.7		22-147	6.33		
Bis(2-chloroethoxy)methane	108	10	µg/L	100		108		33-184	0.490		
Bis(2-chloroethyl)ether	78.2	10	µg/L	100		78.2		12-158	1.91		
Bis(2-chloroisopropyl)ether	78.7	10	µg/L	100		78.7		36-166	2.76		
2-Chloronaphthalene	61.6	10	µg/L	100		61.6		60-118	6.61		
2-Chlorophenol	70.1	10	µg/L	100		70.1		23-134	3.32		
4-Chlorophenylphenylether	80.9	10	µg/L	100		80.9		25-158	2.18		
Chrysene	71.5	5.0	µg/L	100		71.5		17-168	1.29		
Dibenz(a,h)anthracene	95.3	5.0	µg/L	100		95.3		1-227	9.67		
Di-n-butylphthalate	91.3	10	µg/L	100		91.3		1-118	1.01		
1,3-Dichlorobenzene	57.5	5.0	µg/L	100		57.5		1-172	4.43		
1,4-Dichlorobenzene	59.2	5.0	µg/L	100		59.2		20-124	3.74		
1,2-Dichlorobenzene	61.0	5.0	µg/L	100		61.0		32-129	2.86		
3,3-Dichlorobenzidine	47.7	10	µg/L	100		47.7		1-262	11.8		
2,4-Dichlorophenol	80.5	10	µg/L	100		80.5		39-135	0.486		

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B091947 - SW-846 3510C										
LCS Dup (B091947-BSD1)				Prepared: 03/15/14 Analyzed: 03/19/14						
Diethylphthalate	77.7	10	µg/L	100		77.7	1-114	2.19		
2,4-Dimethylphenol	79.8	10	µg/L	100		79.8	32-119	3.11		
Dimethylphthalate	80.3	10	µg/L	100		80.3	1-112	2.33		
4,6-Dinitro-2-methylphenol	96.7	10	µg/L	100		96.7	1-181	7.53		
2,4-Dinitrophenol	97.8	10	µg/L	100		97.8	1-191	12.9		
2,4-Dinitrotoluene	69.4	10	µg/L	100		69.4	39-139	8.55		
2,6-Dinitrotoluene	66.1	10	µg/L	100		66.1	50-158	3.28		
Di-n-octylphthalate	112	10	µg/L	100		112	4-146	4.36		
1,2-Diphenylhydrazine (as Azobenzene)	85.5	10	µg/L	100		85.5	40-140	3.95		
Bis(2-Ethylhexyl)phthalate	98.3	10	µg/L	100		98.3	8-158	9.59		
Fluoranthene	77.9	5.0	µg/L	100		77.9	26-137	0.566		
Fluorene	77.8	5.0	µg/L	100		77.8	59-121	1.39		
Hexachlorobenzene	79.5	10	µg/L	100		79.5	1-152	1.81		
Hexachlorobutadiene	64.3	10	µg/L	100		64.3	24-116	0.217		
Hexachlorocyclopentadiene	54.1	10	µg/L	100		54.1	40-140	18.6		
Hexachloroethane	61.0	10	µg/L	100		61.0	40-113	2.79		
Indeno(1,2,3-cd)pyrene	96.0	5.0	µg/L	100		96.0	1-171	9.81		
Isophorone	74.4	10	µg/L	100		74.4	21-196	0.670		
Naphthalene	69.2	5.0	µg/L	100		69.2	21-133	0.231		
Nitrobenzene	76.9	10	µg/L	100		76.9	35-180	0.803		
2-Nitrophenol	72.0	10	µg/L	100		72.0	29-182	0.291		
4-Nitrophenol	68.6	10	µg/L	100		68.6	1-132	6.90		
N-Nitrosodimethylamine	45.9	10	µg/L	100		45.9	40-140	0.630		
N-Nitrosodiphenylamine	101	10	µg/L	100		101	40-140	1.13		
N-Nitrosodi-n-propylamine	78.7	10	µg/L	100		78.7	1-230	0.873		
Pentachlorophenol	72.7	10	µg/L	100		72.7	14-176	3.74		
Phenanthrene	72.7	5.0	µg/L	100		72.7	54-120	8.14		
Phenol	33.7	10	µg/L	100		33.7	5-112	6.60		
Pyrene	99.8	5.0	µg/L	100		99.8	52-115	14.9		
1,2,4-Trichlorobenzene	66.1	5.0	µg/L	100		66.1	44-142	0.0453		
2,4,6-Trichlorophenol	77.5	10	µg/L	100		77.5	37-144	1.34		
Surrogate: 2-Fluorophenol	*99.3*		µg/L	200		49.7	15-110			
Surrogate: Phenol-d6	*69.9*		µg/L	200		34.9	15-110			
Surrogate: Nitrobenzene-d5	*82.1*		µg/L	100		82.1	30-130			
Surrogate: 2-Fluorobiphenyl	*77.2*		µg/L	100		77.2	30-130			
Surrogate: 2,4,6-Tribromophenol	*174*		µg/L	200		87.1	15-110			
Surrogate: p-Terphenyl-d14	*105*		µg/L	100		105	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B091940 - SW-846 3510C										
Blank (B091940-BLK1)				Prepared: 03/15/14 Analyzed: 03/18/14						
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.080	µg/L							
4,4'-DDD [2C]	ND	0.080	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.080	µg/L							
4,4'-DDT [2C]	ND	0.080	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	*1.70*		µg/L	2.00		84.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.67*		µg/L	2.00		83.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.35*		µg/L	2.00		67.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.38*		µg/L	2.00		69.1	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B091940 - SW-846 3510C										
LCS (B091940-BS1)				Prepared: 03/15/14 Analyzed: 03/18/14						
Aldrin	0.14	0.050	µg/L	0.200		71.5	42-122			
Aldrin [2C]	0.14	0.050	µg/L	0.200		70.6	42-122			
alpha-BHC	0.18	0.050	µg/L	0.200		90.1	37-134			V-06
alpha-BHC [2C]	0.16	0.050	µg/L	0.200		77.9	37-134			
beta-BHC	0.18	0.050	µg/L	0.200		88.9	17-147			
beta-BHC [2C]	0.17	0.050	µg/L	0.200		82.5	17-147			
delta-BHC	0.13	0.050	µg/L	0.200		63.2	19-140			
delta-BHC [2C]	0.12	0.050	µg/L	0.200		58.5	19-140			
gamma-BHC (Lindane)	0.16	0.030	µg/L	0.200		79.8	32-127			
gamma-BHC (Lindane) [2C]	0.16	0.030	µg/L	0.200		82.0	32-127			
4,4'-DDD	0.18	0.080	µg/L	0.200		88.1	31-141			
4,4'-DDD [2C]	0.18	0.080	µg/L	0.200		89.0	31-141			
4,4'-DDE	0.18	0.040	µg/L	0.200		90.1	30-145			
4,4'-DDE [2C]	0.18	0.040	µg/L	0.200		89.4	30-145			
4,4'-DDT	0.18	0.080	µg/L	0.200		89.0	25-160			
4,4'-DDT [2C]	0.18	0.080	µg/L	0.200		89.3	25-160			
Dieldrin	0.18	0.0020	µg/L	0.200		91.6	36-146			
Dieldrin [2C]	0.18	0.0020	µg/L	0.200		88.1	36-146			
Endosulfan I	0.18	0.050	µg/L	0.200		91.7	45-153			
Endosulfan I [2C]	0.17	0.050	µg/L	0.200		85.6	45-153			
Endosulfan II	0.19	0.080	µg/L	0.200		94.2	10-202			
Endosulfan II [2C]	0.18	0.080	µg/L	0.200		91.3	10-202			
Endosulfan Sulfate	0.18	0.080	µg/L	0.200		89.1	26-144			
Endosulfan Sulfate [2C]	0.18	0.080	µg/L	0.200		89.2	26-144			
Endrin	0.18	0.080	µg/L	0.200		90.7	30-147			
Endrin [2C]	0.17	0.080	µg/L	0.200		85.9	30-147			
Endrin Aldehyde	0.21	0.080	µg/L	0.200		104	40-140			
Endrin Aldehyde [2C]	0.18	0.080	µg/L	0.200		89.7	40-140			
Endrin Ketone	0.19	0.080	µg/L	0.200		94.6	40-140			
Endrin Ketone [2C]	0.18	0.080	µg/L	0.200		91.0	40-140			
Heptachlor	0.15	0.050	µg/L	0.200		77.1	31-111			
Heptachlor [2C]	0.15	0.050	µg/L	0.200		74.8	31-111			
Heptachlor Epoxide	0.18	0.050	µg/L	0.200		88.7	37-142			
Heptachlor Epoxide [2C]	0.17	0.050	µg/L	0.200		84.7	37-142			
Methoxychlor	0.20	0.50	µg/L	0.200		97.5	40-140			
Methoxychlor [2C]	0.19	0.50	µg/L	0.200		95.5	40-140			
Surrogate: Decachlorobiphenyl	*1.68*		µg/L	2.00		84.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.67*		µg/L	2.00		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.21*		µg/L	2.00		60.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.23*		µg/L	2.00		61.7	30-150			
LCS Dup (B091940-BSD1)				Prepared: 03/15/14 Analyzed: 03/18/14						
Aldrin	0.15	0.050	µg/L	0.200		73.3	42-122	2.49		
Aldrin [2C]	0.14	0.050	µg/L	0.200		71.4	42-122	1.25		
alpha-BHC	0.18	0.050	µg/L	0.200		92.4	37-134	2.56		V-06
alpha-BHC [2C]	0.17	0.050	µg/L	0.200		82.6	37-134	5.89		
beta-BHC	0.18	0.050	µg/L	0.200		91.5	17-147	2.93		
beta-BHC [2C]	0.18	0.050	µg/L	0.200		90.1	17-147	8.76		
delta-BHC	0.13	0.050	µg/L	0.200		63.5	19-140	0.465		
delta-BHC [2C]	0.13	0.050	µg/L	0.200		62.8	19-140	7.13		
gamma-BHC (Lindane)	0.17	0.030	µg/L	0.200		85.0	32-127	6.33		
gamma-BHC (Lindane) [2C]	0.17	0.030	µg/L	0.200		86.9	32-127	5.89		

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B091940 - SW-846 3510C										
LCS Dup (B091940-BSD1)				Prepared: 03/15/14 Analyzed: 03/18/14						
4,4'-DDD	0.18	0.080	µg/L	0.200		91.7	31-141	4.00		
4,4'-DDD [2C]	0.19	0.080	µg/L	0.200		93.7	31-141	5.11		
4,4'-DDE	0.19	0.040	µg/L	0.200		94.6	30-145	4.87		
4,4'-DDE [2C]	0.19	0.040	µg/L	0.200		94.4	30-145	5.47		
4,4'-DDT	0.18	0.080	µg/L	0.200		92.4	25-160	3.68		
4,4'-DDT [2C]	0.18	0.080	µg/L	0.200		92.0	25-160	2.96		
Dieldrin	0.19	0.0020	µg/L	0.200		95.9	36-146	4.66		
Dieldrin [2C]	0.19	0.0020	µg/L	0.200		93.2	36-146	5.72		
Endosulfan I	0.19	0.050	µg/L	0.200		96.0	45-153	4.54		
Endosulfan I [2C]	0.18	0.050	µg/L	0.200		90.8	45-153	5.91		
Endosulfan II	0.20	0.080	µg/L	0.200		98.5	10-202	4.48		
Endosulfan II [2C]	0.19	0.080	µg/L	0.200		96.3	10-202	5.29		
Endosulfan Sulfate	0.19	0.080	µg/L	0.200		93.9	26-144	5.25		
Endosulfan Sulfate [2C]	0.18	0.080	µg/L	0.200		92.4	26-144	3.63		
Endrin	0.19	0.080	µg/L	0.200		93.8	30-147	3.33		
Endrin [2C]	0.18	0.080	µg/L	0.200		90.3	30-147	4.99		
Endrin Aldehyde	0.23	0.080	µg/L	0.200		117	40-140	11.7		
Endrin Aldehyde [2C]	0.20	0.080	µg/L	0.200		99.2	40-140	10.1		
Endrin Ketone	0.20	0.080	µg/L	0.200		99.6	40-140	5.17		
Endrin Ketone [2C]	0.19	0.080	µg/L	0.200		96.2	40-140	5.53		
Heptachlor	0.16	0.050	µg/L	0.200		79.1	31-111	2.60		
Heptachlor [2C]	0.15	0.050	µg/L	0.200		77.3	31-111	3.26		
Heptachlor Epoxide	0.19	0.050	µg/L	0.200		93.4	37-142	5.11		
Heptachlor Epoxide [2C]	0.18	0.050	µg/L	0.200		89.0	37-142	4.97		
Methoxychlor	0.20	0.50	µg/L	0.200		98.9	40-140	1.37		
Methoxychlor [2C]	0.19	0.50	µg/L	0.200		97.4	40-140	2.00		
Surrogate: Decachlorobiphenyl	*1.70*		µg/L	2.00		85.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.64*		µg/L	2.00		81.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.23*		µg/L	2.00		61.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.28*		µg/L	2.00		63.8	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B091939 - SW-846 3510C										
Blank (B091939-BLK1)				Prepared: 03/15/14 Analyzed: 03/18/14						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.57*		µg/L	2.00		78.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.74*		µg/L	2.00		86.8	30-150			
Surrogate: Tetrachloro-m-xylene	*1.35*		µg/L	2.00		67.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.53*		µg/L	2.00		76.7	30-150			
LCS (B091939-BS1)				Prepared: 03/15/14 Analyzed: 03/18/14						
Aroclor-1016	0.43	0.20	µg/L	0.500		86.7	50-114			
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500		104	50-114			
Aroclor-1260	0.44	0.20	µg/L	0.500		88.4	8-127			
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		99.1	8-127			
Surrogate: Decachlorobiphenyl	*1.57*		µg/L	2.00		78.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.76*		µg/L	2.00		87.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.35*		µg/L	2.00		67.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.55*		µg/L	2.00		77.3	30-150			
LCS Dup (B091939-BSD1)				Prepared: 03/15/14 Analyzed: 03/18/14						
Aroclor-1016	0.47	0.20	µg/L	0.500		94.4	50-114	8.59		
Aroclor-1016 [2C]	0.53	0.20	µg/L	0.500		105	50-114	1.76		
Aroclor-1260	0.47	0.20	µg/L	0.500		94.8	8-127	7.03		
Aroclor-1260 [2C]	0.53	0.20	µg/L	0.500		105	8-127	5.96		
Surrogate: Decachlorobiphenyl	*1.69*		µg/L	2.00		84.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.91*		µg/L	2.00		95.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.43*		µg/L	2.00		71.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.66*		µg/L	2.00		82.9	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B091941 - SW-846 3510C										
Blank (B091941-BLK1)				Prepared: 03/15/14 Analyzed: 03/18/14						
2,4-D	ND	0.50	µg/L							
2,4-D [2C]	ND	0.50	µg/L							
2,4,5-TP (Silvex)	ND	0.050	µg/L							
2,4,5-TP (Silvex) [2C]	ND	0.050	µg/L							
2,4,5-T	ND	0.10	µg/L							
2,4,5-T [2C]	ND	0.10	µg/L							
Dalapon	ND	1.2	µg/L							
Dalapon [2C]	ND	1.2	µg/L							
Dicamba	ND	0.050	µg/L							
Dicamba [2C]	ND	0.050	µg/L							
Surrogate: 2,4-Dichlorophenylacetic acid	*2.90*		µg/L	2.00		145	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	*2.55*		µg/L	2.00		128	30-150			
LCS (B091941-BS1)				Prepared: 03/15/14 Analyzed: 03/18/14						
2,4-D	3.04	0.50	µg/L	2.50		122	40-140			V-06
2,4-D [2C]	2.67	0.50	µg/L	2.50		107	40-140			
2,4,5-TP (Silvex)	0.308	0.050	µg/L	0.250		123	40-140			V-06
2,4,5-TP (Silvex) [2C]	0.293	0.050	µg/L	0.250		117	40-140			V-06
2,4,5-T	0.321	0.10	µg/L	0.250		128	40-140			V-06
2,4,5-T [2C]	0.309	0.10	µg/L	0.250		124	40-140			V-06
Dalapon	4.94	1.2	µg/L	6.25		79.1	40-140			V-06
Dalapon [2C]	4.19	1.2	µg/L	6.25		67.0	40-140			
Dicamba	0.324	0.050	µg/L	0.250		130	40-140			V-06
Dicamba [2C]	0.292	0.050	µg/L	0.250		117	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	*2.43*		µg/L	2.00		122	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	*2.13*		µg/L	2.00		106	30-150			
LCS Dup (B091941-BSD1)				Prepared: 03/15/14 Analyzed: 03/18/14						
2,4-D	3.26	0.50	µg/L	2.50		131	40-140	7.13	30	V-06
2,4-D [2C]	2.74	0.50	µg/L	2.50		109	40-140	2.50	30	
2,4,5-TP (Silvex)	0.326	0.050	µg/L	0.250		130	40-140	5.80	30	V-06
2,4,5-TP (Silvex) [2C]	0.315	0.050	µg/L	0.250		126	40-140	7.23	30	V-06
2,4,5-T	0.346	0.10	µg/L	0.250		139	40-140	7.67	30	V-06
2,4,5-T [2C]	0.334	0.10	µg/L	0.250		134	40-140	7.85	30	V-06
Dalapon	5.47	1.2	µg/L	6.25		87.5	40-140	10.2	30	V-06
Dalapon [2C]	4.67	1.2	µg/L	6.25		74.8	40-140	10.9	30	
Dicamba	0.349	0.050	µg/L	0.250		140	40-140	7.45	30	V-06
Dicamba [2C]	0.324	0.050	µg/L	0.250		130	40-140	10.5	30	
Surrogate: 2,4-Dichlorophenylacetic acid	*2.54*		µg/L	2.00		127	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	*2.24*		µg/L	2.00		112	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B091962 - EPA 245.1										
Blank (B091962-BLK1)				Prepared: 03/15/14 Analyzed: 03/17/14						
Mercury	ND	0.00010	mg/L							
LCS (B091962-BS1)				Prepared: 03/15/14 Analyzed: 03/17/14						
Mercury	0.00199	0.00010	mg/L	0.00200		99.4	85-115			
LCS Dup (B091962-BSD1)				Prepared: 03/15/14 Analyzed: 03/17/14						
Mercury	0.00197	0.00010	mg/L	0.00200		98.4	85-115	1.06	20	
Batch B091965 - EPA 200.7										
Blank (B091965-BLK1)				Prepared: 03/15/14 Analyzed: 03/17/14						
Arsenic	ND	0.010	mg/L							
Barium	ND	0.10	mg/L							
Beryllium	ND	0.0020	mg/L							
Cadmium	ND	0.0010	mg/L							
Chromium	ND	0.0070	mg/L							
Cobalt	ND	0.010	mg/L							
Copper	ND	0.0050	mg/L							
Lead	ND	0.0050	mg/L							
Magnesium	ND	0.050	mg/L							
Nickel	ND	0.0050	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Thallium	ND	0.060	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.010	mg/L							
Boron	ND	0.10	mg/L							
LCS (B091965-BS1)				Prepared: 03/15/14 Analyzed: 03/17/14						
Silver	0.488	0.010	mg/L	0.500		97.5	85-115			
LCS (B091965-BS2)				Prepared: 03/15/14 Analyzed: 03/17/14						
Arsenic	1.93	0.010	mg/L	2.00		96.5	85-115			
Barium	2.00	0.10	mg/L	2.00		100	85-115			
Beryllium	1.97	0.0020	mg/L	2.00		98.7	85-115			
Cadmium	2.10	0.0010	mg/L	2.00		105	85-115			
Chromium	2.00	0.0070	mg/L	2.00		100	85-115			
Cobalt	2.00	0.010	mg/L	2.00		99.8	85-115			
Copper	2.03	0.0050	mg/L	2.00		102	85-115			
Lead	1.95	0.0050	mg/L	2.00		97.4	85-115			
Magnesium	2.14	0.050	mg/L	2.00		107	85-115			
Nickel	1.96	0.0050	mg/L	2.00		98.0	85-115			
Selenium	2.04	0.050	mg/L	2.00		102	85-115			
Thallium	1.94	0.060	mg/L	2.00		97.2	85-115			
Vanadium	1.86	0.010	mg/L	2.00		92.9	85-115			
Zinc	1.96	0.010	mg/L	2.00		98.0	85-115			
Boron	1.87	0.10	mg/L	2.00		93.6	85-115			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B091965 - EPA 200.7										
LCS Dup (B091965-BSD1)				Prepared: 03/15/14 Analyzed: 03/17/14						
Silver	0.492	0.010	mg/L	0.500		98.4	85-115	0.931	20	
LCS Dup (B091965-BSD2)				Prepared: 03/15/14 Analyzed: 03/17/14						
Arsenic	1.94	0.010	mg/L	2.00		97.0	85-115	0.498	20	
Barium	1.99	0.10	mg/L	2.00		99.7	85-115	0.302	20	
Beryllium	1.96	0.0020	mg/L	2.00		98.1	85-115	0.592	20	
Cadmium	2.10	0.0010	mg/L	2.00		105	85-115	0.220	20	
Chromium	2.01	0.0070	mg/L	2.00		100	85-115	0.196	20	
Cobalt	2.00	0.010	mg/L	2.00		99.9	85-115	0.171	20	
Copper	2.02	0.0050	mg/L	2.00		101	85-115	0.273	20	
Lead	1.94	0.0050	mg/L	2.00		97.2	85-115	0.282	20	
Magnesium	2.14	0.050	mg/L	2.00		107	85-115	0.193	20	
Nickel	1.96	0.0050	mg/L	2.00		98.2	85-115	0.148	20	
Selenium	2.06	0.050	mg/L	2.00		103	85-115	1.00	20	
Thallium	1.95	0.060	mg/L	2.00		97.5	85-115	0.253	20	
Vanadium	1.85	0.010	mg/L	2.00		92.6	85-115	0.361	20	
Zinc	1.97	0.010	mg/L	2.00		98.4	85-115	0.319	20	
Boron	1.93	0.10	mg/L	2.00		96.6	85-115	3.22	20	

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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 B091851 - SM18-20 3500 Cr B										
Blank (B091851-BLK1)				Prepared & Analyzed: 03/13/14						
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B091851-BS1)				Prepared & Analyzed: 03/13/14						
Hexavalent Chromium	0.10	0.0040	mg/L	0.100		103	85.7-108			
LCS Dup (B091851-BSD1)				Prepared & Analyzed: 03/13/14						
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		106	85.7-108	2.95	10.8	
Duplicate (B091851-DUP1)	**Source: 14C0422-01**			Prepared & Analyzed: 03/13/14						
Hexavalent Chromium	ND	0.0040	mg/L		ND			NC	20	
Matrix Spike (B091851-MS1)	**Source: 14C0422-01**			Prepared & Analyzed: 03/13/14						
Hexavalent Chromium	0.10	0.0040	mg/L	0.100	ND	104	12.8-158			
Matrix Spike Dup (B091851-MSD1)	**Source: 14C0422-01**			Prepared & Analyzed: 03/13/14						
Hexavalent Chromium	0.10	0.0040	mg/L	0.100	ND	101	12.8-158	3.00	14.7	
Batch B092042 - EPA 420.1										
Blank (B092042-BLK1)				Prepared: 03/18/14 Analyzed: 03/20/14						
Phenol	ND	0.050	mg/L							
LCS (B092042-BS1)				Prepared: 03/18/14 Analyzed: 03/20/14						
Phenol	0.49	0.050	mg/L	0.500		97.4	80.2-133			
LCS Dup (B092042-BSD1)				Prepared: 03/18/14 Analyzed: 03/20/14						
Phenol	0.51	0.050	mg/L	0.500		102	80.2-133	4.71	20.7	
Duplicate (B092042-DUP1)	**Source: 14C0422-01**			Prepared: 03/18/14 Analyzed: 03/20/14						
Phenol	ND	0.050	mg/L		ND			NC	20	
Batch B092052 - SM18-20 4500 CN E										
Blank (B092052-BLK1)				Prepared: 03/17/14 Analyzed: 03/18/14						
Cyanide	ND	0.010	mg/L							
LCS (B092052-BS1)				Prepared: 03/17/14 Analyzed: 03/18/14						
Cyanide	0.65	0.010	mg/L	0.776		84.0	69.9-121			
LCS Dup (B092052-BSD1)				Prepared: 03/17/14 Analyzed: 03/18/14						
Cyanide	0.69	0.010	mg/L	0.776		88.7	69.9-121	5.46	17	

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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 B092052 - SM18-20 4500 CN E										
Duplicate (B092052-DUP1)	**Source: 14C0422-01**			Prepared: 03/17/14 Analyzed: 03/18/14						
Cyanide	ND	0.010	mg/L		ND			NC	20	
Matrix Spike (B092052-MS1)	**Source: 14C0422-01**			Prepared: 03/17/14 Analyzed: 03/18/14						
Cyanide	0.34	0.010	mg/L	0.362	ND	94.1	29.1-155			
Batch B092053 - SM18-20 4500 CN G										
Blank (B092053-BLK1)				Prepared: 03/17/14 Analyzed: 03/18/14						
Cyanide (amenable)	ND	0.010	mg/L							
Batch B092128 - EPA 1664B										
Blank (B092128-BLK1)				Prepared & Analyzed: 03/19/14						
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L							
LCS (B092128-BS1)				Prepared & Analyzed: 03/19/14						
Silica Gel Treated HEM (SGT-HEM)	18		mg/L	20.0		87.5	64-132			
Duplicate (B092128-DUP1)	**Source: 14C0422-01**			Prepared & Analyzed: 03/19/14						
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L		ND			NC	18	

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BREAKDOWN REPORT

Lab Sample ID:	S005614-PEM1	Analyzed:	03/18/2014

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.20
Endrin [1]	2.70

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.42
Endrin [2]	2.54

BREAKDOWN REPORT

Lab Sample ID:	S005614-PEM2	Analyzed:	03/18/2014

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.91
Endrin [1]	4.67

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.98
Endrin [2]	3.15

BREAKDOWN REPORT

Lab Sample ID:	S005614-PEM3	Analyzed:	03/18/2014

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.67
Endrin [1]	5.82

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BREAKDOWN REPORT

Lab Sample ID:	S005614-PEM3	Analyzed:	03/18/2014

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.64
Endrin [2]	4.40

BREAKDOWN REPORT

Lab Sample ID:	S005614-PEM4	Analyzed:	03/19/2014

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.62
Endrin [1]	5.34

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.49
Endrin [2]	4.10

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	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.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Arsenic	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Barium	NY,CT,NH,RI,NC,ME,VA,NJ
Beryllium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Cadmium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chromium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Cobalt	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Copper	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Lead	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Magnesium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Nickel	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Selenium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Silver	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Thallium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Vanadium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Zinc	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Boron	CT,NH,NY,RI,NC,ME,VA,NJ
EPA 245.1 in Water	
Mercury	CT,MA,NH,RI,NY,NC,ME,VA,NJ
EPA 420.1 in Water	
Phenol	CT,MA,NH,NY,RI,NC,ME,VA,NJ
EPA 608 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aldrin	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aldrin [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
alpha-BHC	CT,MA,NH,NY,RI,NC,ME,VA,NJ
alpha-BHC [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
beta-BHC	CT,MA,NH,NY,RI,NC,ME,VA,NJ
beta-BHC [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
delta-BHC	CT,MA,NH,NY,RI,NC,ME,VA,NJ
delta-BHC [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
gamma-BHC (Lindane)	CT,MA,NH,NY,RI,NC,ME,VA,NJ
gamma-BHC (Lindane) [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chlordane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chlordane [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
4,4'-DDD	CT,MA,NH,NY,RI,NC,ME,VA,NJ
4,4'-DDD [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
4,4'-DDE	CT,MA,NH,NY,RI,NC,ME,VA,NJ
4,4'-DDE [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
4,4'-DDT	CT,MA,NH,NY,RI,NC,ME,VA,NJ
4,4'-DDT [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Dieldrin	CT,MA,NH,NY,RI,NC,ME,VA,NJ

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 608 in Water	
Dieldrin [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endosulfan II	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endosulfan II [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endosulfan Sulfate	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endosulfan Sulfate [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endrin	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endrin [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endrin Aldehyde	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Endrin Aldehyde [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Heptachlor	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Heptachlor [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Methoxychlor	CT,NH,NY,RI,NC
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Methoxychlor [2C]	CT,NH,NY,RI,NC
Toxaphene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Toxaphene [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA,NJ
EPA 624 in Water	
Benzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Bromodichloromethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Bromoform	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Bromomethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Carbon Tetrachloride	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chlorodibromomethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
2-Chloroethyl Vinyl Ether	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chloroform	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chloromethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,3-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,4-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2-Dichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1-Dichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1-Dichloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
trans-1,2-Dichloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 624 in Water	
1,2-Dichloropropane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
cis-1,3-Dichloropropene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
trans-1,3-Dichloropropene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Ethylbenzene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Naphthalene	NC
1,1,2,2-Tetrachloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Tetrachloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Toluene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,2,4-Trichlorobenzene	NC
1,1,1-Trichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
1,1,2-Trichloroethane	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Trichloroethylene	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Trichlorofluoromethane (Freon 11)	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Vinyl Chloride	CT,MA,NH,NY,RI,NC,ME,VA,NJ
m+p Xylene	CT,MA,NH,NY,RI,NC,VA,NJ
o-Xylene	CT,MA,NH,NY,RI,NC,VA,NJ
EPA 625 in Water	
Acenaphthene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Acenaphthylene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Anthracene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Benzidine	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Benzo(a)anthracene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Benzo(a)pyrene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Benzo(b)fluoranthene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Benzo(g,h,i)perylene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Benzo(k)fluoranthene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
4-Bromophenylphenylether	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Butylbenzylphthalate	CT,MA,NH,NY,NC,NJ,RI,ME,VA
4-Chloro-3-methylphenol	CT,MA,NH,NY,NC,NJ,RI,VA
Bis(2-chloroethoxy)methane	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Bis(2-chloroethyl)ether	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Bis(2-chloroisopropyl)ether	CT,MA,NH,NY,NC,NJ,RI,ME,VA
2-Chloronaphthalene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
2-Chlorophenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
4-Chlorophenylphenylether	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Chrysene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Dibenz(a,h)anthracene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Di-n-butylphthalate	CT,MA,NH,NY,NC,NJ,RI,ME,VA
1,3-Dichlorobenzene	MA,NC
1,4-Dichlorobenzene	MA,NC
1,2-Dichlorobenzene	MA,NC
3,3-Dichlorobenzidine	CT,MA,NH,NY,NC,NJ,RI,ME,VA
2,4-Dichlorophenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Diethylphthalate	CT,MA,NH,NY,NC,NJ,RI,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 625 in Water	
2,4-Dimethylphenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Dimethylphthalate	CT,MA,NH,NY,NC,NJ,RI,ME,VA
4,6-Dinitro-2-methylphenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
2,4-Dinitrophenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
2,4-Dinitrotoluene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
2,6-Dinitrotoluene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Di-n-octylphthalate	CT,MA,NH,NY,NC,NJ,RI,ME,VA
1,2-Diphenylhydrazine (as Azobenzene)	NC
Bis(2-Ethylhexyl)phthalate	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Fluoranthene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Fluorene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Hexachlorobenzene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Hexachlorobutadiene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Hexachlorocyclopentadiene	CT,MA,NH,NY,NC,RI,ME,VA
Hexachloroethane	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Indeno(1,2,3-cd)pyrene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Isophorone	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Naphthalene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Nitrobenzene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
2-Nitrophenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
4-Nitrophenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
N-Nitrosodimethylamine	CT,MA,NH,NY,NC,NJ,RI,ME,VA
N-Nitrosodiphenylamine	CT,MA,NH,NY,NC,NJ,RI,ME,VA
N-Nitrosodi-n-propylamine	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Pentachlorophenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Phenanthrene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Phenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
Pyrene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
1,2,4-Trichlorobenzene	CT,MA,NH,NY,NC,NJ,RI,ME,VA
2,4,6-Trichlorophenol	CT,MA,NH,NY,NC,NJ,RI,ME,VA
2-Fluorophenol	NC
SM18-20 3500 Cr B in Water	
Hexavalent Chromium	NY,CT,NH,RI,ME,VA,NJ,NC
SM18-20 4500 CN E in Water	
Cyanide	CT,MA,NH,NY,RI,NC,ME,VA,NJ

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

1404022

Rev 04.05.12

Page_____of_____

Company Name: AMEC LLC
Telephone: 203-952-3118
Address: 270 Main Ave Norwalk CT
Project #
Client PO#
Attention: Bob Dwyer
Project Location: Greenwich High School
Sampled By:

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #
Email: bdwyer@amecllc.com
Format: ○ PDF ○ EXCEL ○ GIS
○ OTHER_____
○ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	VOCs	herbicides	metals	pesticides	PCBs	1664	total phenols	SVOCs	total/amenalbe CN	hex Cr
01	Dirty Tank *	3/13/14	13:01								✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
02	Trip Blank *										✓									

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa 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= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:
*Sample ID/DATE/TIME taken from sample containers

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

Relinquished by: (signature) Ray Lussier	1:15 pm	Date/Time: 3/13/14
Received by: (signature)	6°C 16:30	Date/Time: 3/13/14
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
◉ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

AIHA LAP, LLC ACCREDITED LABORATORY
ACCREDITED IN ACCORDANCE WITH nelac
NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

†† 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 IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Chris Collins

From: Lisa Worthington [lisa.worthington@contestlabs.com]
Sent: Thursday, March 13, 2014 4:00 PM
To: 'Chris Collins'; 'Login@ContestLabs.com'; rebecca.faust@contestlabs.com
Subject: AMEC LLC

Please use the Greenwich, CT-General Permit project for the samples coming back today. Log in the sample for everything in the project.
Thanks,
Lisa

Lisa Worthington-Project Manager

con-test
ANALYTICAL LABORATORY

39 Spruce St | East Longmeadow MA 01028 |(413) 525-2332 | Fax (413) 525-6405

www.contestlabs.com | See us on:

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East Longmeadow, MA. 01028
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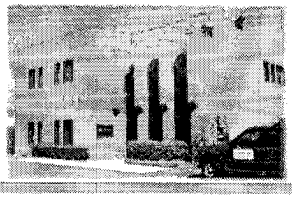


Sample Receipt Checklist

CLIENT NAME: AMEC LLC **RECEIVED BY:** _____ **DATE:** _____

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

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 6.0°C

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 Dave Date 3/13/14 Time 1630

7) **Location where samples are stored:** 19

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	10	8 oz amber/clear jar	
500 mL Amber	1	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	3	Non-ConTest Container	
40 mL Vial - type listed below	6	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:
Courier did not receive or relinquish custody
SAMPLE ID/DATE/TIMES taken from samples and put on chain.

40 mL vials: # HCl 6 # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
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.	F	SEE LAB COMMENTS
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 requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
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:**

MJ 3/13/14 1630

Appendix E
Air Monitoring Reports

AECOM
250 Apollo Drive
Chelmsford, MA 01824

978.905.2100 tel
978.905.2101 fax

Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**8/19/13 – 8/25/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted on the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable with one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter from three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentrations greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 8/19/13	64.1	50.7	49.3	NA[1]
Tue 8/20/13	48.5	58.9	49.1	50
Wed 8/21/13	104.0	108.5	69.2	53
Thu 8/22/13	82.6	93.7	92.7	42
Fri 8/23/13	37.5	40.5	130.5	26

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] There were no outside excavation activities; therefore, hand-held air monitoring was not performed.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Action Level	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
NA	NA	NA	NA	NA	NA	NA	NA	NA	Concentrations remained below the Action Level.

Definitions:

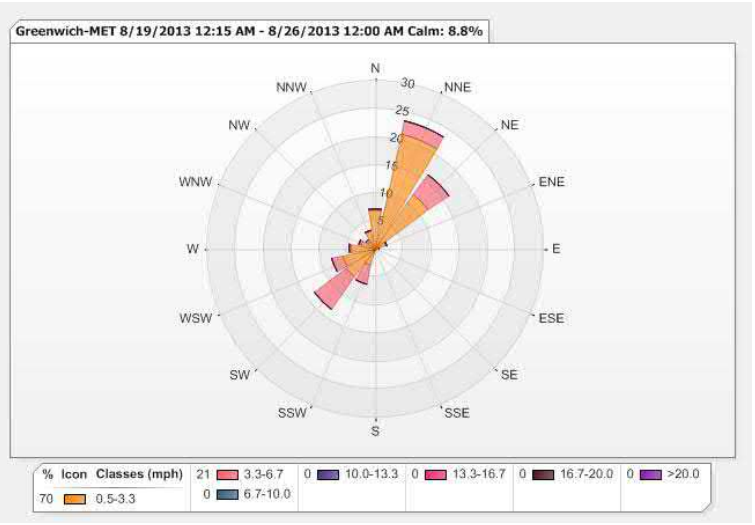
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

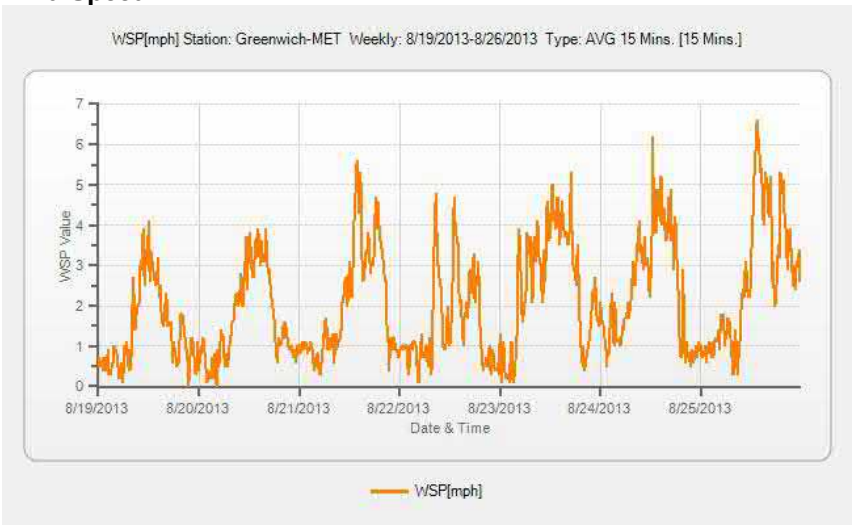
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (8/19/13 – 8/25/13)

Wind Rose:



Wind Speed:



Temperature:

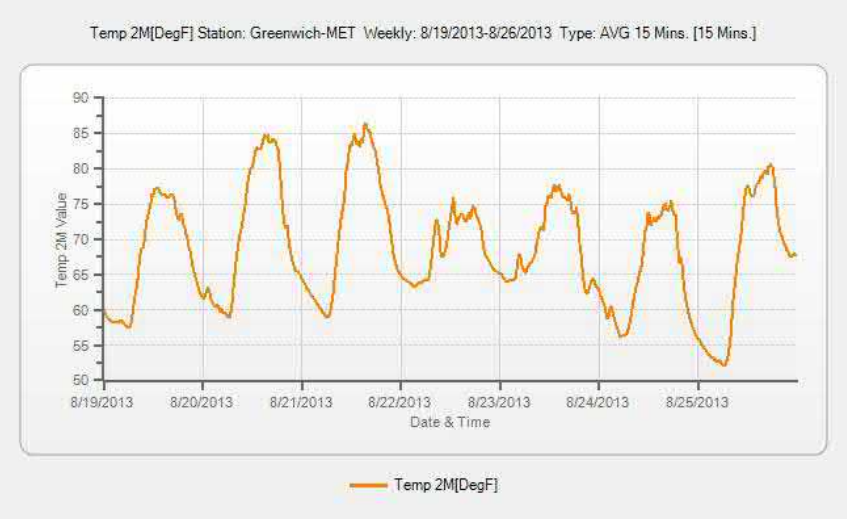
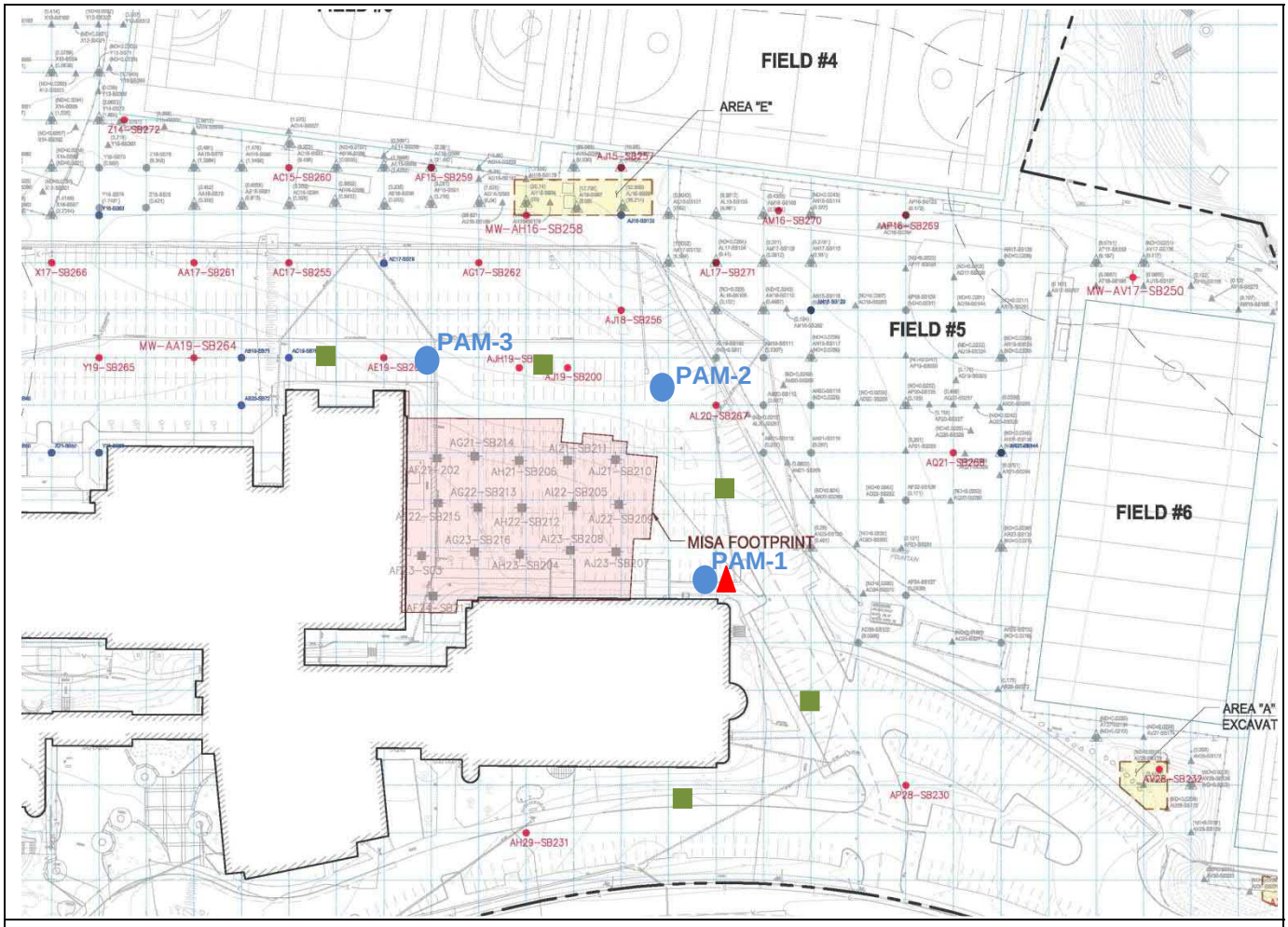


Figure 2: Site Map (8/19/13 – 8/23/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

AECOM
250 Apollo Drive
Chelmsford, MA 01824

978.905.2100 tel
978.905.2101 fax

Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**8/26/13 – 9/1/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted on the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable with one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter from three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentrations greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2** and **Figure 3**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 8/26/13	33.1	32.8	27.5	104
Tue 8/27/13	54.7	27.9	27.1	26
Wed 8/28/13	33.9	45.8	36.8	34
Thu 8/29/13	34.0	48.3	52.0	62
Fri 8/30/13	50.6	35.1	32.6	53

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Action Level	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
NA	NA	NA	NA	NA	NA	NA	NA	NA	Concentrations remained below the Action Level.

Definitions:

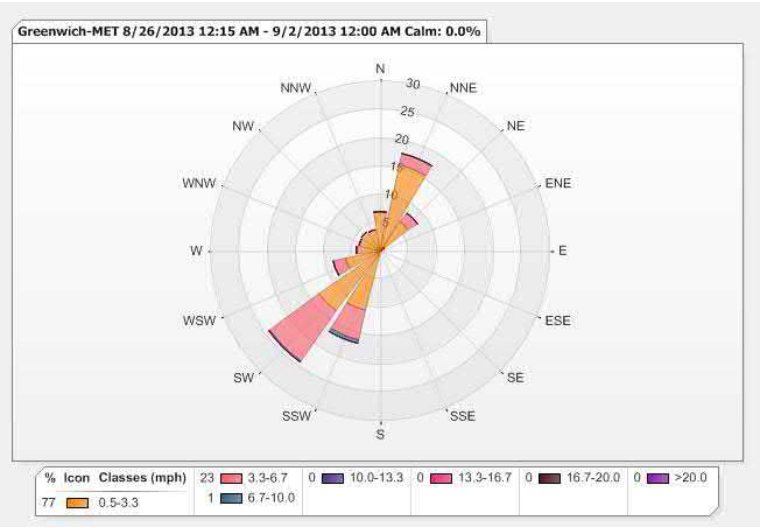
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

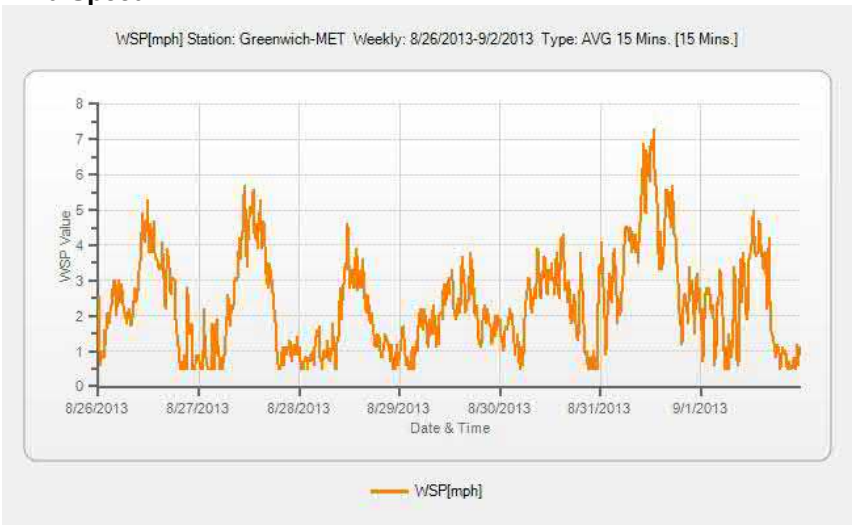
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (8/26/13 – 9/1/13)

Wind Rose:



Wind Speed:



Temperature:

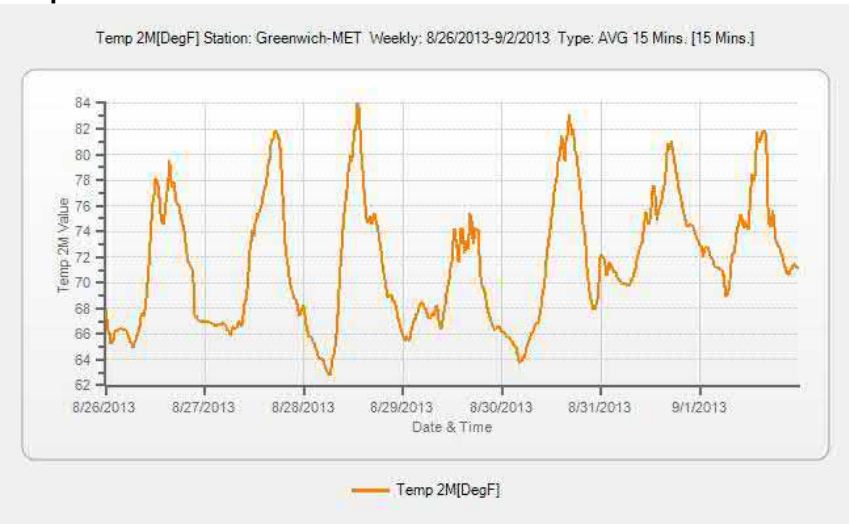
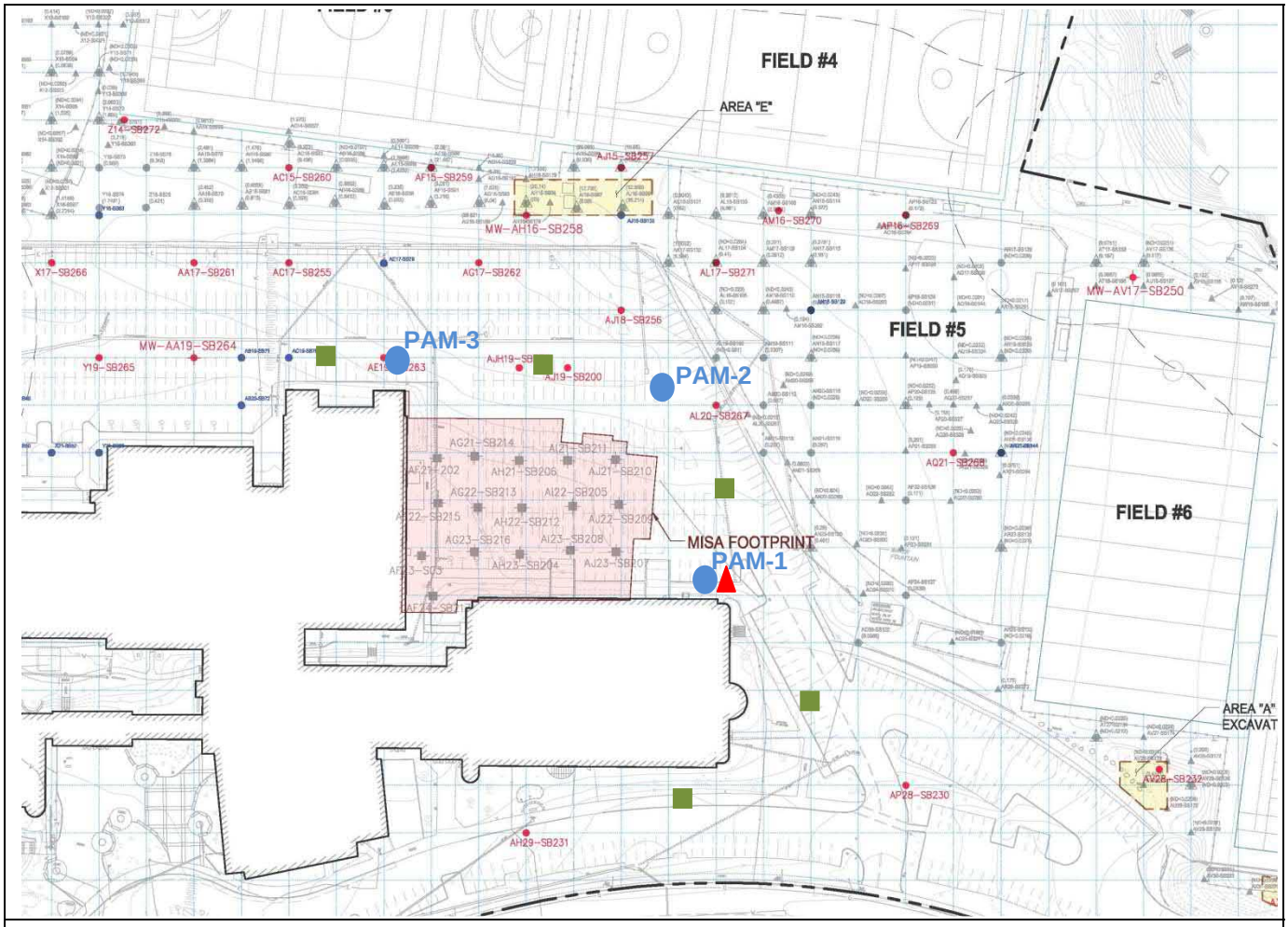


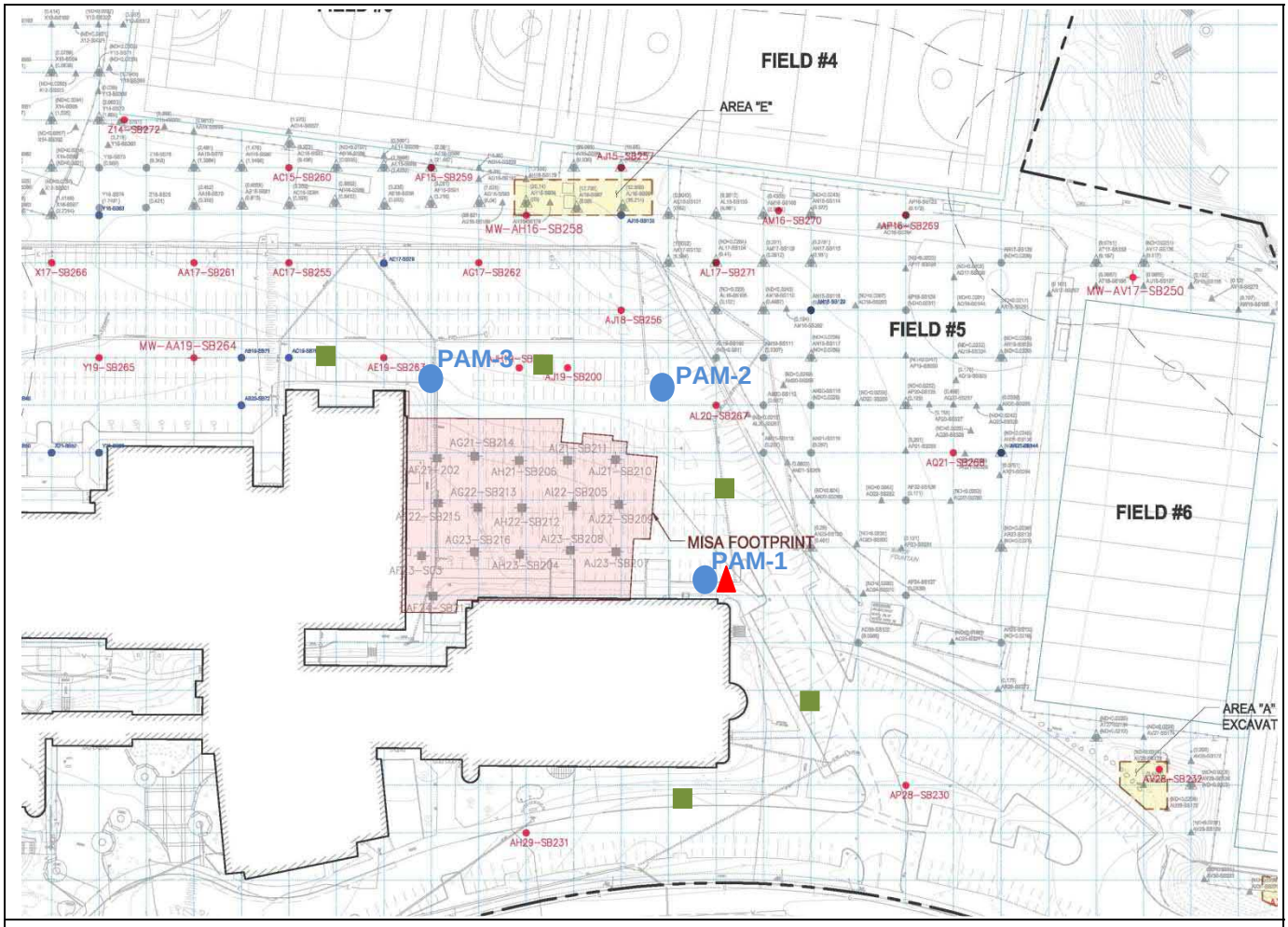
Figure 2: Site Map (8/26/13 – 8/27/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

Figure 3: Site Map (8/28/13 – 8/30/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

AECOM
250 Apollo Drive
Chelmsford, MA 01824

978.905.2100 tel
978.905.2101 fax

Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**9/2/13 – 9/8/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted on the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable with one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter from three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there was one PM_{10} concentration greater than the Action Level. The elevated PM_{10} concentration was evaluated further in accordance with the PAMP. After performing background subtraction, the elevated PM_{10} concentrations fell below the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 9/2/13	NA[1]	NA[1]	NA[1]	NA[1]
Tue 9/3/13	46.9	54.8	163.7	86
Wed 9/4/13	45.1	21.5	25.2	41
Thu 9/5/13	19.9	23.9	34.8	23
Fri 9/6/13	49.3	24.7	92.3	28

Definitions:

PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrograms per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Site closed for Labor Day Holiday (no Site activities).

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	Tue 9/3/13	11:15AM	PAM-3	NE 2.0 mph	163.7	27.7	136.0	Elevated PM_{10} concentration was caused by excavation activities in the vicinity of PAM-3. Concentrations quickly dropped below the Action Level; therefore, no response was required.

Definitions:

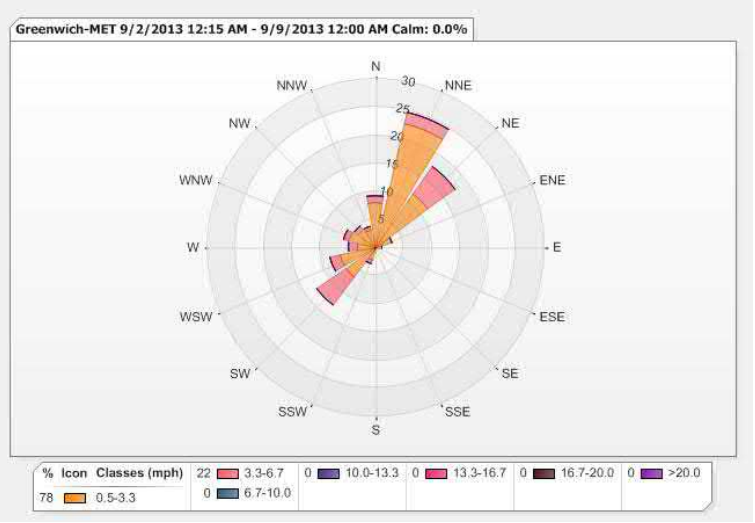
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

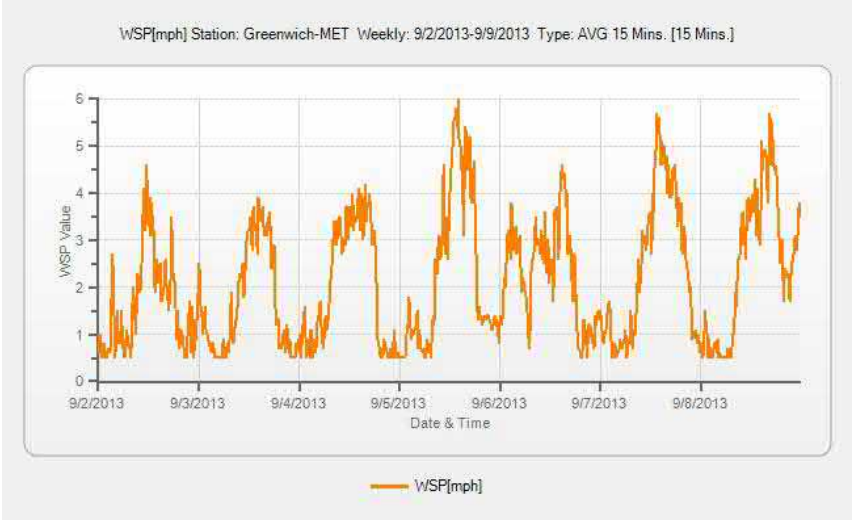
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (9/2/13 – 9/8/13)

Wind Rose:



Wind Speed:



Temperature:

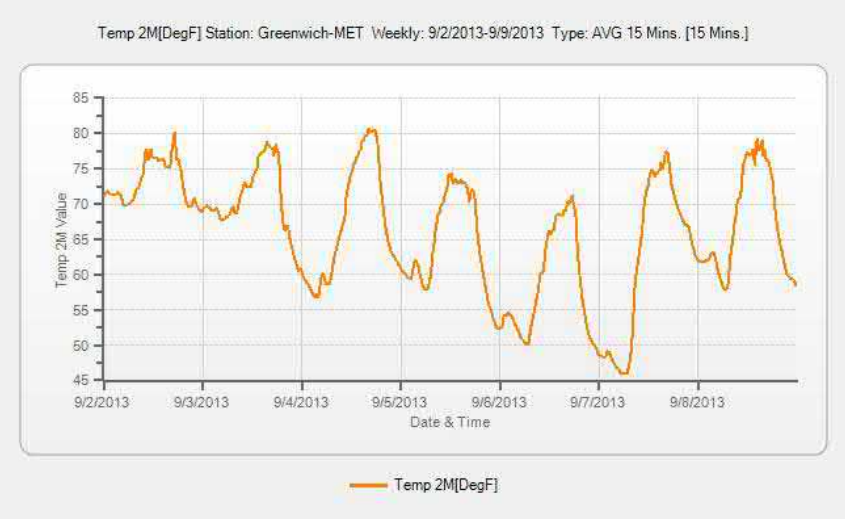
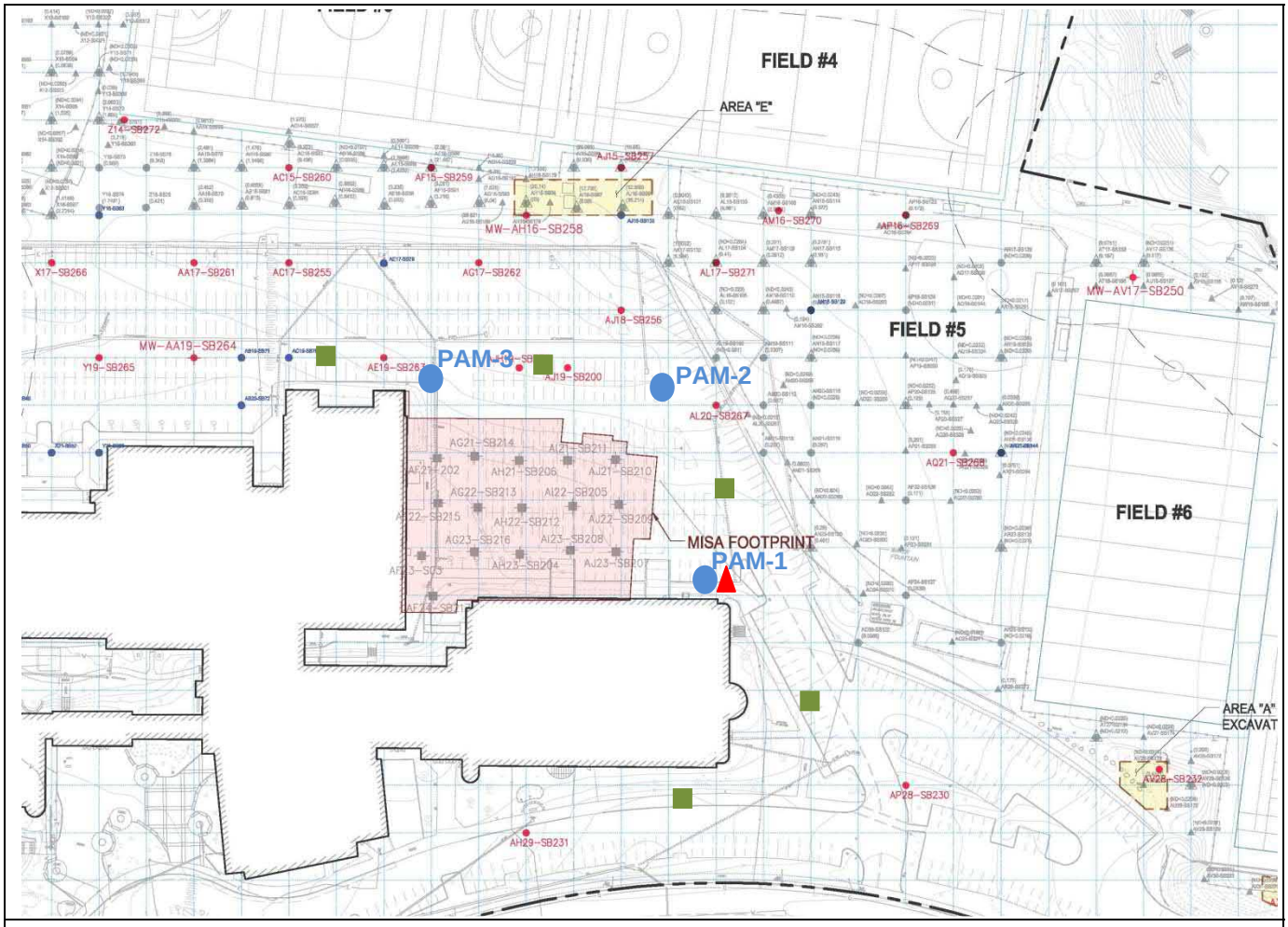


Figure 2: Site Map (9/2/13 – 9/8/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**9/9/13 – 9/15/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted on the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable with one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter from three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no impacted soil activities; therefore, air monitoring was not performed. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 9/9/13	NA[1]	NA[1]	NA[1]	NA[1]
Tue 9/10/13	NA[1]	NA[1]	NA[1]	NA[1]
Wed 9/11/13	NA[1]	NA[1]	NA[1]	NA[1]
Thu 9/12/13	NA[1]	NA[1]	NA[1]	NA[1]
Fri 9/13/13	NA[1]	NA[1]	NA[1]	NA[1]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] There were no impacted soil activities on Site; therefore, air monitoring was not performed.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
NA	NA	NA	NA	NA	NA	NA	NA	Air monitoring not performed.

Definitions:

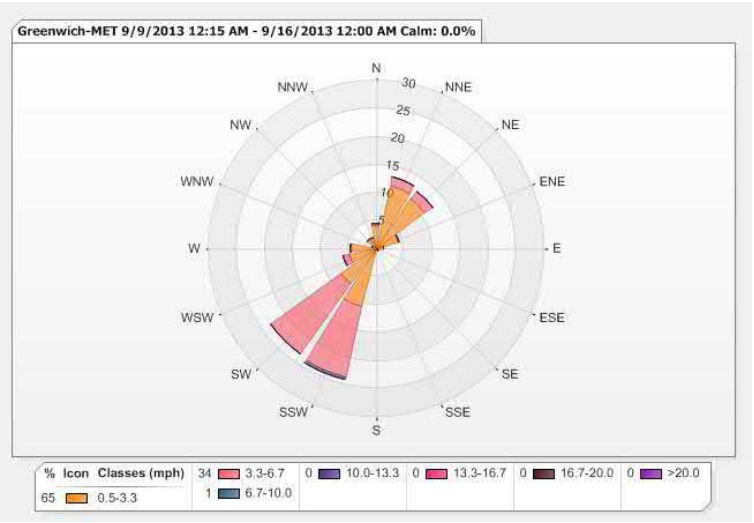
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

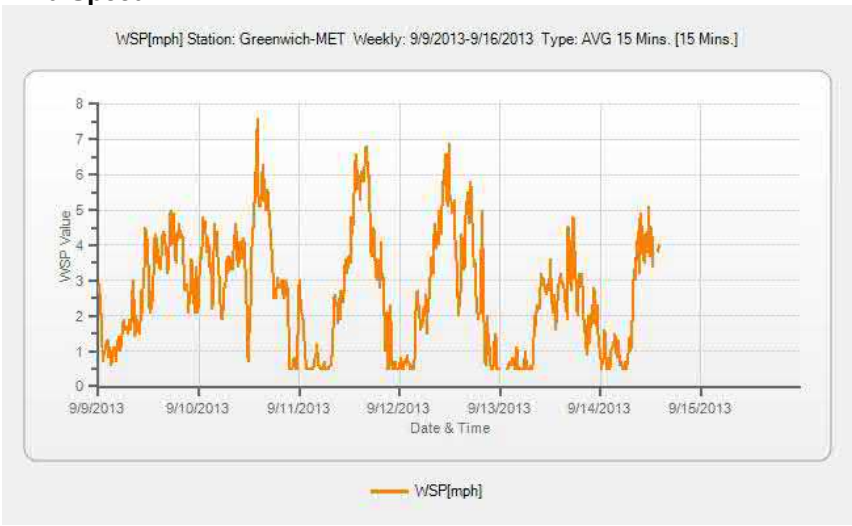
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (9/9/13 – 9/15/13)

Wind Rose:



Wind Speed:



Temperature:

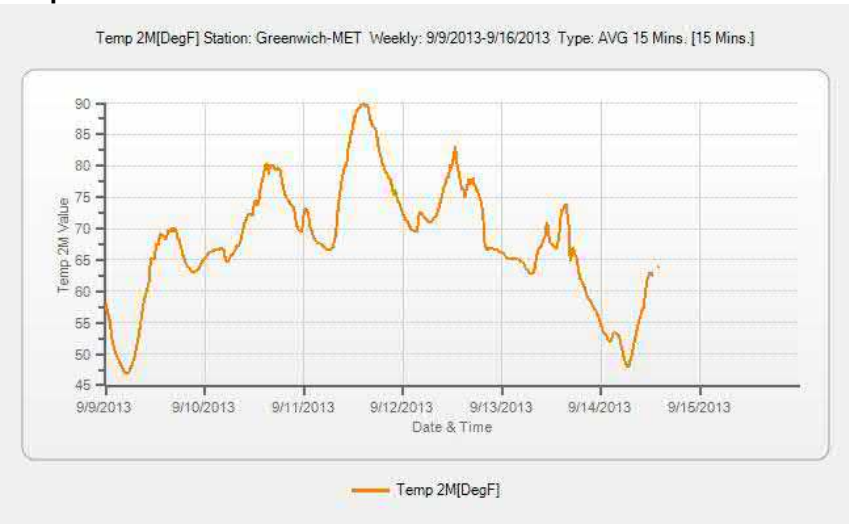
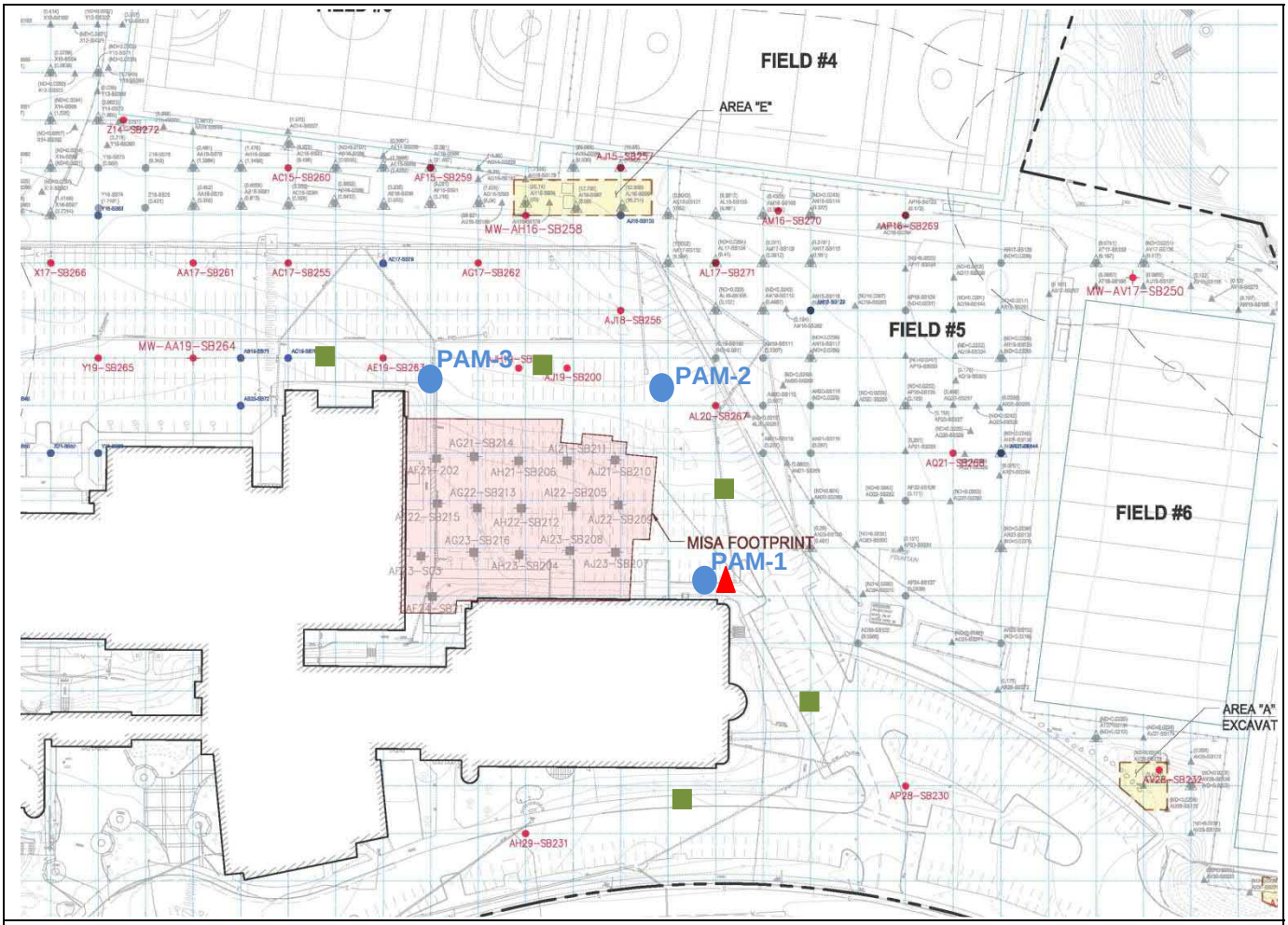


Figure 2: Site Map (9/9/13 – 9/15/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**9/16/13 – 9/22/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted on the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable with one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter from three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no impacted soil activities; therefore, air monitoring was not performed. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 9/16/13	NA[1]	NA[1]	NA[1]	NA[1]
Tue 9/17/13	NA[1]	NA[1]	NA[1]	NA[1]
Wed 9/18/13	NA[1]	NA[1]	NA[1]	NA[1]
Thu 9/19/13	NA[1]	NA[1]	NA[1]	NA[1]
Fri 9/20/13	NA[1]	NA[1]	NA[1]	NA[1]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] There were no impacted soil activities on Site; therefore, air monitoring was not performed.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
NA	NA	NA	NA	NA	NA	NA	NA	Air monitoring not performed.

Definitions:

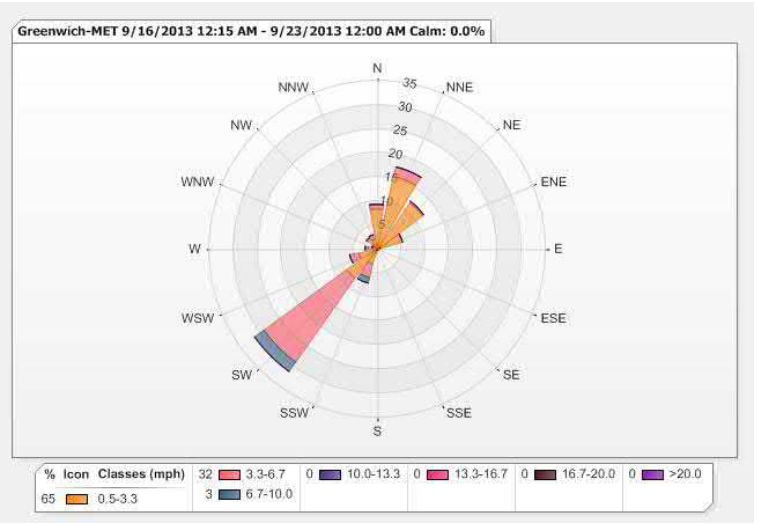
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

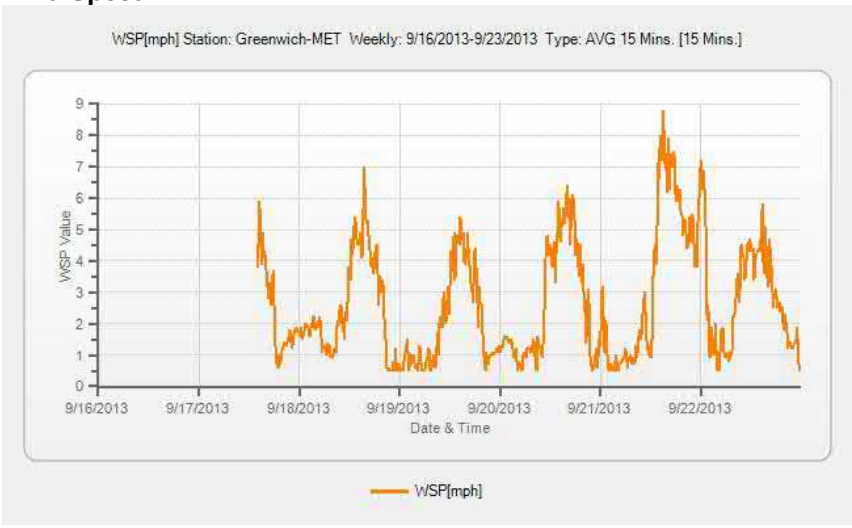
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (9/16/13 – 9/22/13)

Wind Rose:



Wind Speed:



Temperature:

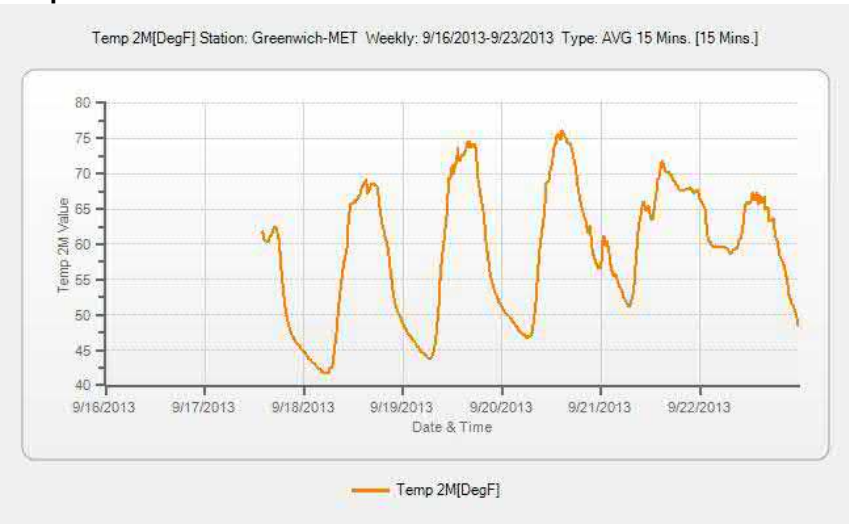
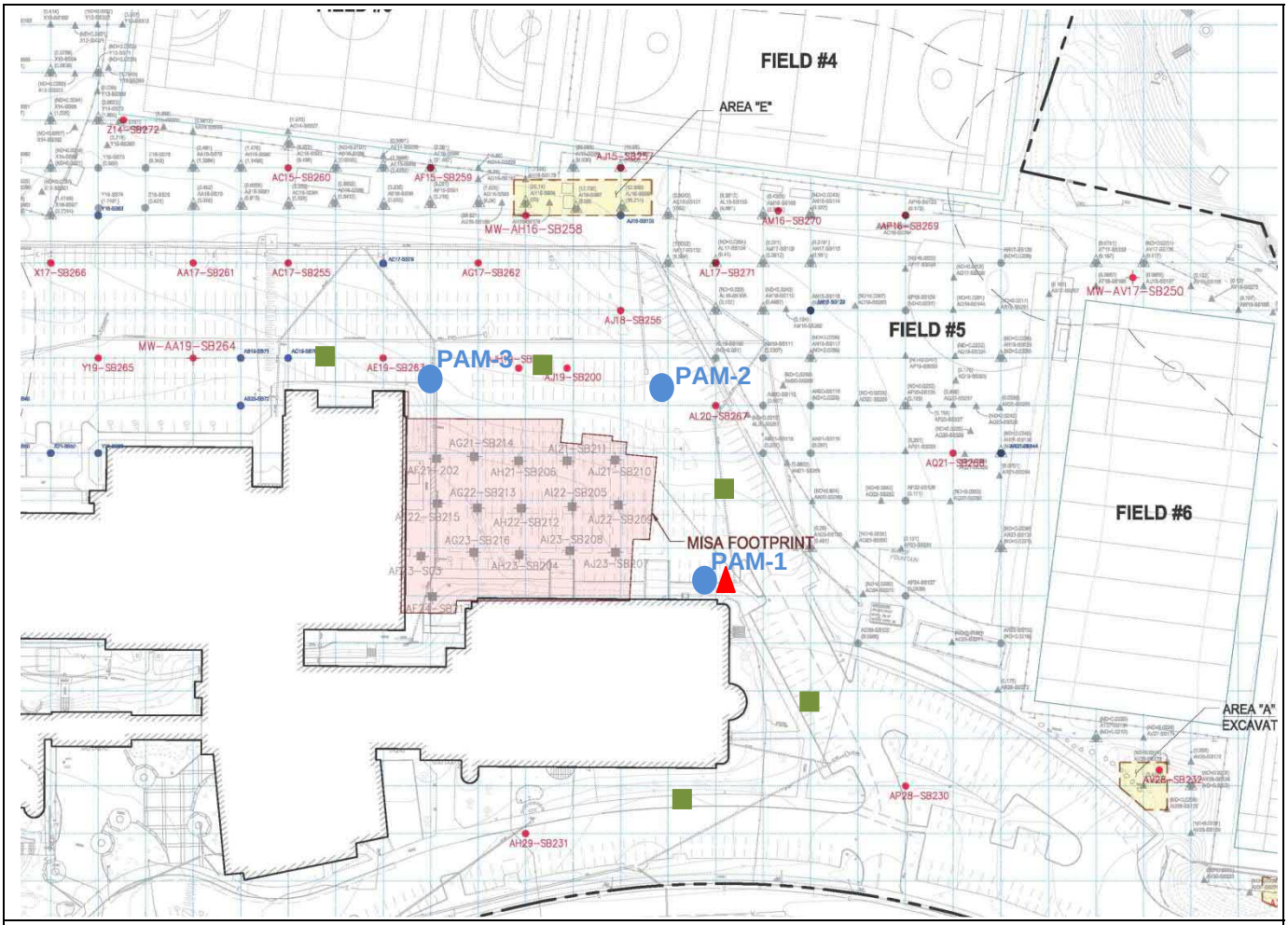


Figure 2: Site Map (9/16/13 – 9/22/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**9/23/13 – 9/29/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted on the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable with one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter from three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no impacted soil activities; therefore, air monitoring was not performed. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 9/23/13	NA[1]	NA[1]	NA[1]	NA[1]
Tue 9/24/13	NA[1]	NA[1]	NA[1]	NA[1]
Wed 9/25/13	NA[1]	NA[1]	NA[1]	NA[1]
Thu 9/26/13	NA[1]	NA[1]	NA[1]	NA[1]
Fri 9/27/13	NA[1]	NA[1]	NA[1]	NA[1]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] There were no impacted soil activities on Site; therefore, air monitoring was not performed.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
NA	NA	NA	NA	NA	NA	NA	NA	Air monitoring not performed.

Definitions:

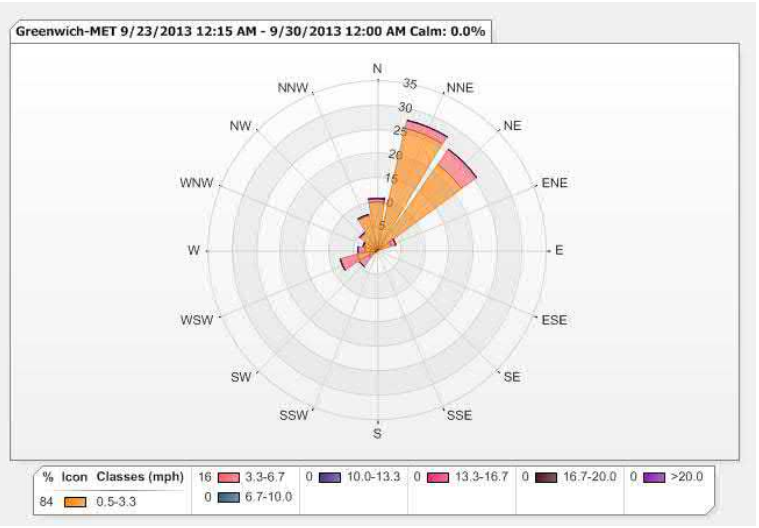
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

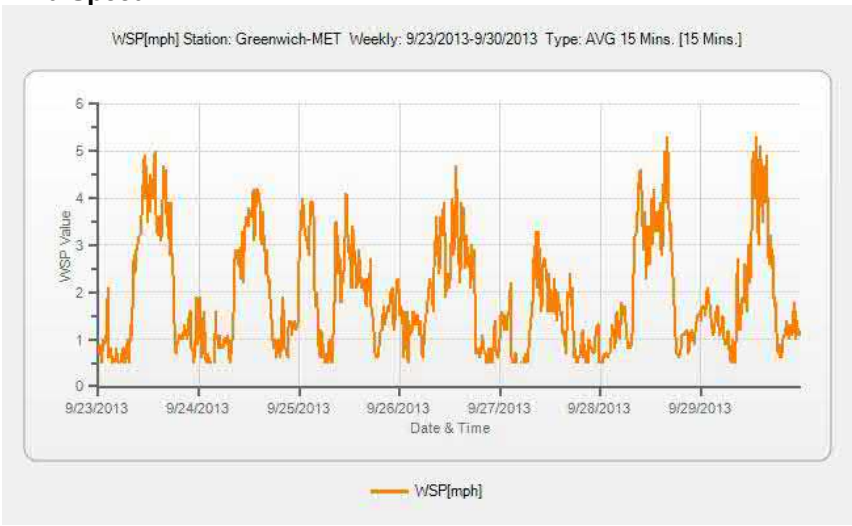
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (9/23/13 – 9/29/13)

Wind Rose:



Wind Speed:



Temperature:

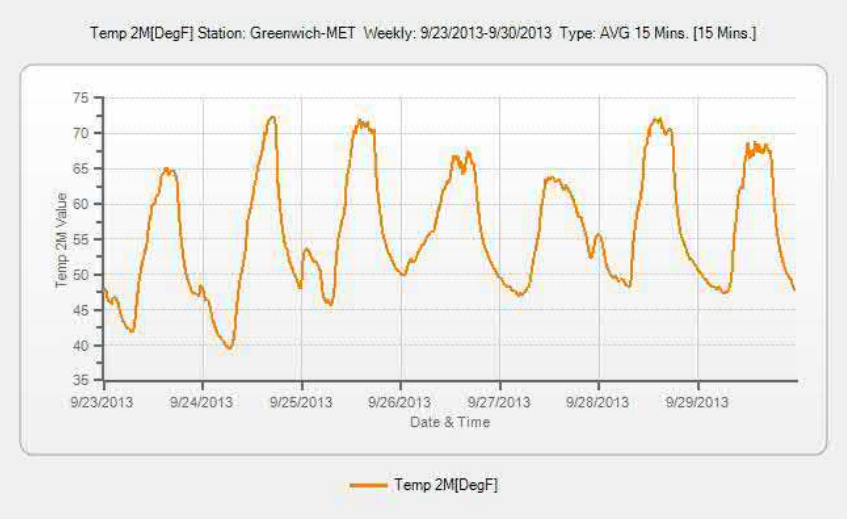
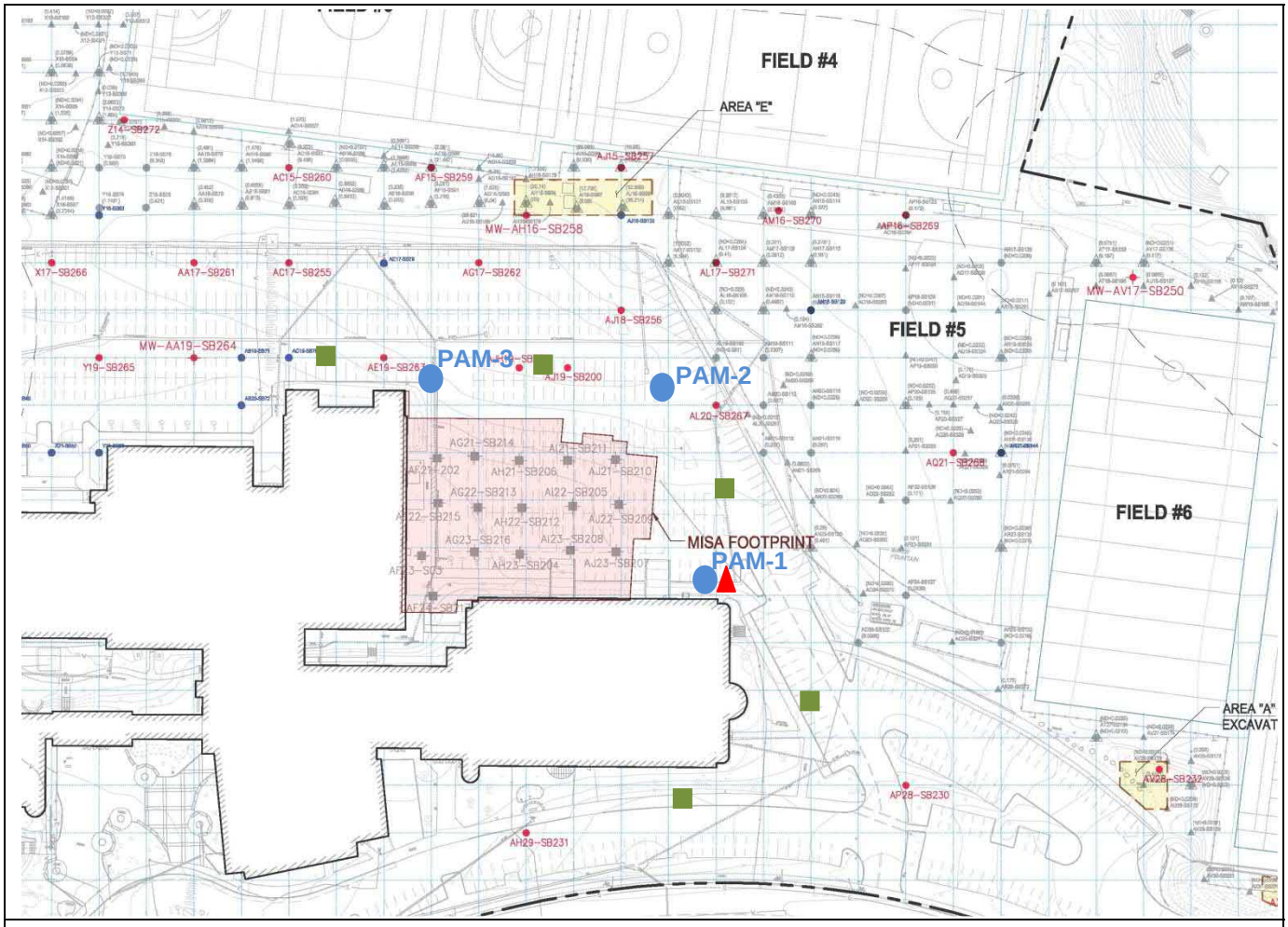


Figure 2: Site Map (9/23/13 – 9/29/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

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978.905.2101 fax

Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**9/30/13 – 10/6/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted on the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable with one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter from three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there was one PM_{10} concentration greater than the Action Level. The elevated PM_{10} concentration was evaluated further in accordance with the PAMP. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 9/30/13	NA[1]	NA[1]	NA[1]	NA[1]
Tue 10/1/13	NA[1]	NA[1]	NA[1]	NA[1]
Wed 10/2/13	NA[1]	NA[1]	NA[1]	NA[1]
Thu 10/3/13	106.0	174.8	91.4	34
Fri 10/4/13	122.1	143.1	119.7	116

Definitions:

PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrograms per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] There was no impacted soil activities; therefore, PAMP monitoring was not performed.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	Thu 10/3/13	2:00PM	PAM-2	SW 4.0 mph	174.8	22.6	152.2	Elevated PM_{10} concentration was caused by excavation activities in the vicinity of PAM-2. Concentrations quickly dropped below the Action Level; therefore, no response was required.

Definitions:

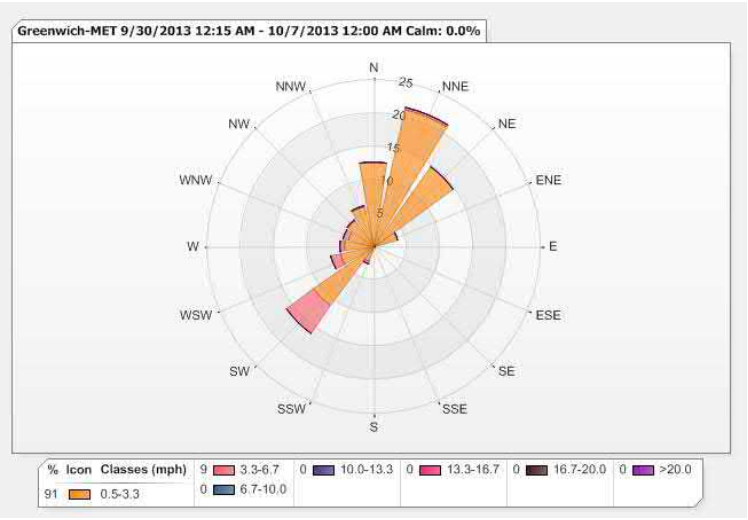
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

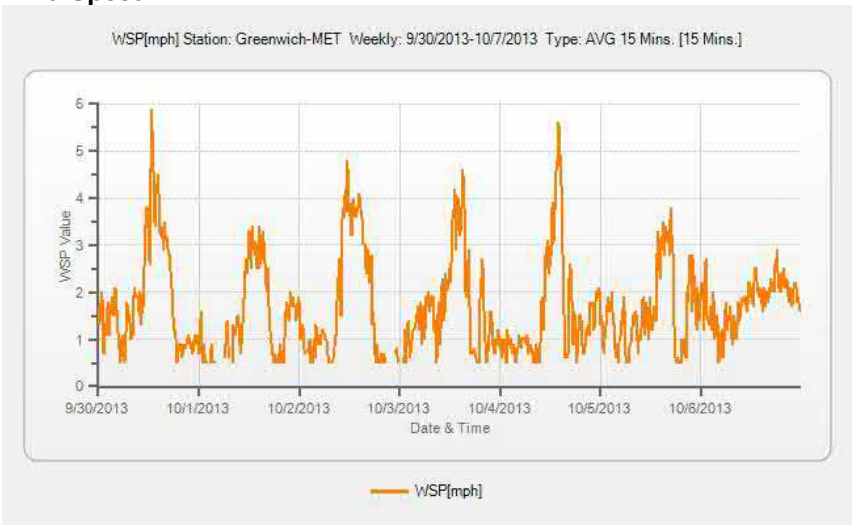
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (9/30/13 – 10/6/13)

Wind Rose:



Wind Speed:



Temperature:

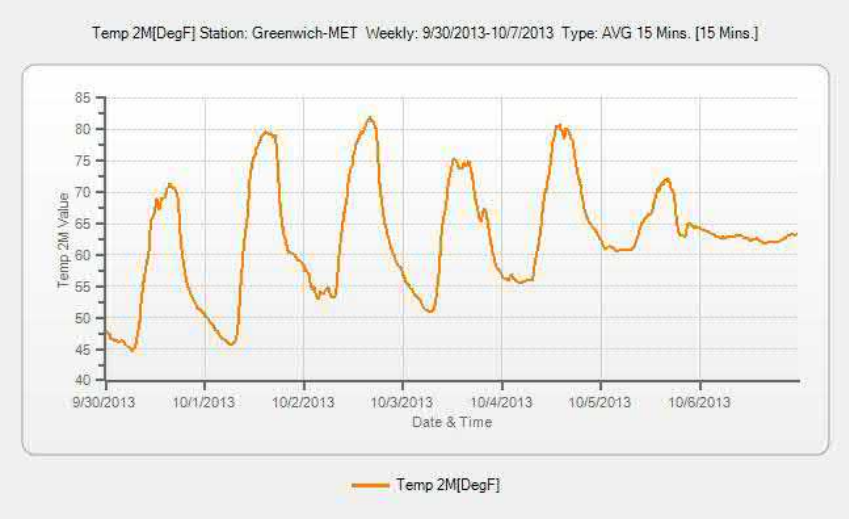
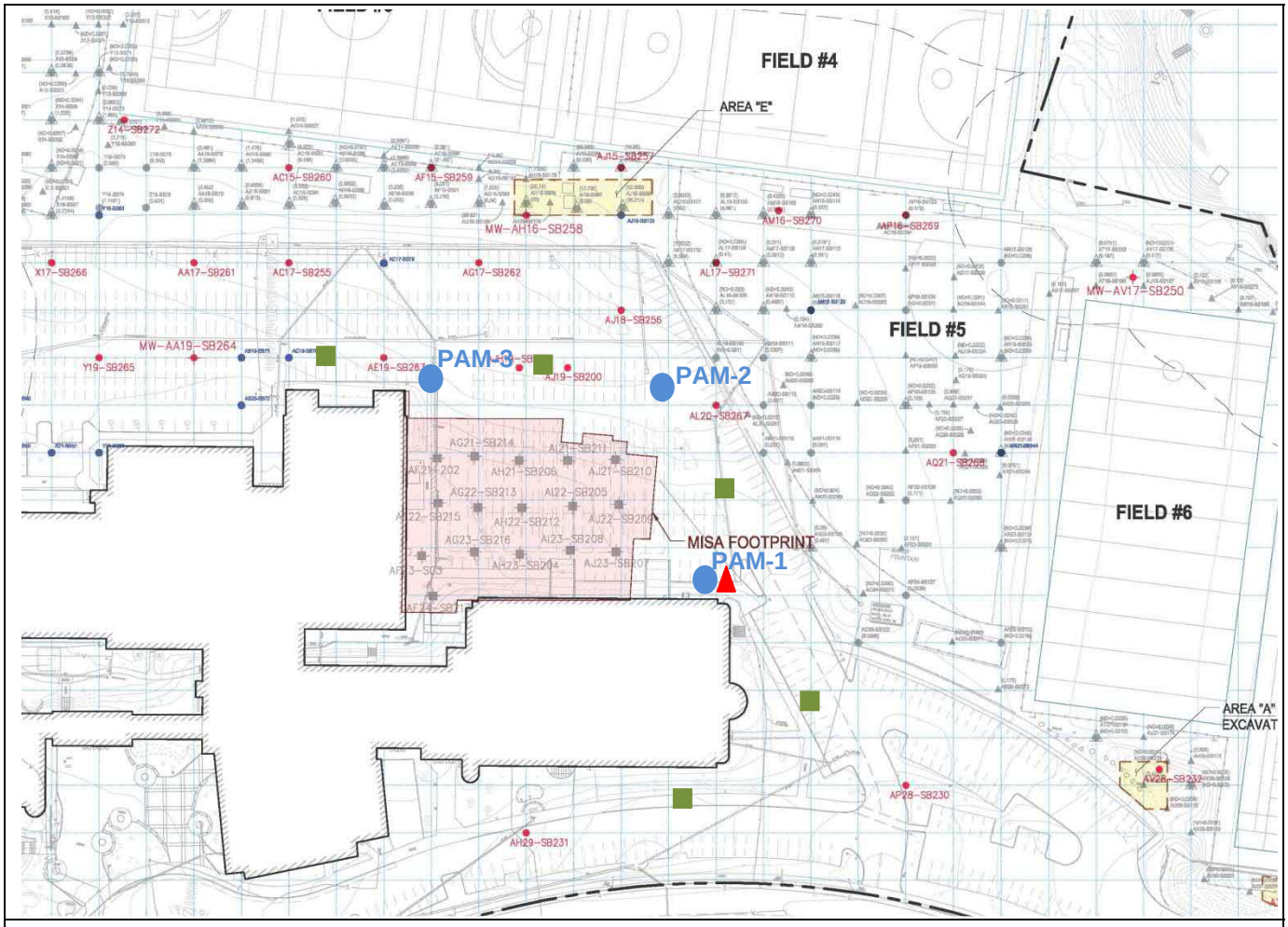


Figure 2: Site Map (9/30/13 – 10/4/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**10/7/13 – 10/13/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted on the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable with one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter from three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentration greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 10/7/13	49.7	61.2	81.5	47
Tue 10/8/13	41.4	39.2	44.5	23
Wed 10/9/13	41.4	42.7	18.1	20
Thu 10/10/13	21.3	24.7	128.7	32
Fri 10/11/13	21.0	15.2	22.1	50

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	PM_{10} concentrations remained below the Action Level.

Definitions:

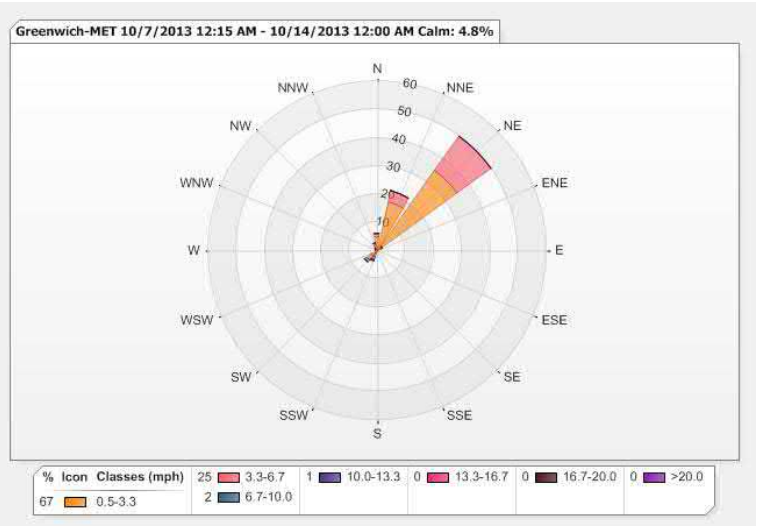
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

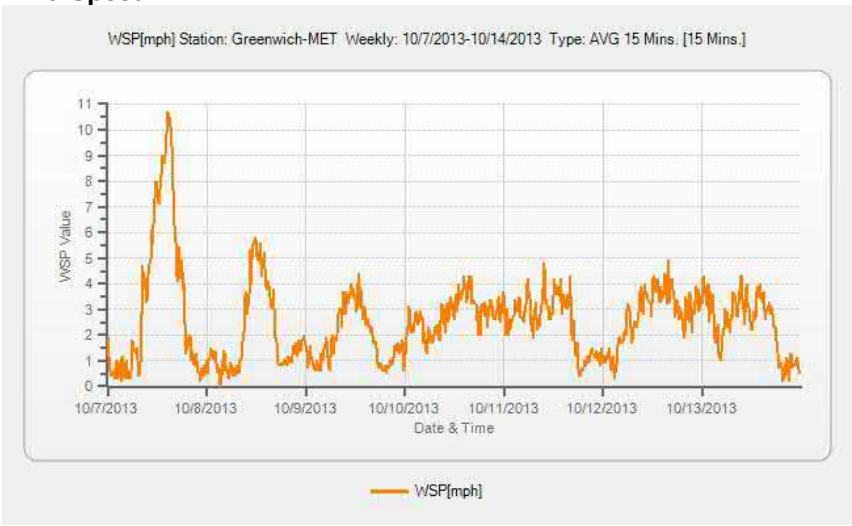
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (10/7/13 – 10/13/13)

Wind Rose:



Wind Speed:



Temperature:

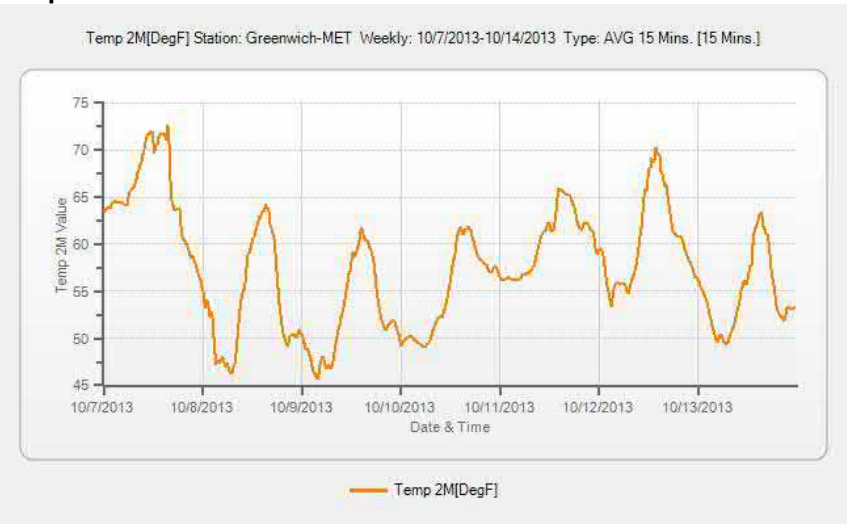
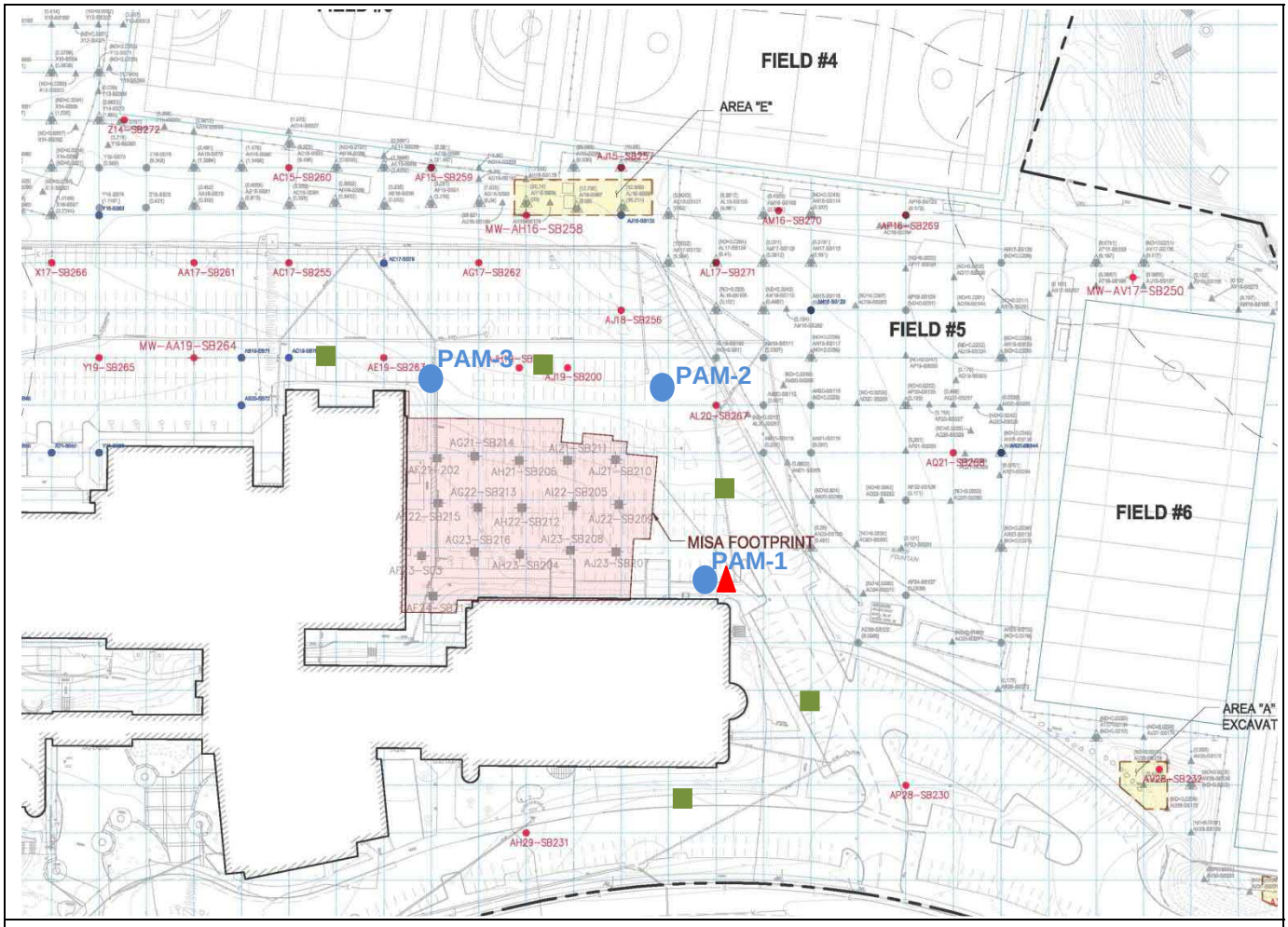


Figure 2: Site Map (10/7/13 – 10/13/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**10/14/13 – 10/20/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted on the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable with one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter from three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentration greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 10/14/13	128.2	71.8	33.7	42
Tue 10/15/13	99.8	85.4	53.6	48
Wed 10/16/13	45.9	46.7	129.6	18
Thu 10/17/13	89.1	67.7	67.0	65
Fri 10/18/13	24.3	45.2	31.9	30

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	PM_{10} concentrations remained below the Action Level.

Definitions:

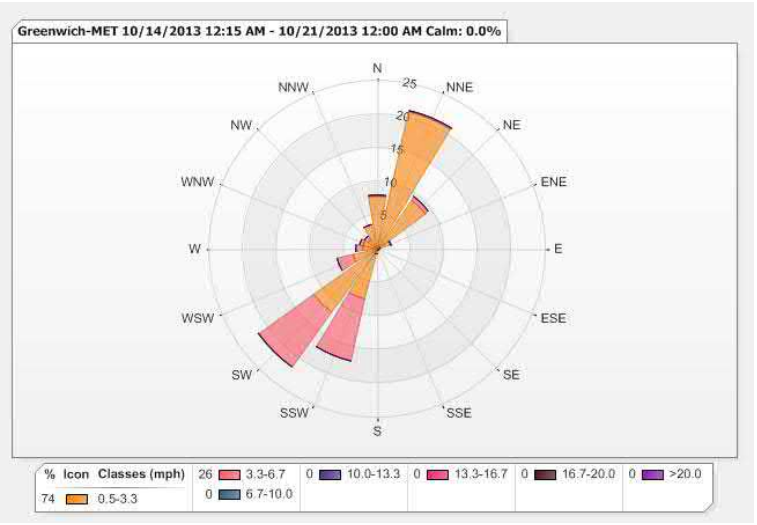
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

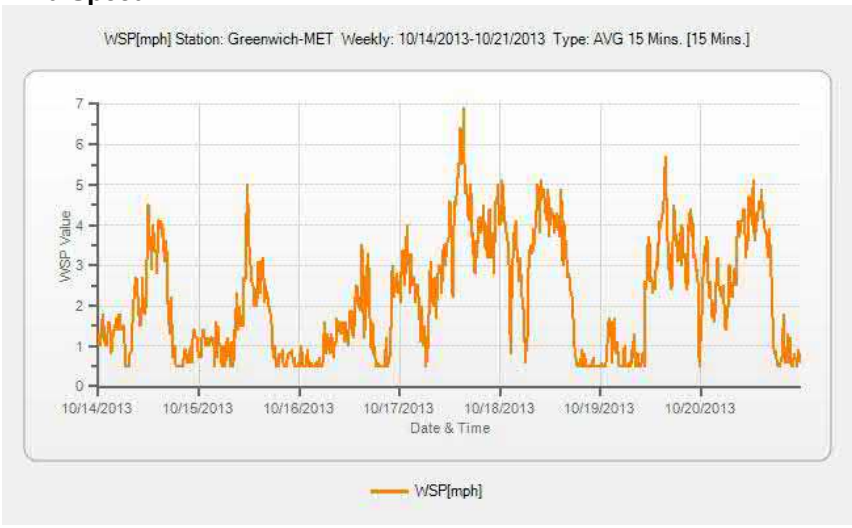
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (10/14/13 – 10/20/13)

Wind Rose:



Wind Speed:



Temperature:

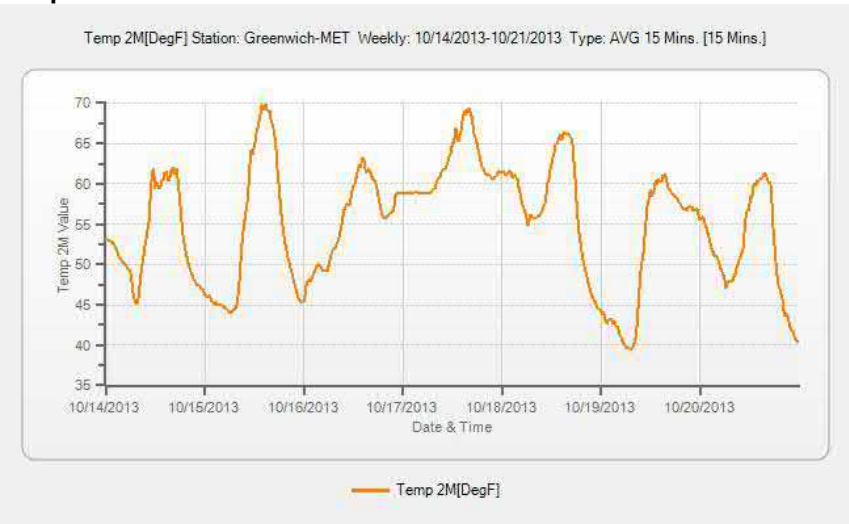
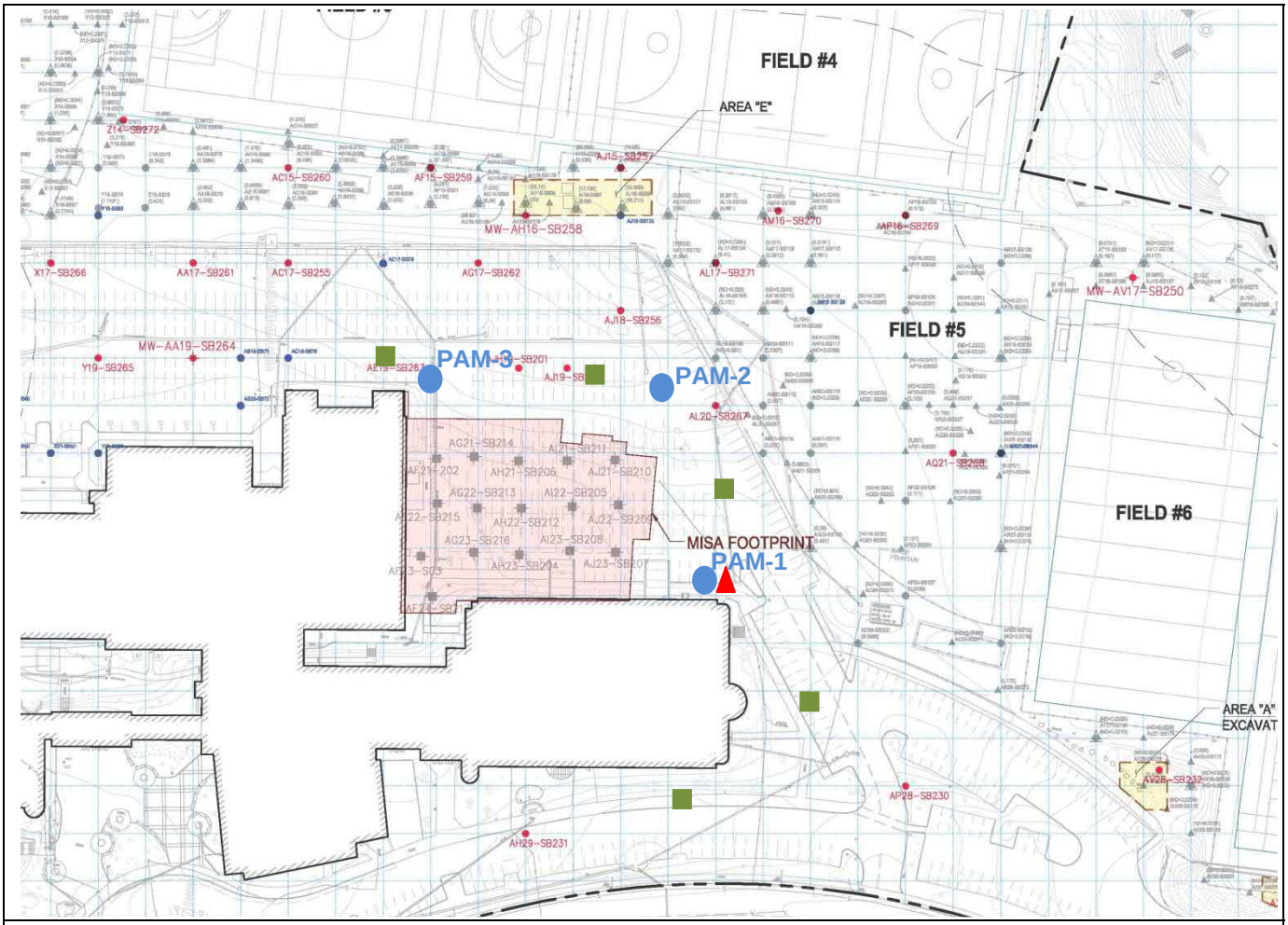


Figure 2: Site Map (10/14/13 – 10/20/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**10/21/13 – 10/27/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted on the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable with one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter from three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentration greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 10/21/13	61.3	58.0	61.9	72
Tue 10/22/13	57.4	57.3	63.8	34
Wed 10/23/13	47.2	63.8	38.2	16
Thu 10/24/13	46.5	58.7	52.0	41
Fri 10/25/13	24.5	50.6	85.5	35

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	PM_{10} concentrations remained below the Action Level.

Definitions:

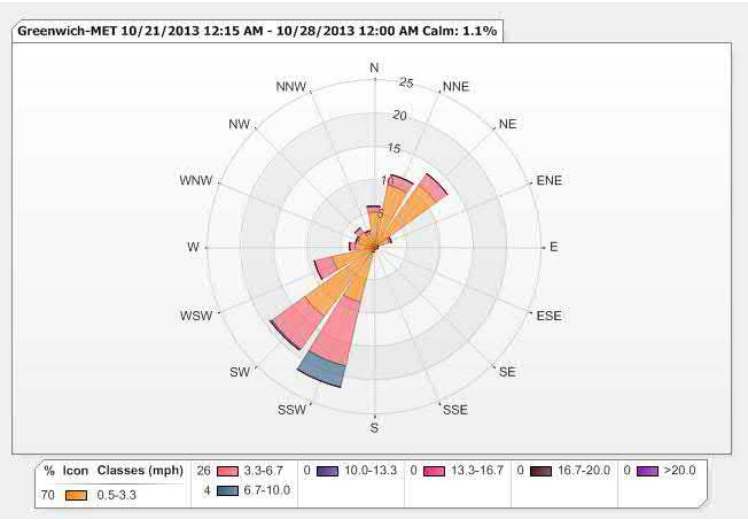
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

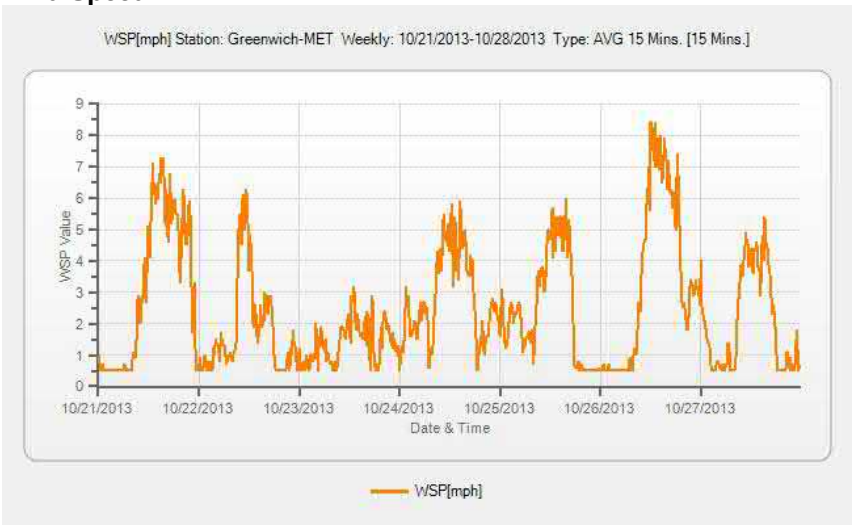
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (10/21/13 – 10/27/13)

Wind Rose:



Wind Speed:



Temperature:

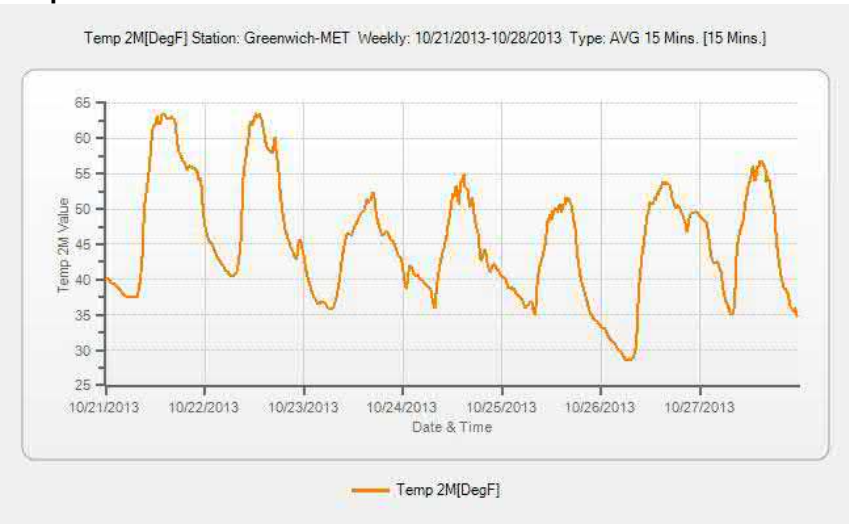
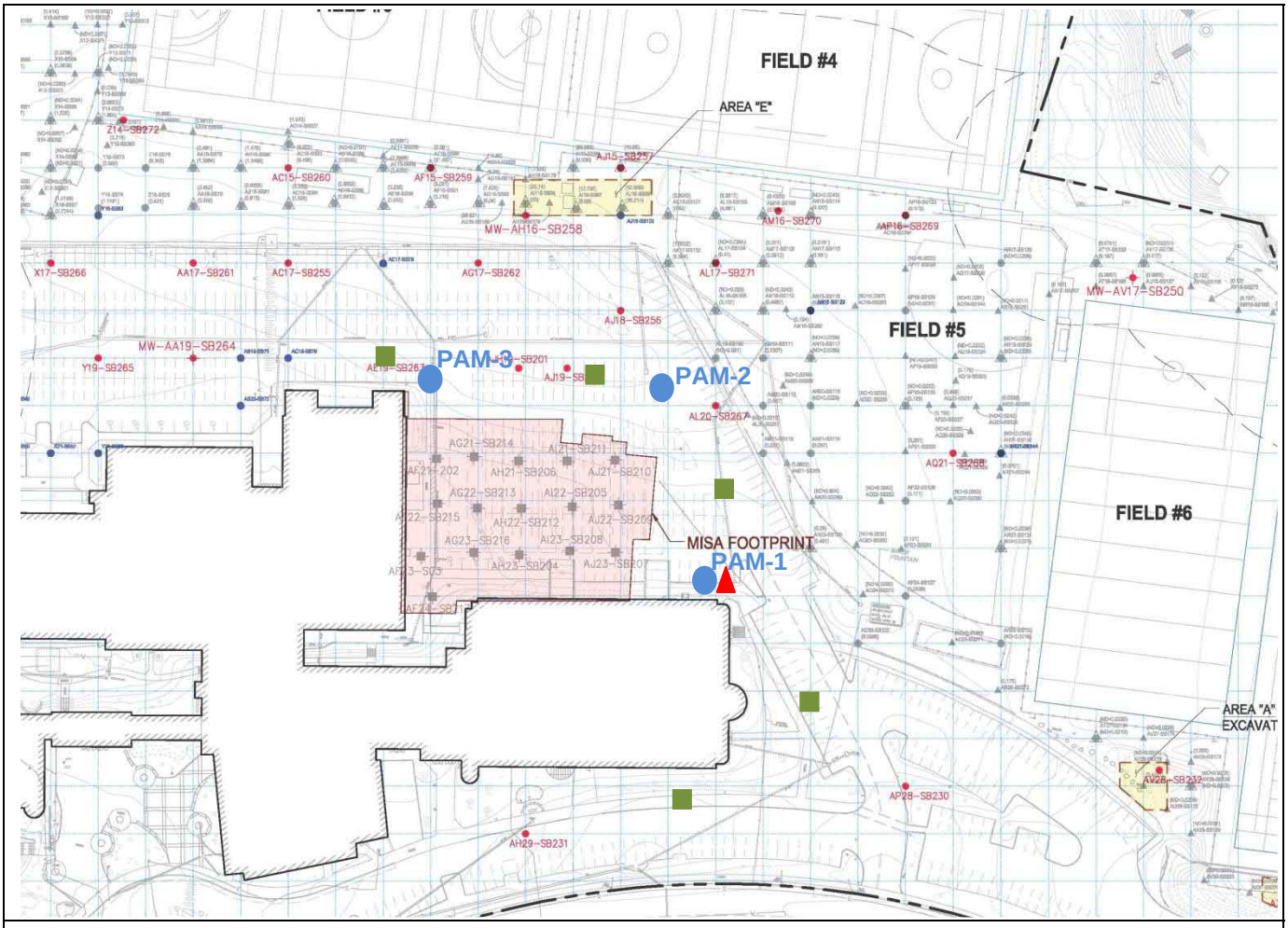


Figure 2: Site Map (10/21/13 – 10/27/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**10/28/13 – 11/3/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted on the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable with one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter from three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentration greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 10/28/13	42.6	59.0	39.9	26
Tue 10/29/13	37.9	28.4	50.8	13
Wed 10/30/13	79.7	49.3	37.5	44
Thu 10/31/13	82.7	92.5	85.3	64
Fri 11/1/13	41.8	50.9	31.5	13

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	PM_{10} concentrations remained below the Action Level.

Definitions:

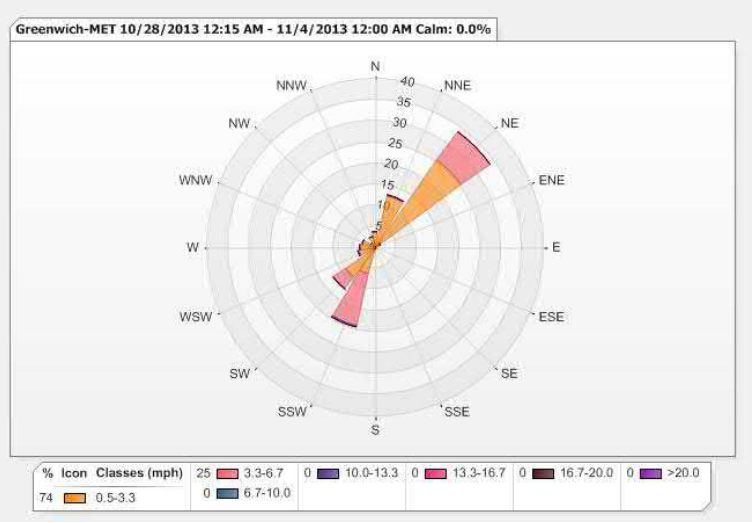
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

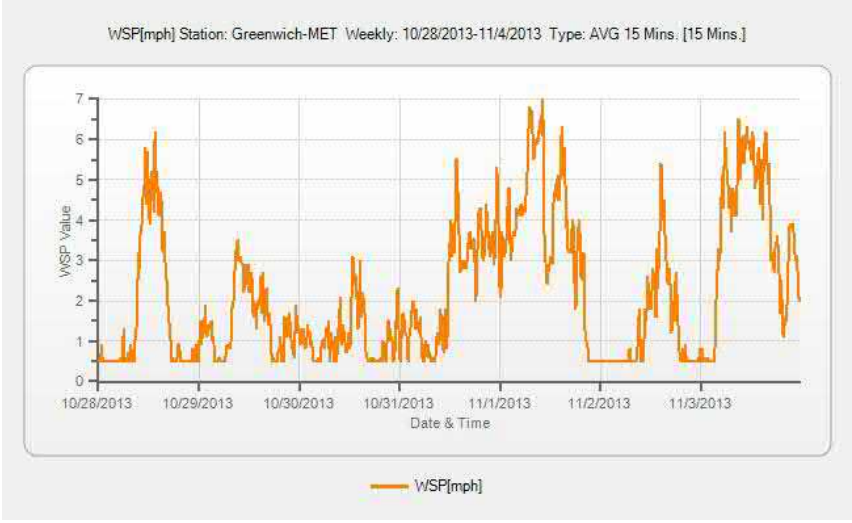
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (10/28/13 – 11/3/13)

Wind Rose:



Wind Speed:



Temperature:

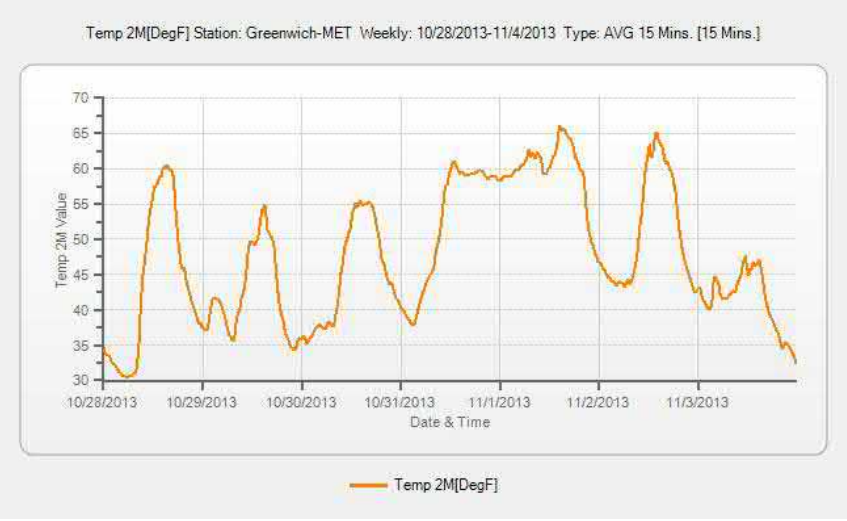
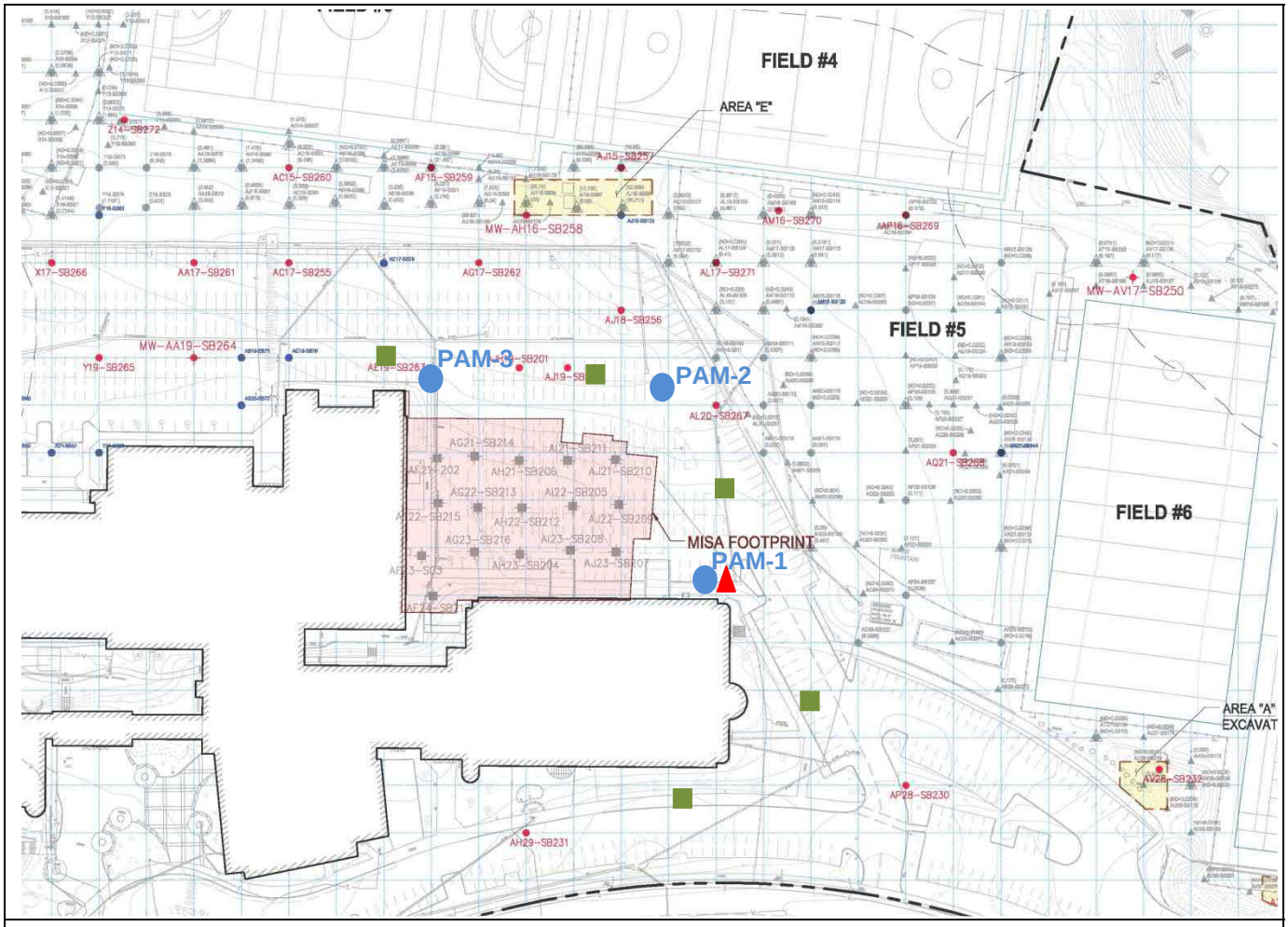


Figure 2: Site Map (10/28/13 – 11/1/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**11/4/13 – 11/10/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted on the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable with one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter from three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentration greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 11/4/13	59.6	34.9	32.3	14
Tue 11/5/13	ND[1]	31.5	21.7	11
Wed 11/6/13	36.5	52.3	43.0	16
Thu 11/7/13	53.6	27.8	29.5	29
Fri 11/8/13	30.3	27.5	28.1	16

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] PM_{10} concentrations invalid because of an instrument malfunction.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	PM_{10} concentrations remained below the Action Level.

Definitions:

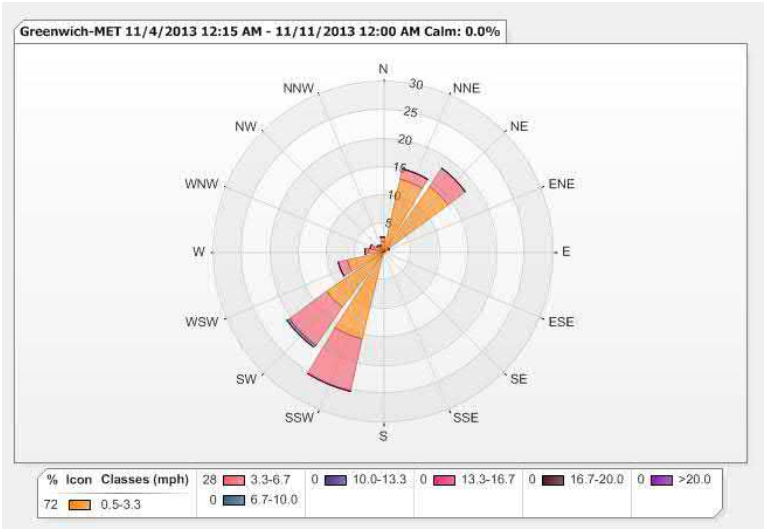
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

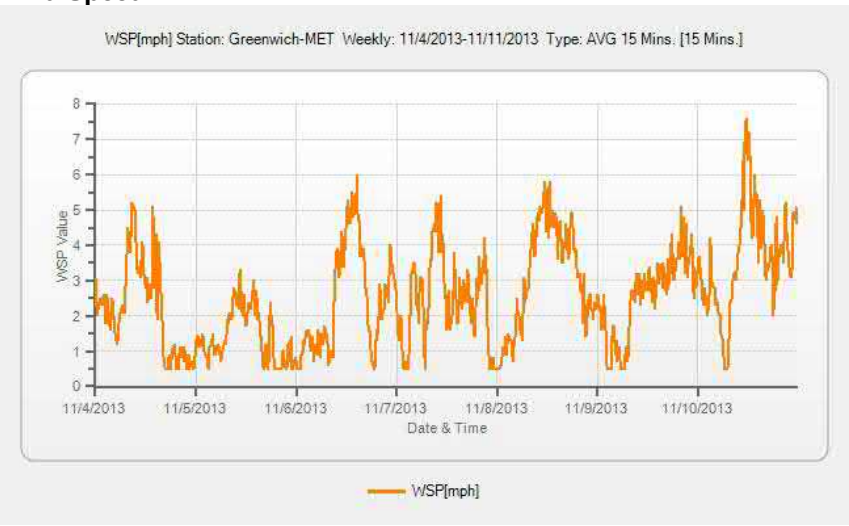
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (11/4/13 – 11/10/13)

Wind Rose:



Wind Speed:



Temperature:

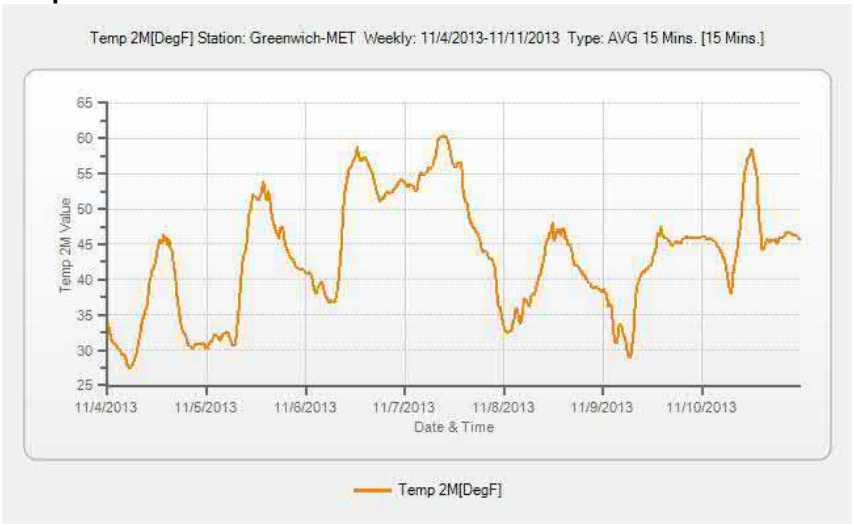
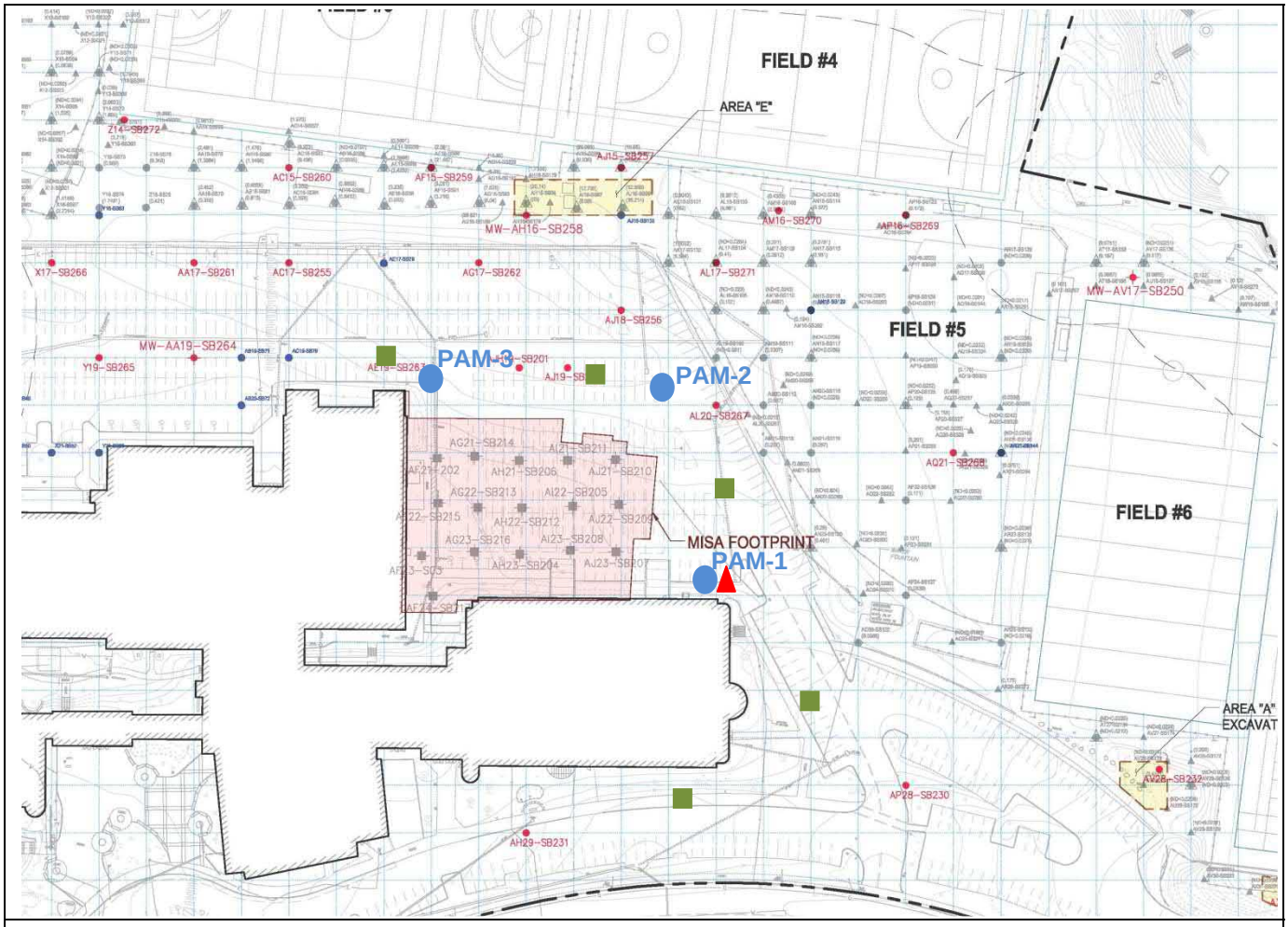


Figure 2: Site Map (11/4/13 – 11/10/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**11/11/13 – 11/17/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted on the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable with one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter from three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentration greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 11/11/13	15.4	26.1	17.7	40
Tue 11/1213	9.5	48.7	12.0	11
Wed 11/13/13	14.1	94.2	29.2	34
Thu 11/14/13	47.8	42.6	49.4	31
Fri 11/15/13	38.7	77.0	76.3	89

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	PM_{10} concentrations remained below the Action Level.

Definitions:

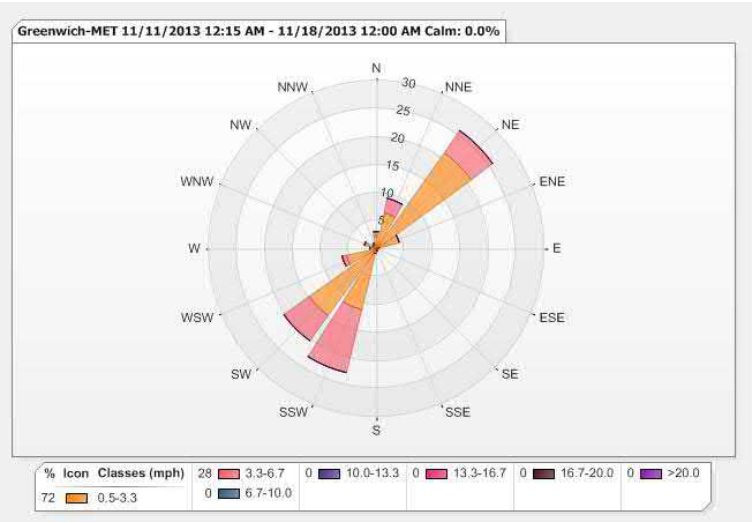
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

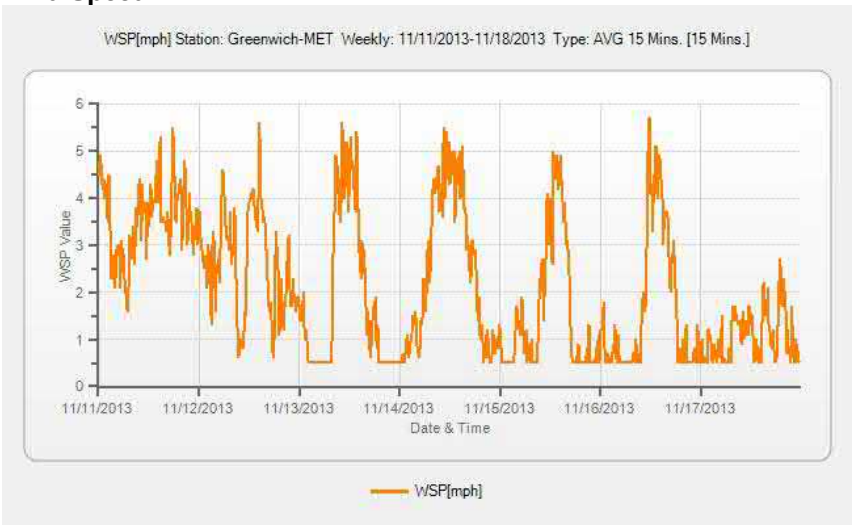
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (11/11/13 – 11/17/13)

Wind Rose:



Wind Speed:



Temperature:

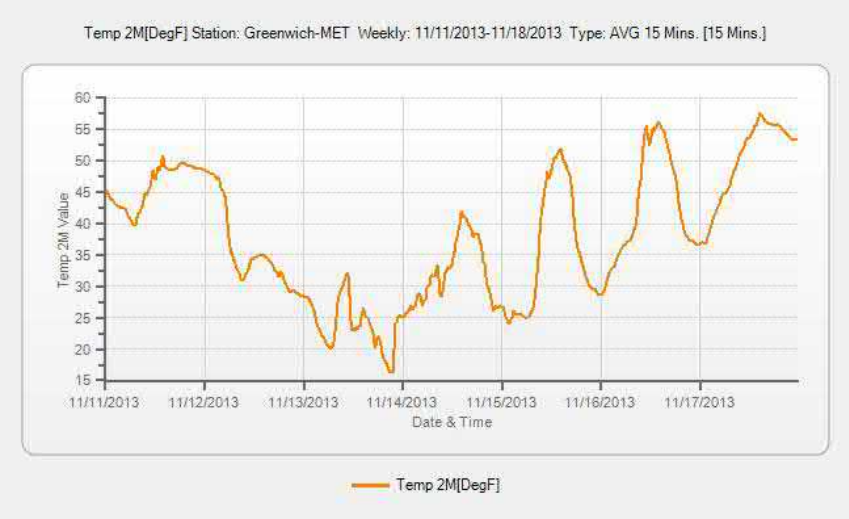
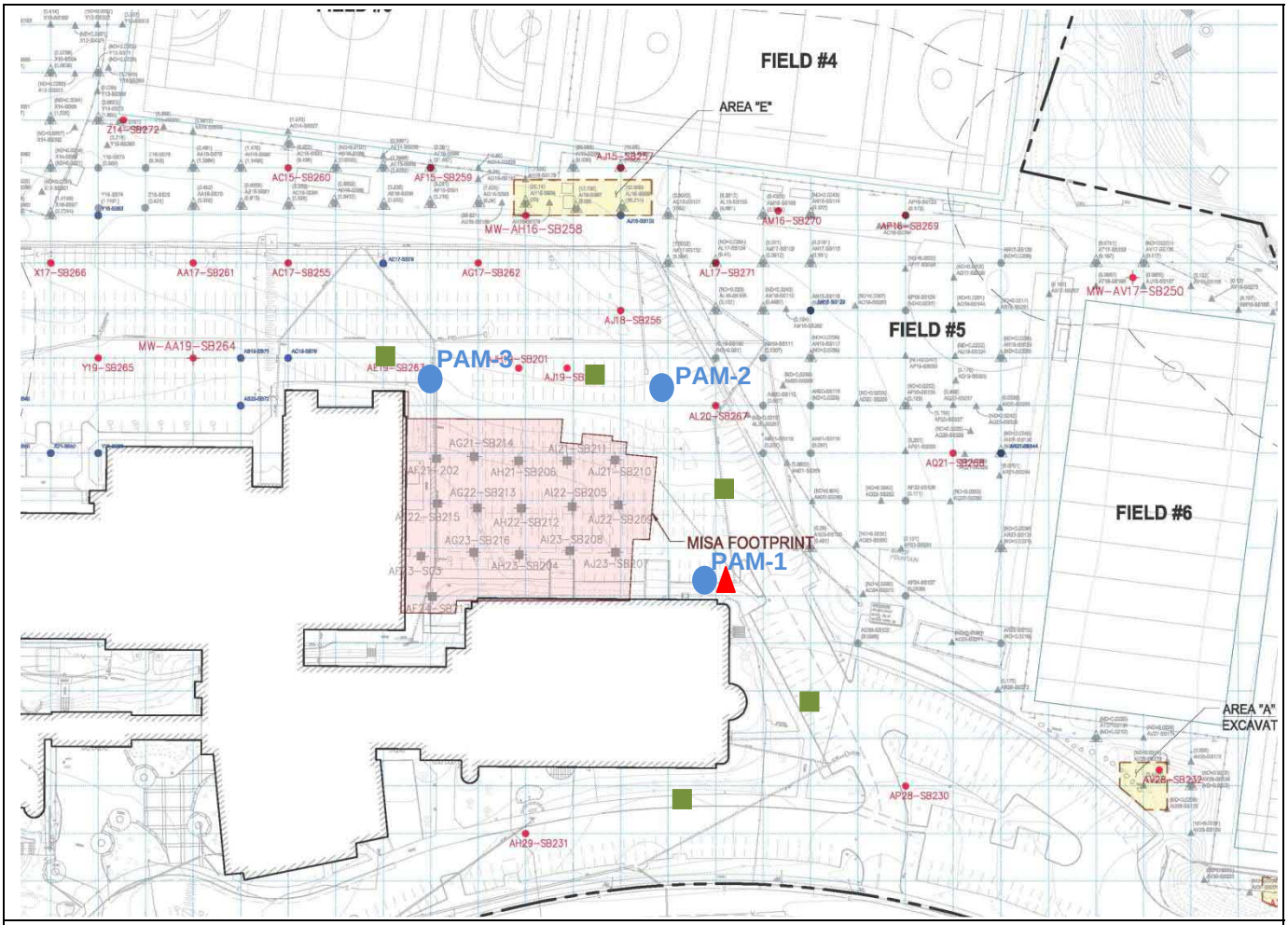


Figure 2: Site Map (11/11/13 – 11/17/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**11/18/13 – 11/24/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted on the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable with one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter from three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were two 15-minute average PM_{10} concentrations greater than the Action Level. These concentrations were determined to be less than the Action Level after accounting for background concentrations (see **Table 3**). The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 11/18/13	62.6	12.4	16.6	20
Tue 11/19/13	21.6	29.5	40.7	27
Wed 11/20/13	65.0	17.3	35.0	ND[1]
Thu 11/21/13	18.0	42.5	158.2	38
Fri 11/22/13	49.8	51.1	47.4	47

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring not performed.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	Thu 11/22/13	2:45PM 3:00PM	PAM-3	NNE 2.1 mph NNE 1.5 mph	153.4 158.2	18.0 14.8	135.4 143.4	Elevated PM_{10} concentrations were caused by general Site activities. After accounting for background concentrations the elevated concentrations were reduced below the Action Level.

Definitions:

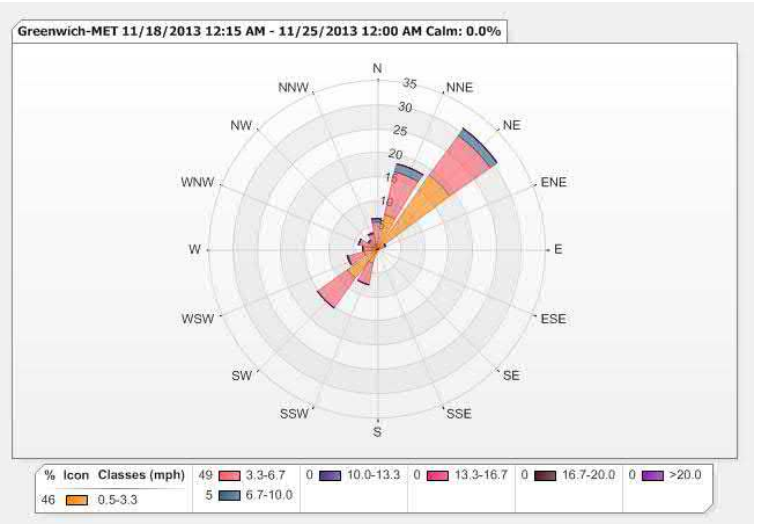
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

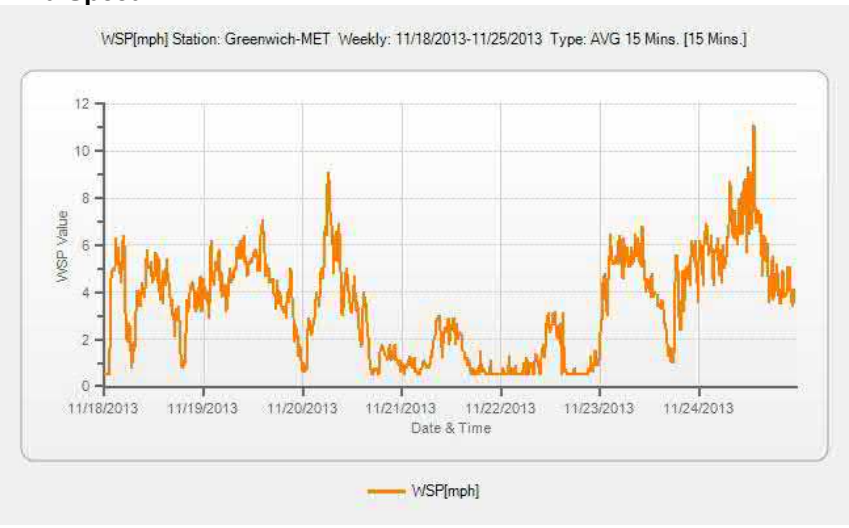
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (11/18/13 – 11/24/13)

Wind Rose:



Wind Speed:



Temperature:

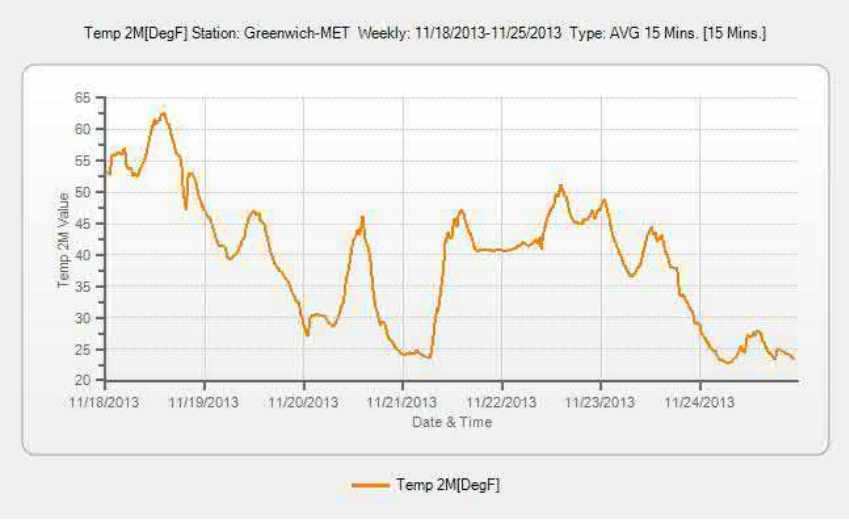
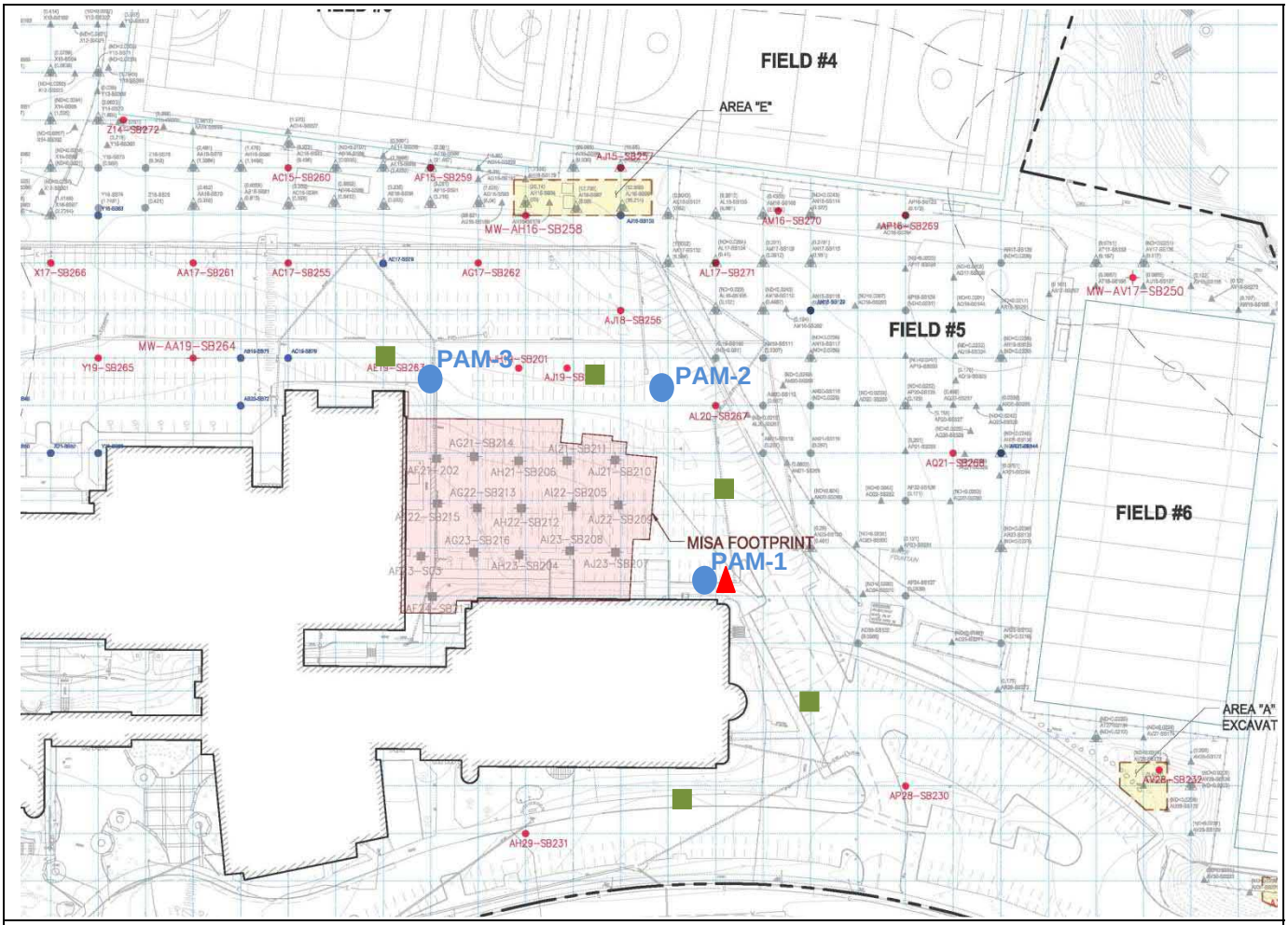


Figure 2: Site Map (11/18/13 – 11/24/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**11/25/13 – 12/1/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring, and meteorological monitoring was conducted on the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentration greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 11/25/13	54.5	15.7	26.1	ND[1]
Tue 11/26/13	30.4	35.0	28.7	ND[1]
Wed 11/27/13	8.9	33.5	45.4	ND[1]
Thu 11/28/13	NA[2]	NA[2]	NA[2]	NA[2]
Fri 11/29/13	NA[2]	NA[2]	NA[2]	NA[2]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring not performed.

[2] Site closed for Thanksgiving Holiday (no Site activities).

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	Concentrations remained below the Action Level.

Definitions:

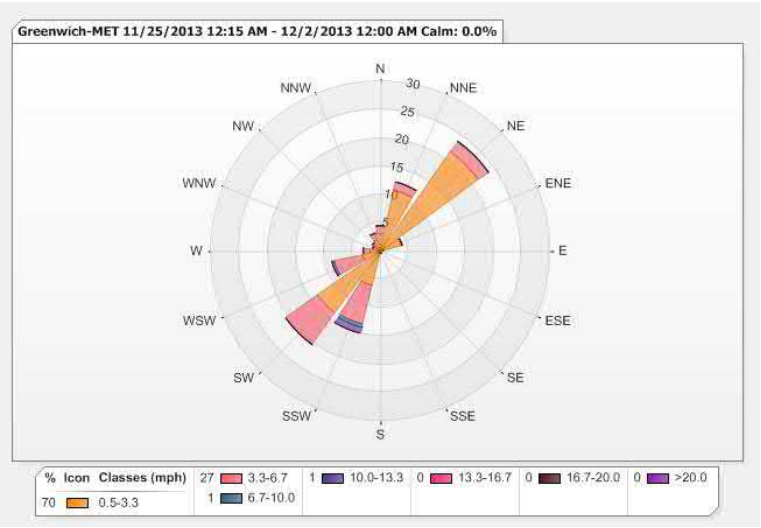
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

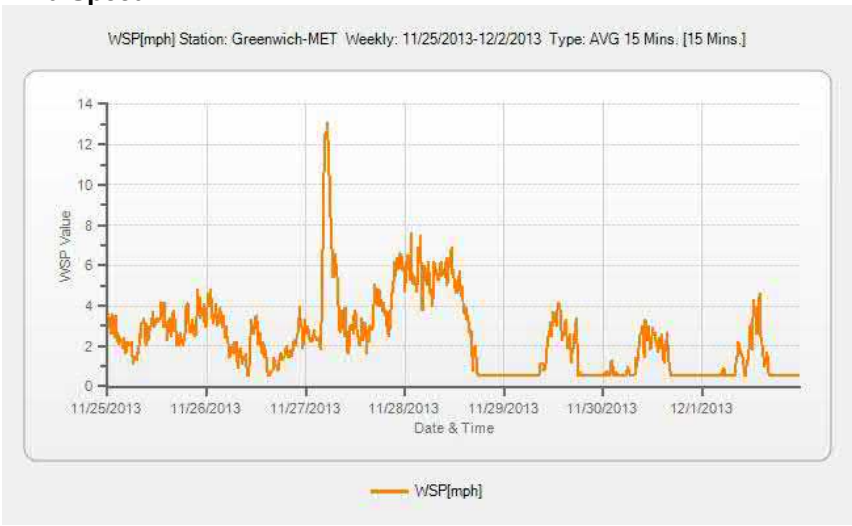
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (11/25/13 – 12/1/13)

Wind Rose:



Wind Speed:



Temperature:

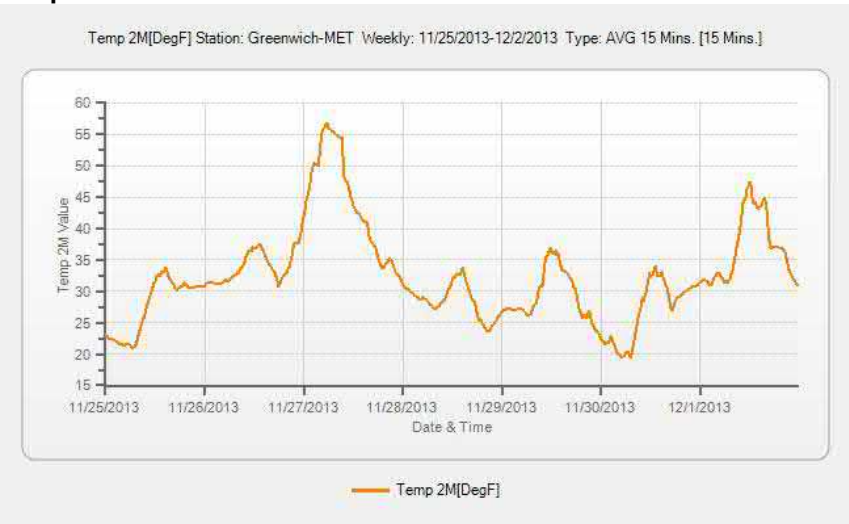
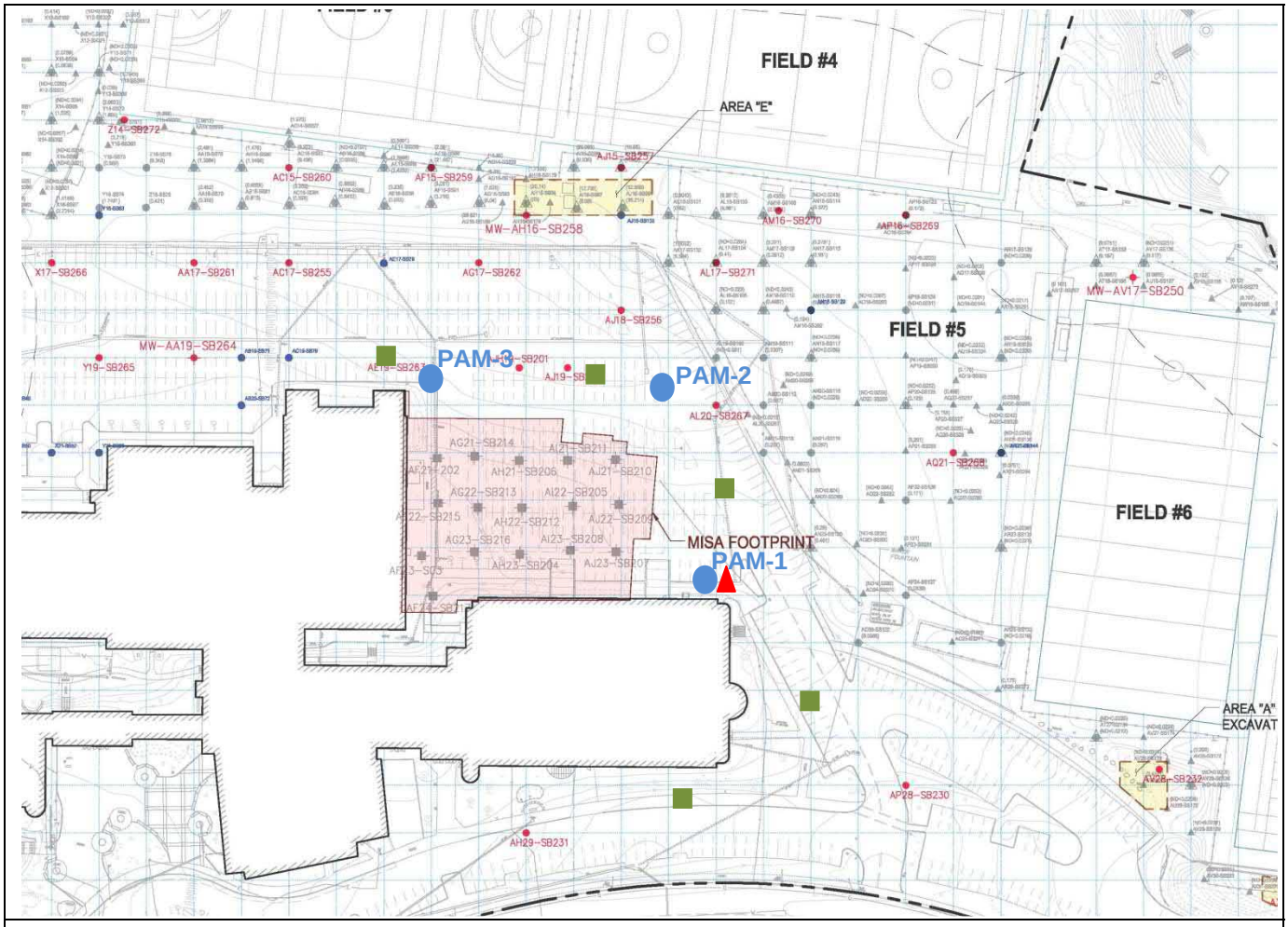


Figure 2: Site Map (11/25/13 – 12/1/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**12/2/13 – 12/8/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted on the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were several 15-minute average PM_{10} concentrations greater than the Action Level. These concentrations were determined to be less than the Action Level after accounting for background concentrations (see **Table 3**). The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 12/2/13	51.7	105.3	78.6	ND[1]
Tue 12/3/13	193.7	97.1	72.8	ND[1]
Wed 12/4/13	70.6	131.4	76.7	ND[1]
Thu 12/5/13	145.5	168.4	155.7	ND[1]
Fri 12/6/13	45.9	13.3	66.8	ND[1]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring not performed.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	Tue 12/3/13	9:30AM 9:45AM	PAM-1	Light & Variable	193.7 179.5	64.4 71.0	129.3 108.5	Elevated PM_{10} concentrations were caused by regional weather conditions (high relative humidity).
PM_{10}	Thu 12/5/13	8:15AM 8:30AM 8:45AM 9:30AM 9:45AM 10:15AM 10:30AM 11:30AM 11:45AM 12:00PM 12:15PM	PAM-2	Light & Variable	168.4 155.4 150.5 150.2 151.3 150.7 150.7 158.0 152.3 155.9 164.4	130.7 122.1 118.1 116.2 113.8 118.2 120.9 130.5 125.1 122.5 141.9	37.7 33.3 32.4 34.0 37.5 32.5 29.8 27.5 27.2 33.4 22.4	Elevated PM_{10} concentrations were caused by regional weather conditions (high relative humidity).
PM_{10}	Thu 12/5/13	8:15AM 12:00PM	PAM-3	Light & Variable	155.7 150.8	130.7 122.5	25.0 28.3	Elevated PM_{10} concentrations were caused by regional weather conditions (high relative humidity).

Definitions:

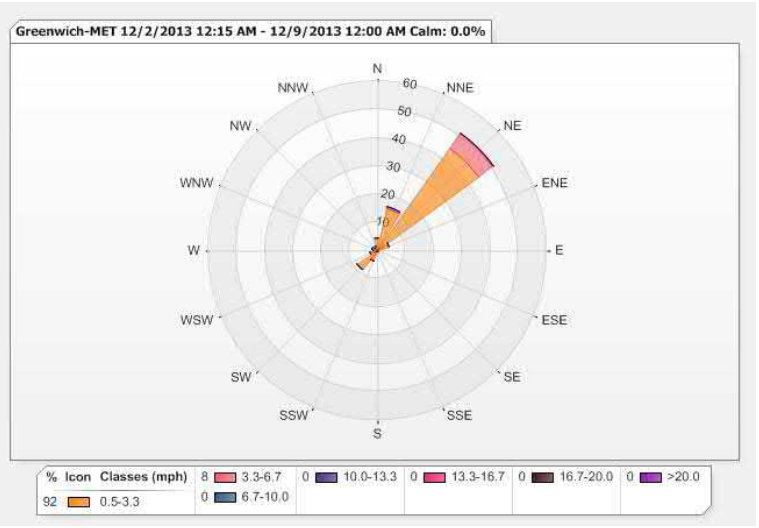
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

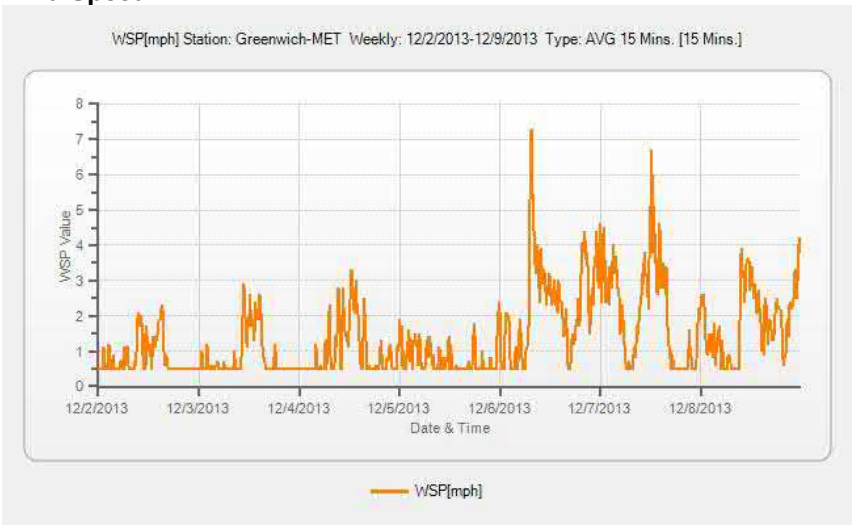
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (12/2/13 – 12/8/13)

Wind Rose:



Wind Speed:



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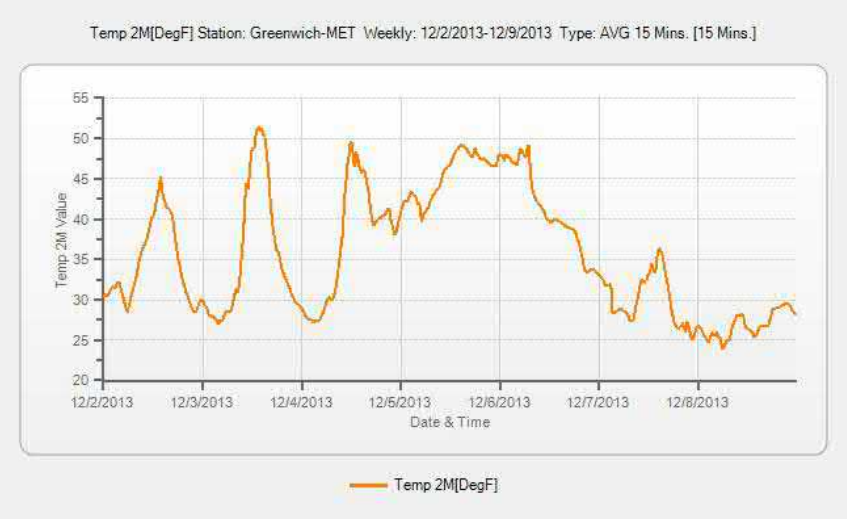
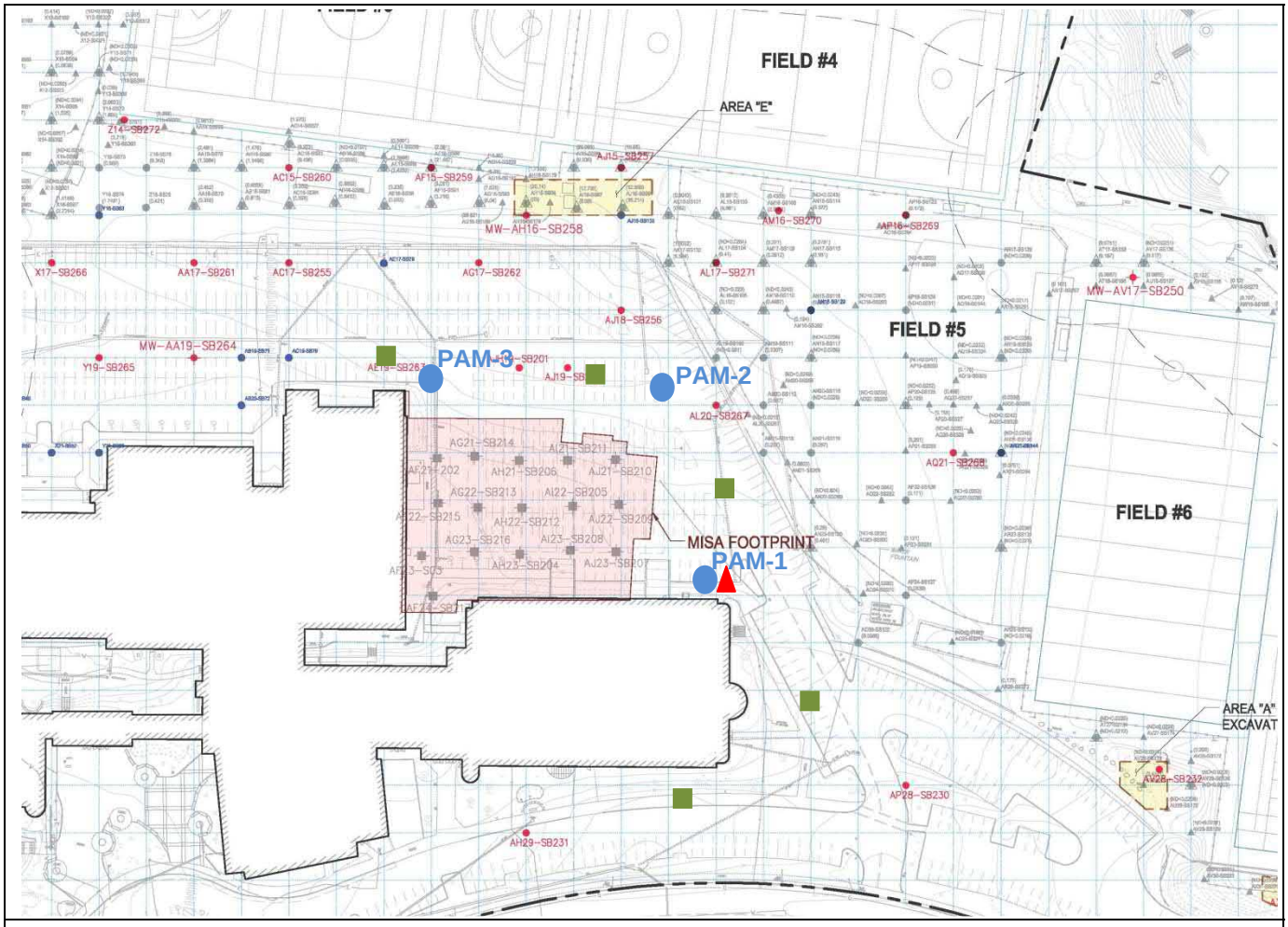


Figure 2: Site Map (12/2/13 – 12/8/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**12/9/13 – 12/15/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted on the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentrations greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 12/9/13	23.7	29.5	33.1	ND[1]
Tue 12/10/13	53.1	58.2	52.7	ND[1]
Wed 12/11/13	37.4	33.4	60.9	ND[1]
Thu 12/12/13	37.8	34.0	45.3	ND[1]
Fri 12/13/13	85.2	28.0	46.7	ND[1]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	PM_{10} concentrations remained below the Action Level.

Definitions:

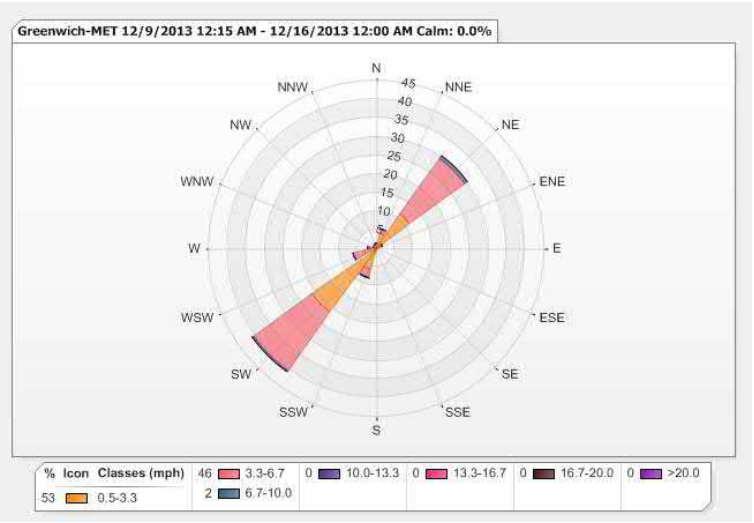
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

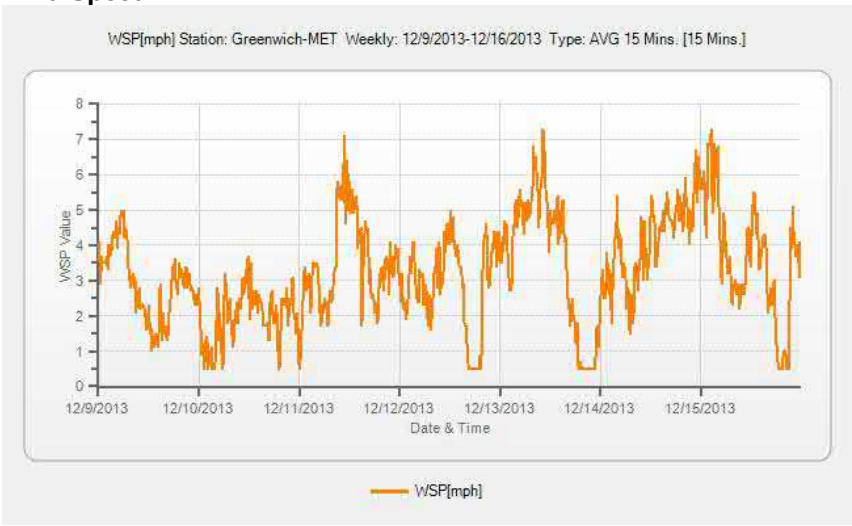
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (12/9/13 – 12/15/13)

Wind Rose:



Wind Speed:



Temperature:

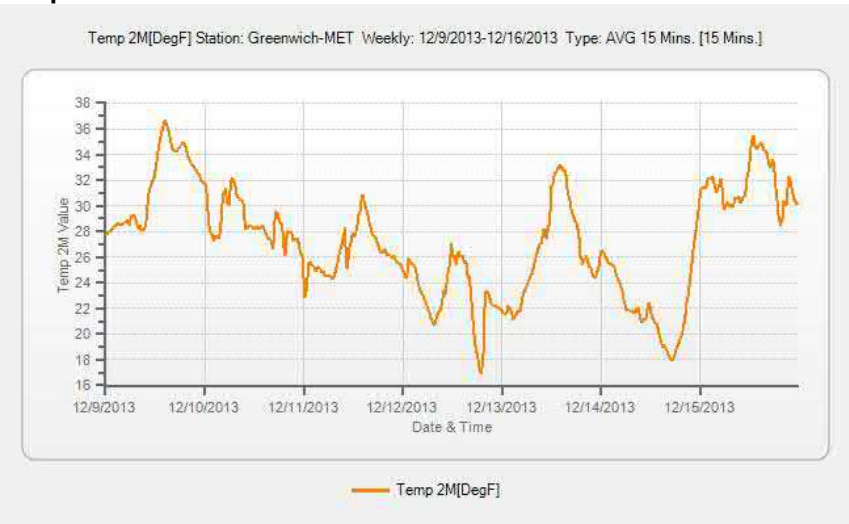
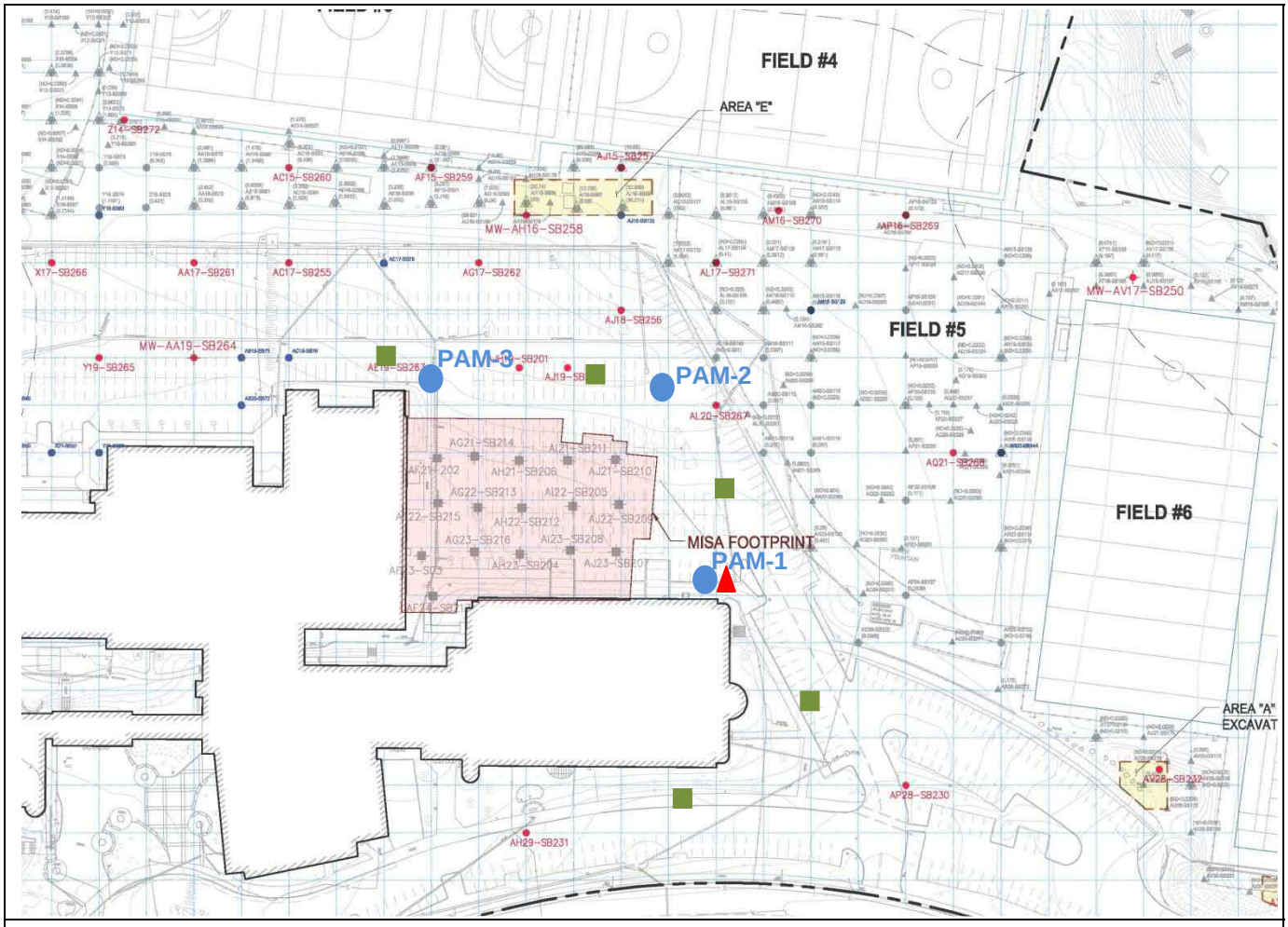


Figure 2: Site Map (12/9/13 – 12/15/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**12/16/13 – 12/22/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentrations greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 12/16/13	17.8	20.2	17.6	ND[1]
Tue 12/17/13	45.6	38.3	48.8	ND[1]
Wed 12/18/13	35.9	35.7	53.0	ND[1]
Thu 12/19/13	64.8	78.7	104.3	ND[1]
Fri 12/20/13	42.9	57.9	52.7	ND[1]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	PM_{10} concentrations remained below the Action Level.

Definitions:

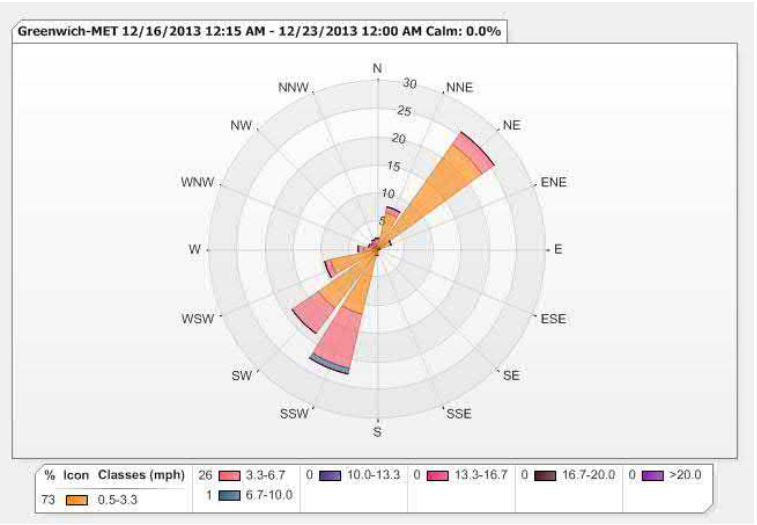
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

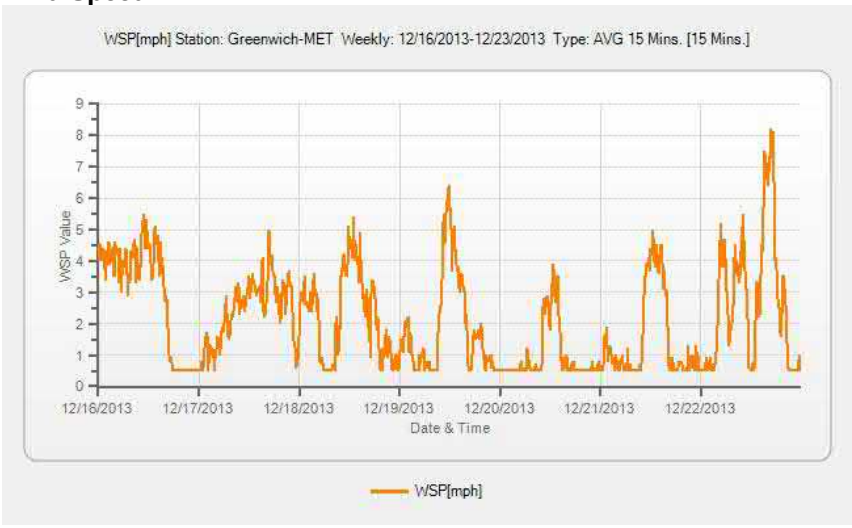
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (12/16/13 – 12/22/13)

Wind Rose:



Wind Speed:



Temperature:

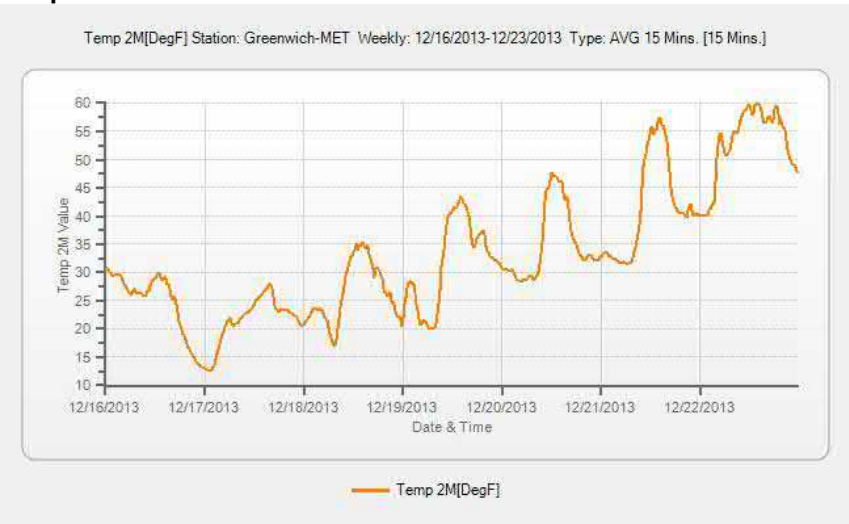
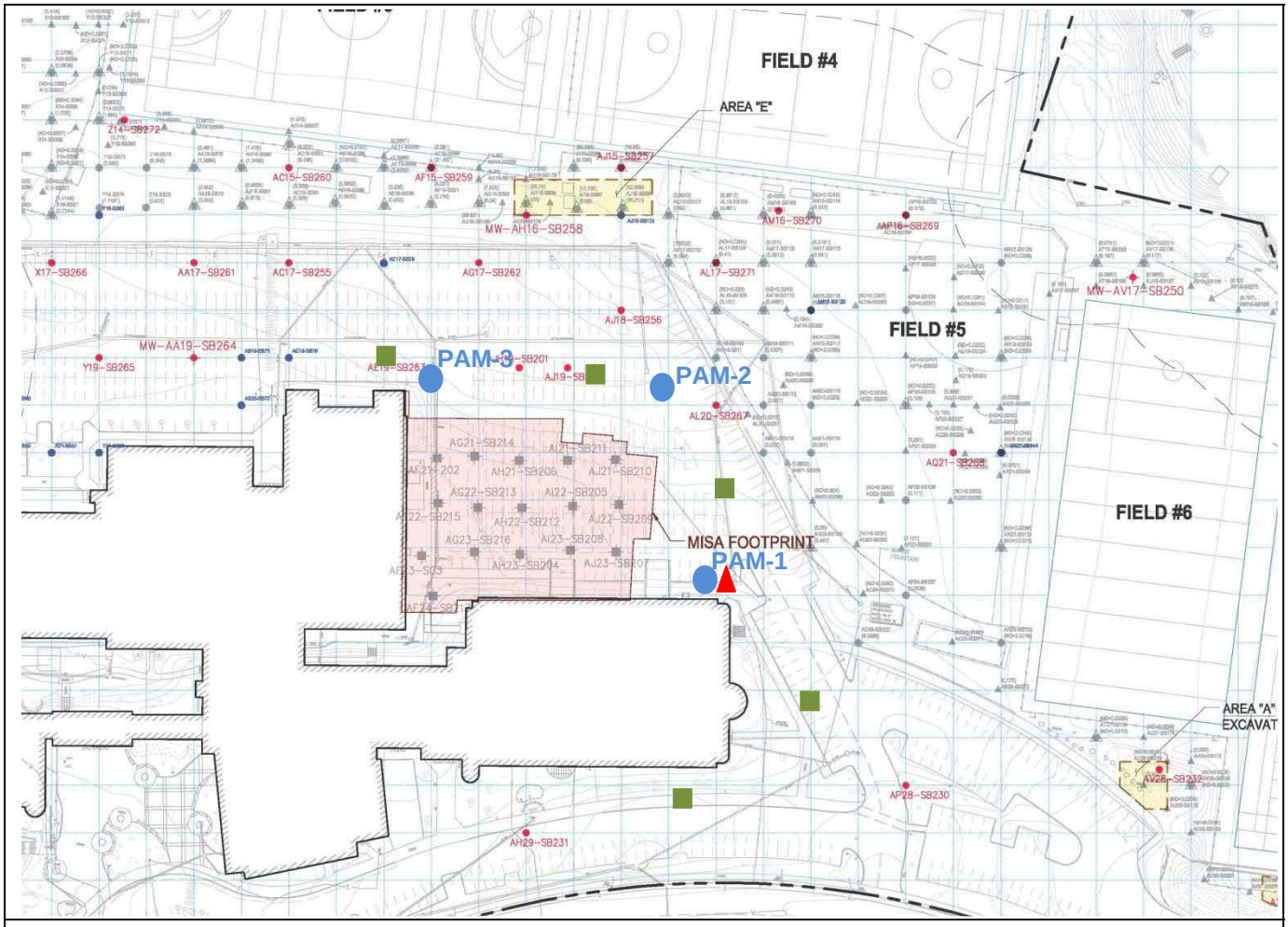


Figure 2: Site Map (12/16/13 – 12/22/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**12/23/13 – 12/29/13**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentrations greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 12/23/13	39.1	50.4	54.6	ND[1]
Tue 12/24/13	16.2	29.2	28.5	ND[1]
Wed 12/25/13	NA[2]	NA[2]	NA[2]	ND[1]
Thu 12/26/13	30.9	30.2	34.8	ND[1]
Fri 12/27/13	45.2	44.4	121.4	ND[1]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

[2] Site closed for Christmas Holiday (no Site activities).

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	PM_{10} concentrations remained below the Action Level.

Definitions:

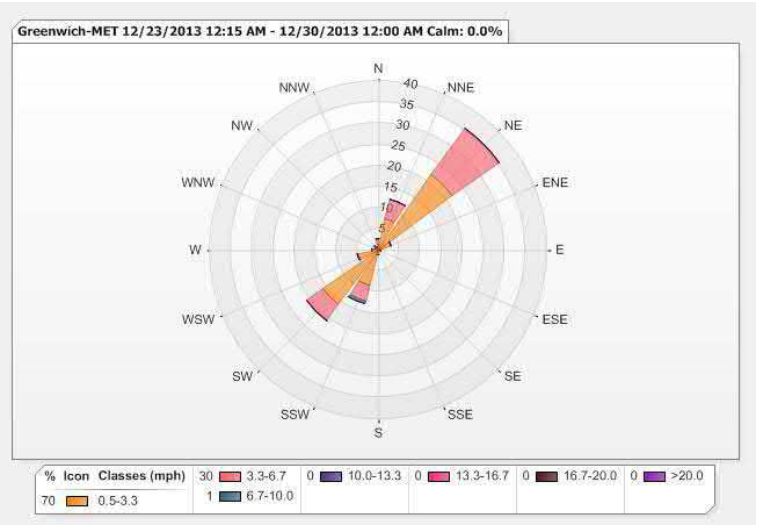
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

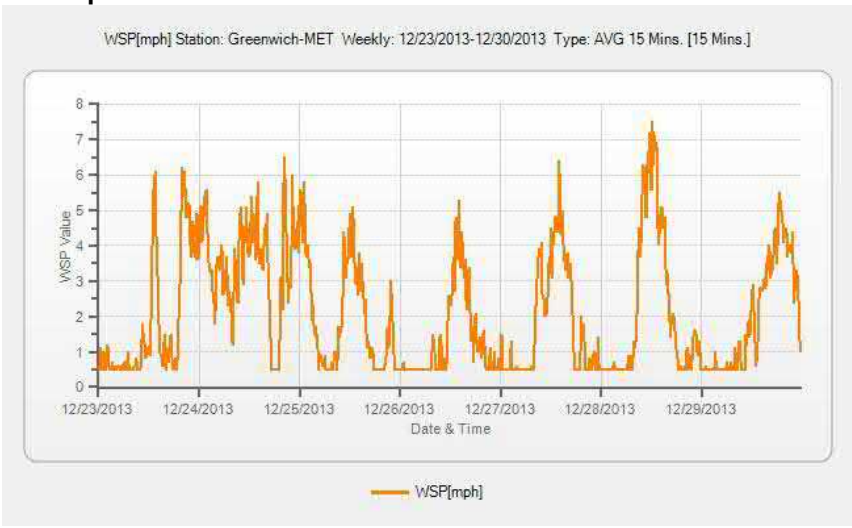
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (12/23/13 – 12/29/13)

Wind Rose:



Wind Speed:



Temperature:

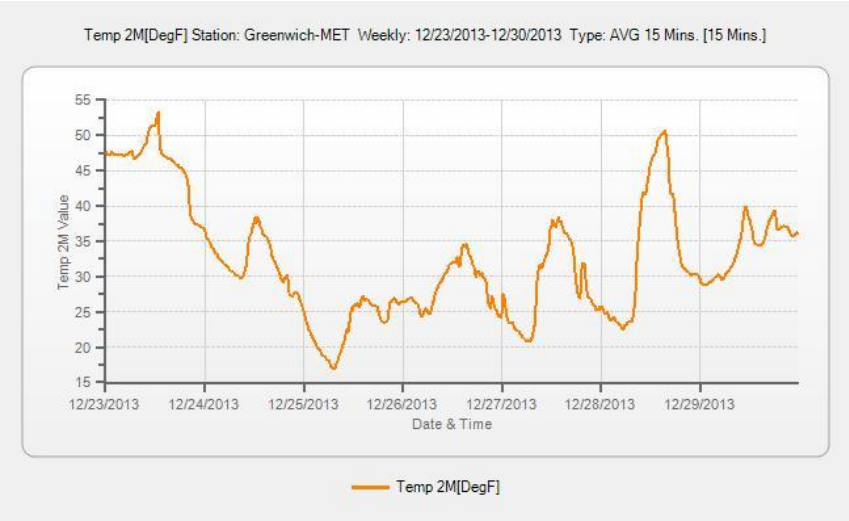
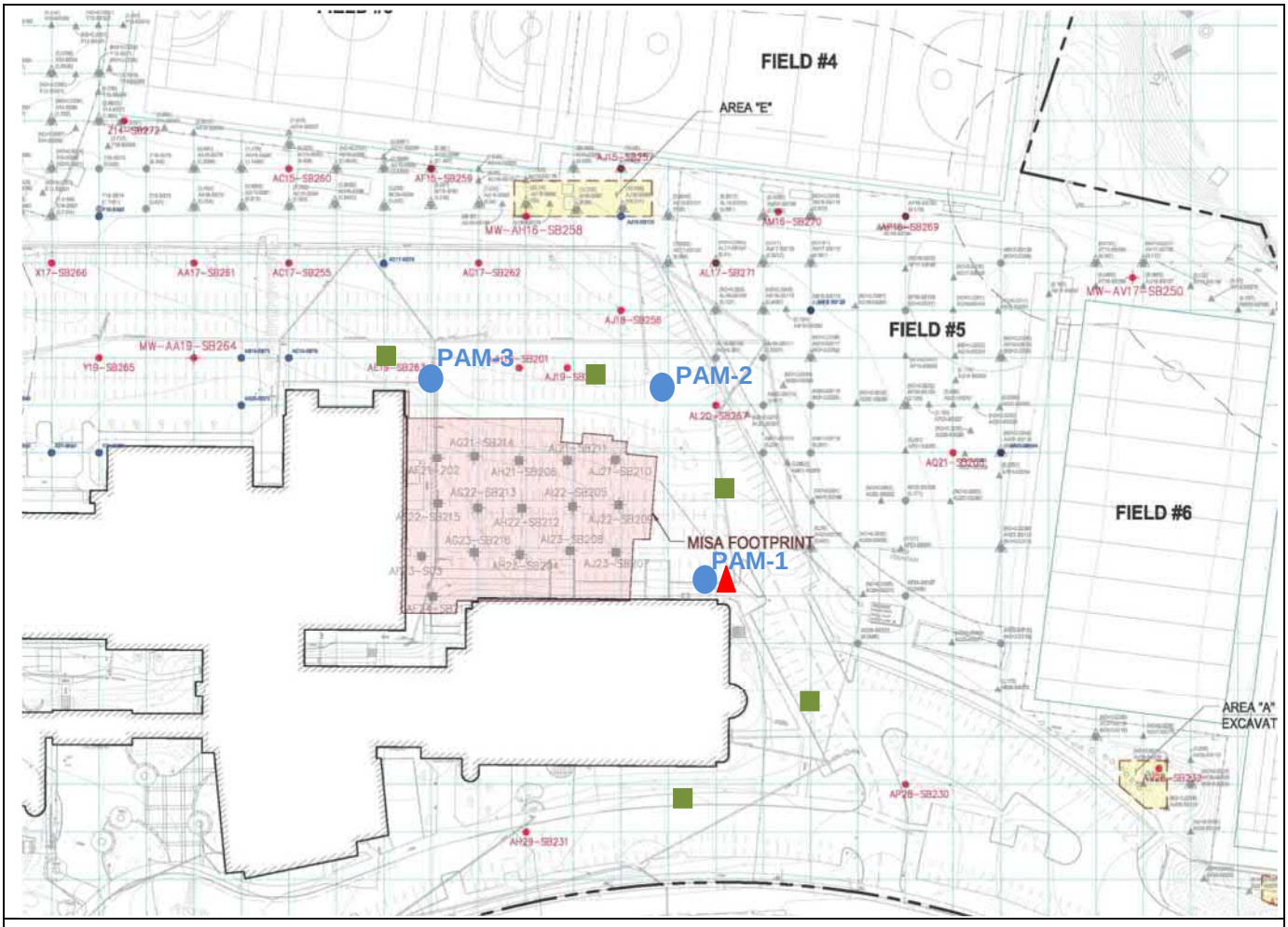


Figure 2: Site Map (12/23/13 – 12/29/13)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**12/30/13 – 1/5/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentrations greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 12/30/13	40.2	89.8	55.5	ND[1]
Tue 12/31/13	73.1	73.9	86.5	ND[1]
Wed 1/1/14	NA[2]	NA[2]	NA[2]	ND[2]
Thu 1/2/14	29.6	32.1	113.8	ND[1]
Fri 1/3/14	NA[3]	NA[3]	NA[3]	ND[3]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

[2] Site closed for New Year Holiday (no Site activities).

[3] Site closed because of poor weather conditions (no Site activities).

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	PM_{10} concentrations remained below the Action Level.

Definitions:

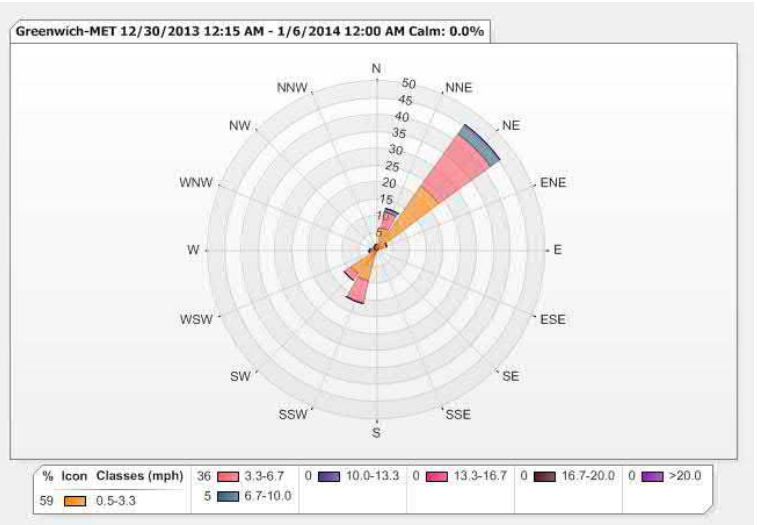
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

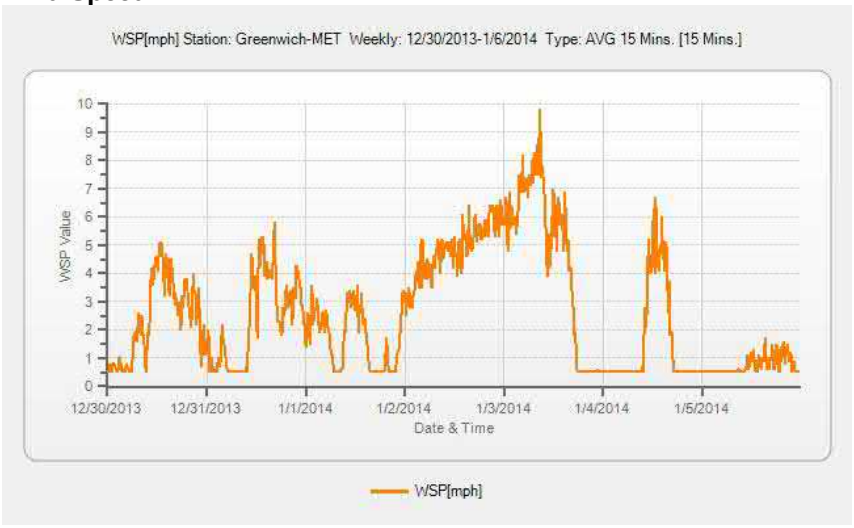
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (12/30/13 – 1/5/14)

Wind Rose:



Wind Speed:



Temperature:

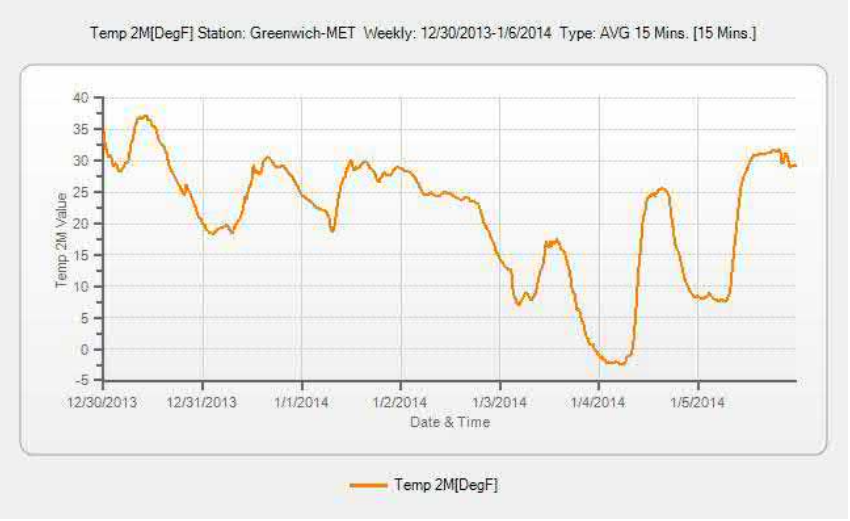
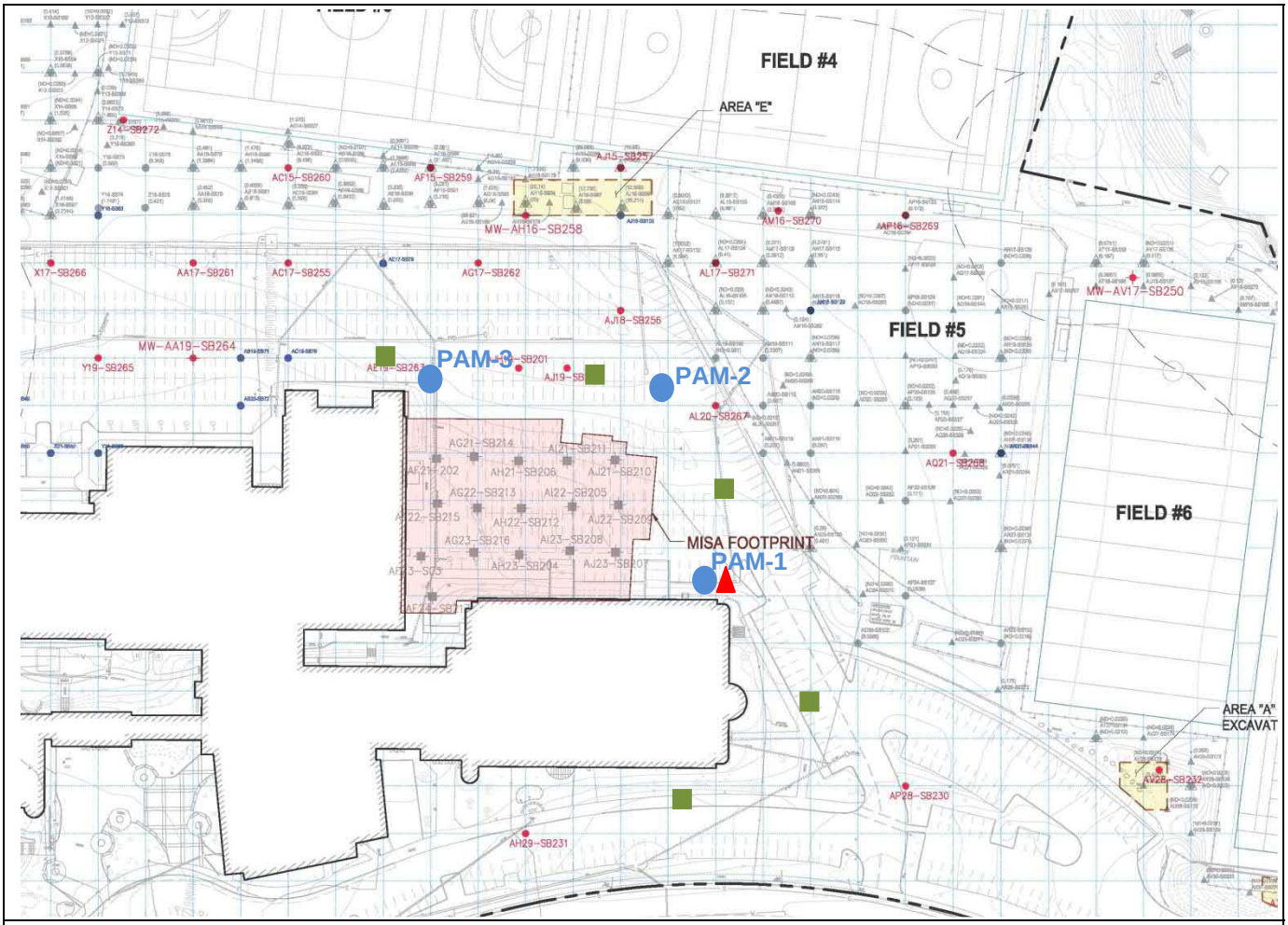


Figure 2: Site Map (12/30/13 – 1/5/14)



Legend:

- PAM – Portable Air Monitoring Station
- Hand-Held Monitoring Locations
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**1/6/14 – 1/12/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentrations greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 1/6/14	42.5	74.3	36.4	ND[1]
Tue 1/7/14	56.6	26.5	34.9	ND[1]
Wed 1/8/14	28.4	19.4	39.1	ND[1]
Thu 1/9/14	45.8	37.1	47.1	ND[1]
Fri 1/10/14	56.1	66.3	67.5	ND[1]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	PM_{10} concentrations remained below the Action Level.

Definitions:

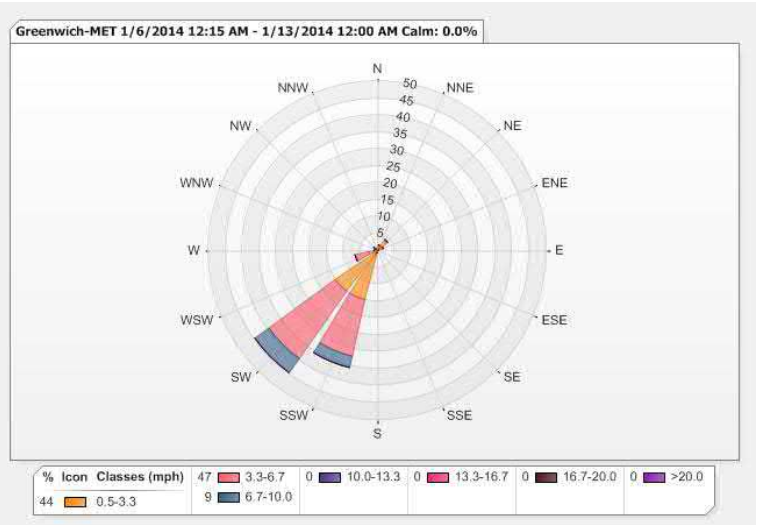
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

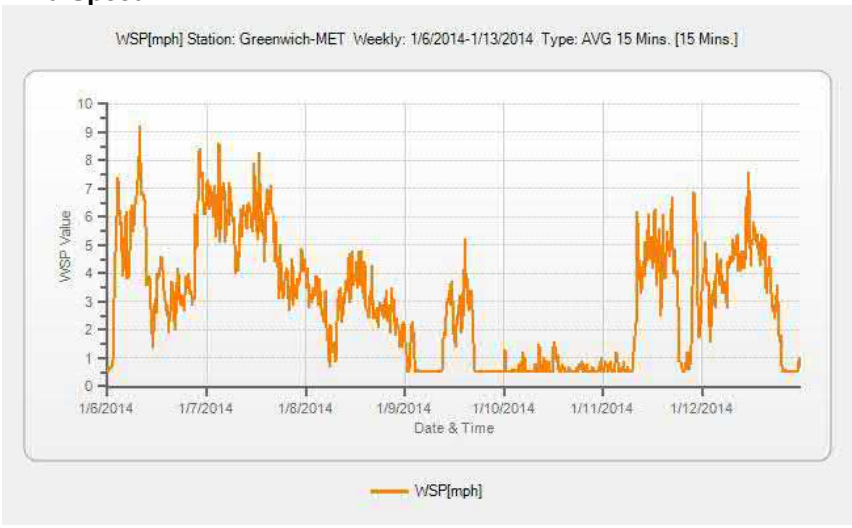
Figure 1: Meteorological Summaries (1/6/14 – 1/10/14)

Wind Rose:



* Wind direction data was invalid between 1/9/14 and 1/15/14 because the system was relocated the sensor was not properly aligned.

Wind Speed:



Temperature:

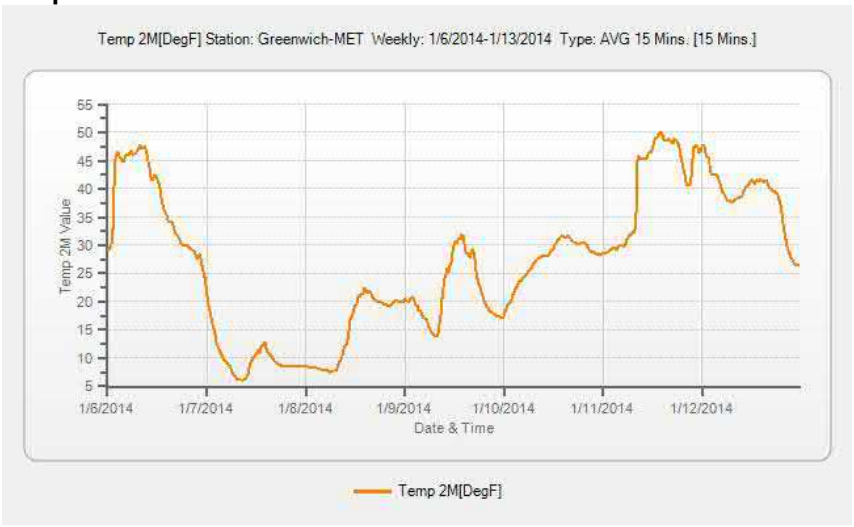
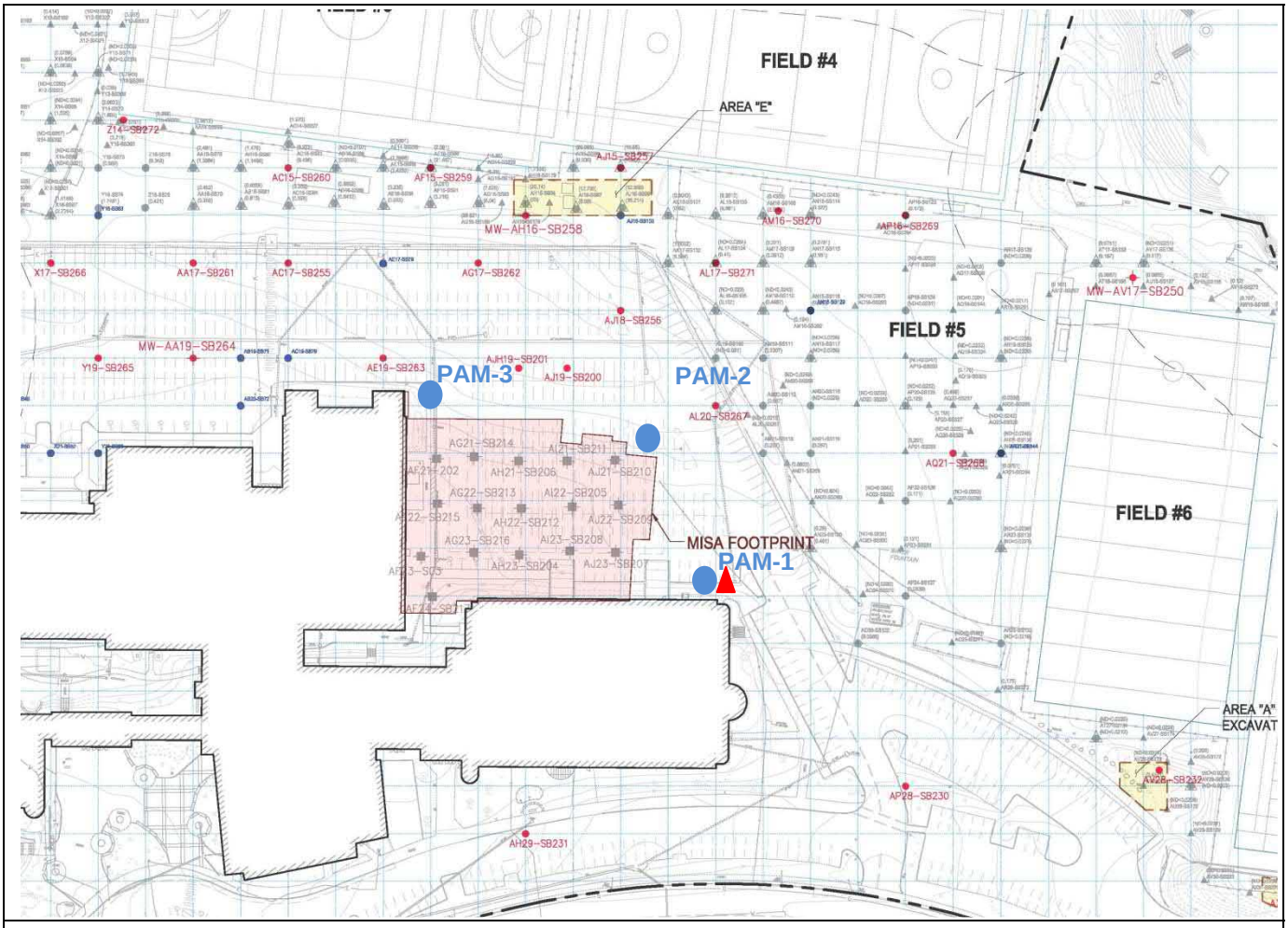


Figure 2: Site Map (1/6/14 – 1/10/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**1/13/14 – 1/19/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were several PM_{10} concentrations greater than the Action Level. These elevated concentrations were evaluated and after performing background subtraction per PAMP guidelines, the elevated concentrations fell below the Alert Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 1/13/14	85.4	80.0	77.6	ND[1]
Tue 1/14/14	45.1	63.3	53.1	ND[1]
Wed 1/15/14	154.9	172.0	197.3	ND[1]
Thu 1/16/14	30.6	36.0	37.5	ND[1]
Fri 1/17/14	52.0	81.1	82.7	ND[1]

Definitions:

PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrograms per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	Wed 1/15/14	8:15AM	PAM-3	SW 0.9 mph	189.4	113.7	75.7	Elevated PM_{10} concentrations were caused by high regional background concentrations associated with fog and high relative humidity.
		8:30AM	PAM-1		154.9	154.9	0.0	
		8:30AM	PAM-2		172.0		17.1	
		8:30AM	PAM-3		197.3		42.4	

Definitions:

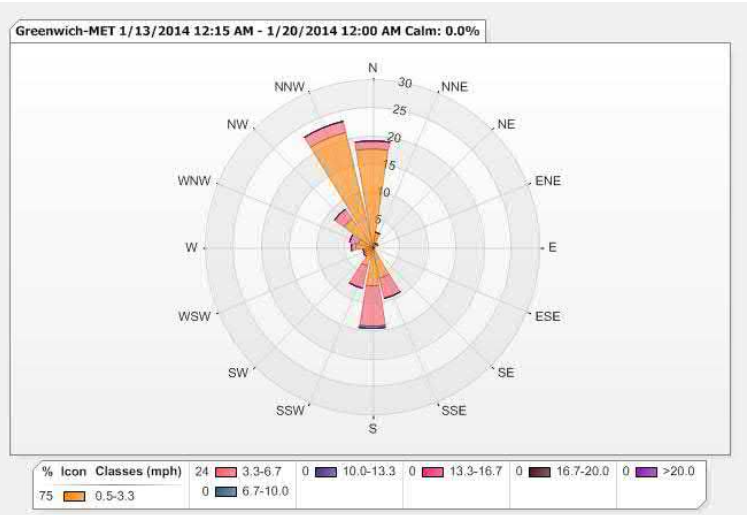
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

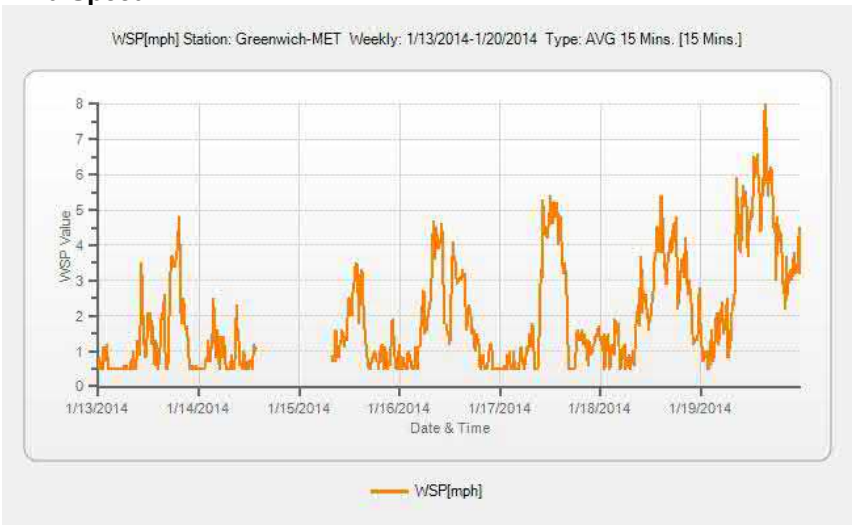
Figure 1: Meteorological Summaries (1/13/14 – 1/19/14)

Wind Rose:



* Wind direction data was invalid between 1/9/14 and 1/15/14 because the system was relocated and the sensor was not properly aligned.

Wind Speed:



Temperature:

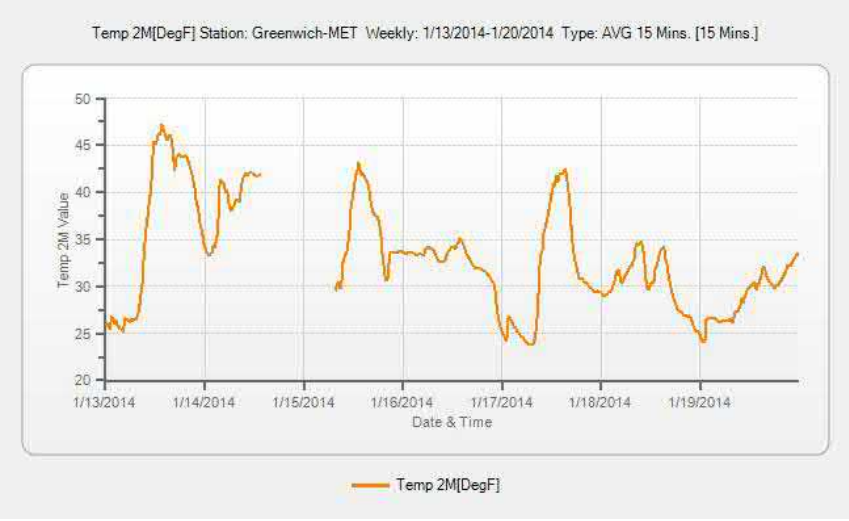
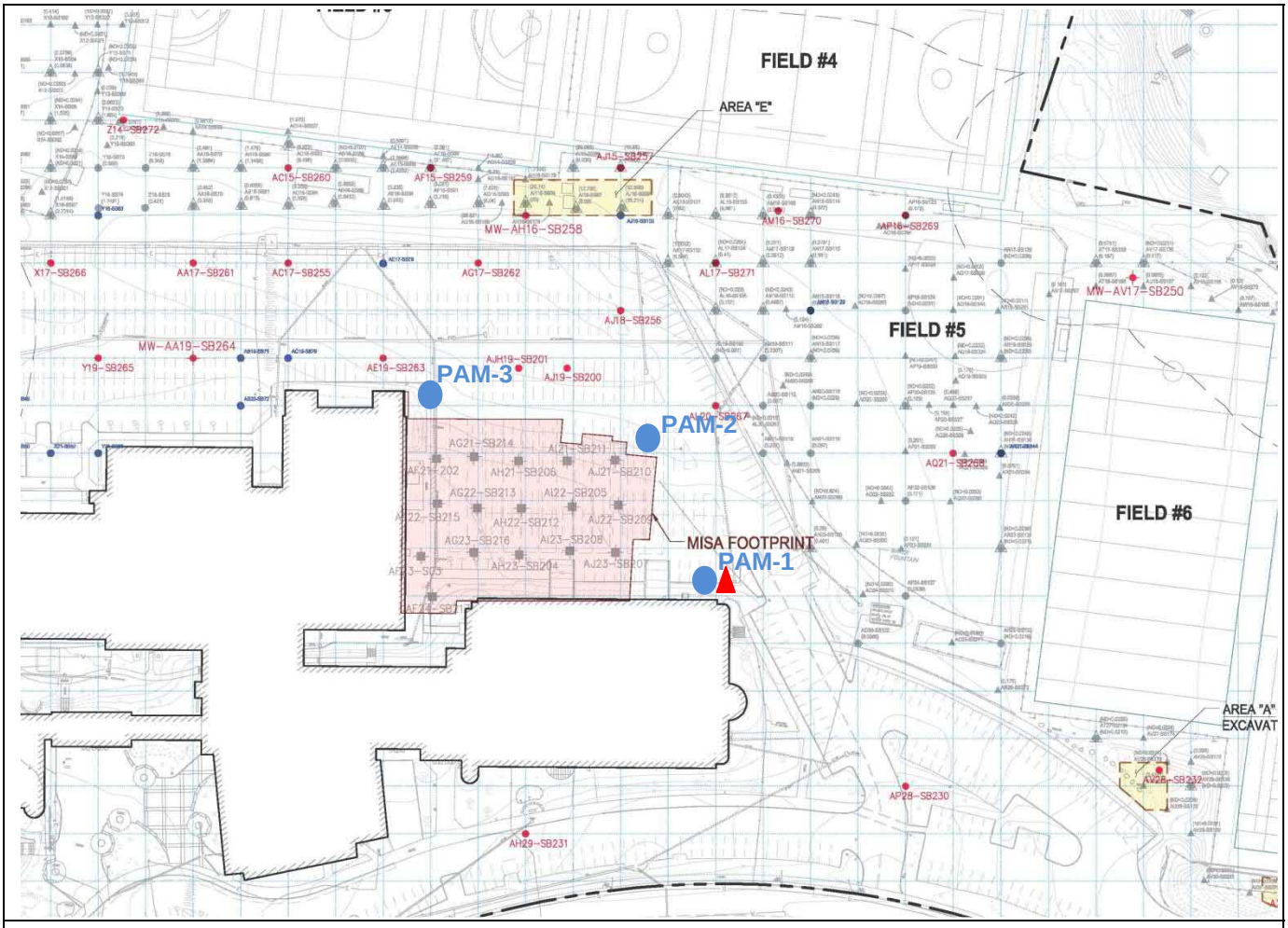


Figure 2: Site Map (1/13/14 – 1/19/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**1/20/14 – 1/26/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentrations greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 1/20/14	26.8	41.2	36.0	ND[1]
Tue 1/21/14	16.4	45.3	25.1	ND[1]
Wed 1/22/14	ND[2]	ND[2]	ND[2]	ND[2]
Thu 1/23/14	22.0	25.0	41.0	ND[1]
Fri 1/24/14	32.7	41.8	30.4	ND[1]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

[2] Site closed because of adverse weather conditions (no Site activities).

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	Concentrations remained below the Action Level.

Definitions:

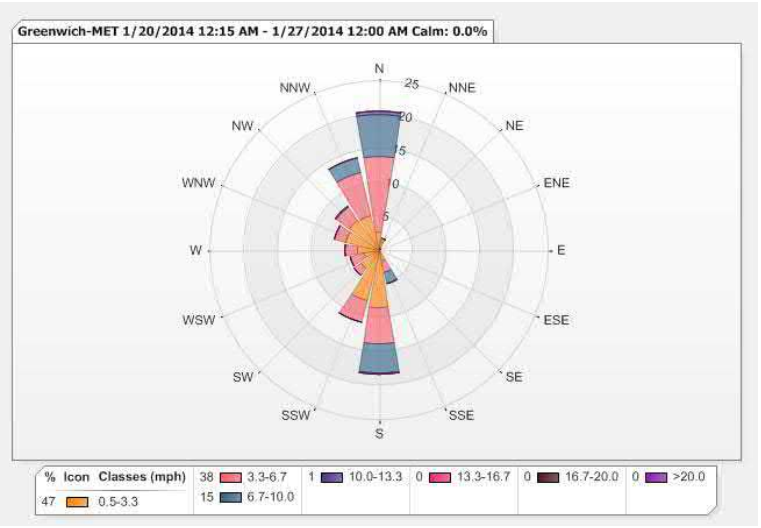
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

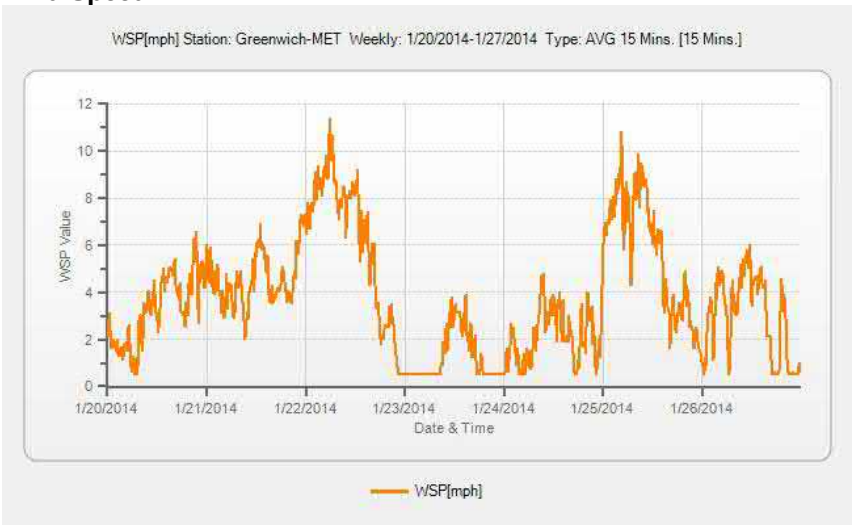
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (1/20/14 – 1/26/14)

Wind Rose:



Wind Speed:



Temperature:

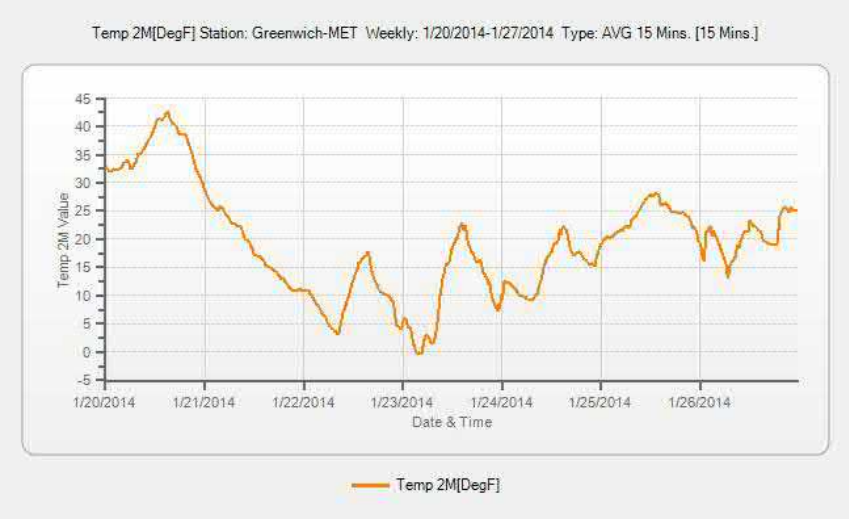
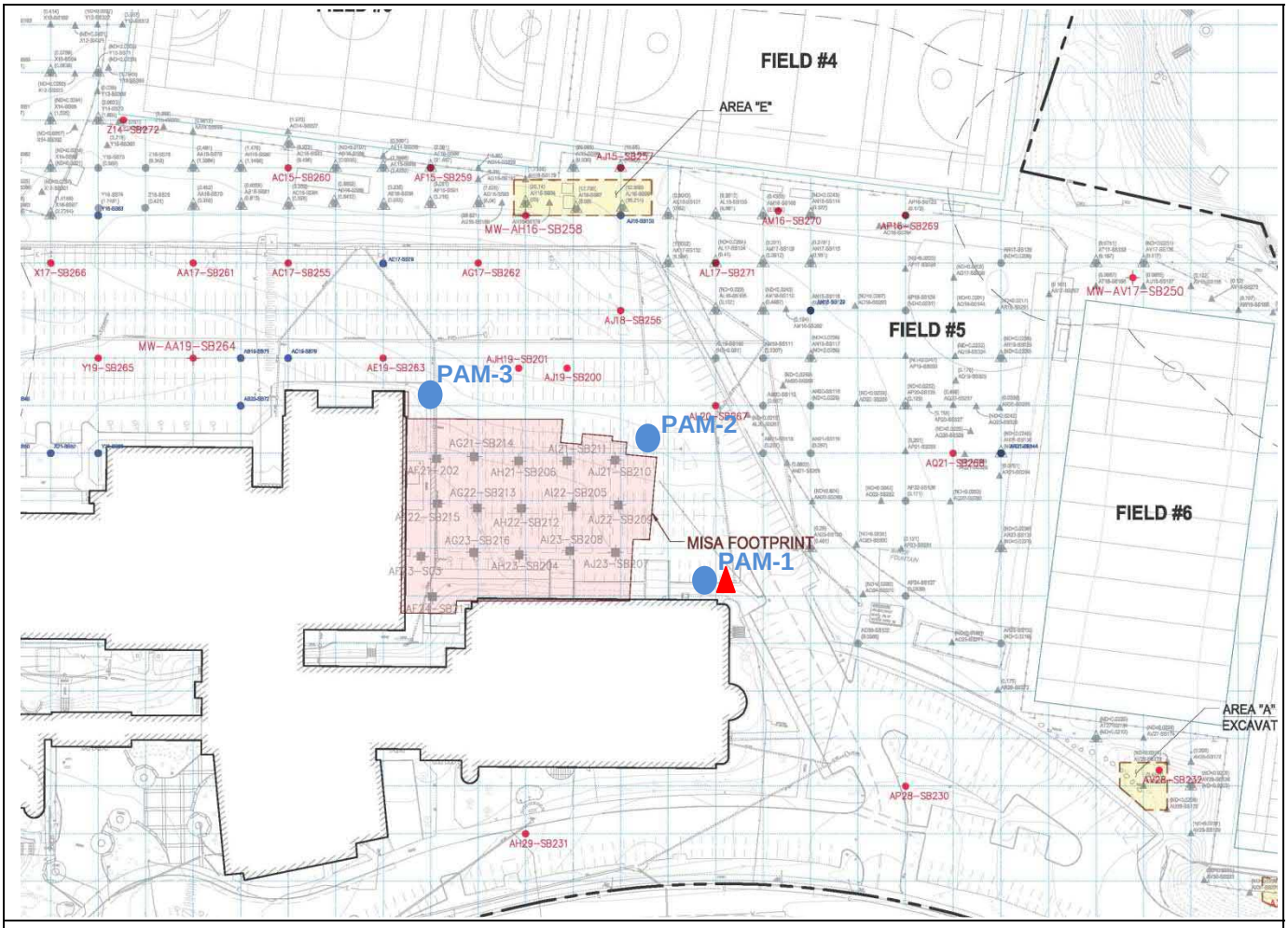


Figure 2: Site Map (1/20/14 – 1/26/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**1/27/14 – 2/2/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentrations greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 1/27/14	68.3	44.1	45.6	ND[1]
Tue 1/28/14	51.7	71.6	30.7	ND[1]
Wed 1/29/14	70.3	30.5	40.3	ND[1]
Thu 1/30/14	49.4	50.5	58.8	ND[1]
Fri 1/31/14	73.1	77.8	44.3	ND[1]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	Concentrations remained below the Action Level.

Definitions:

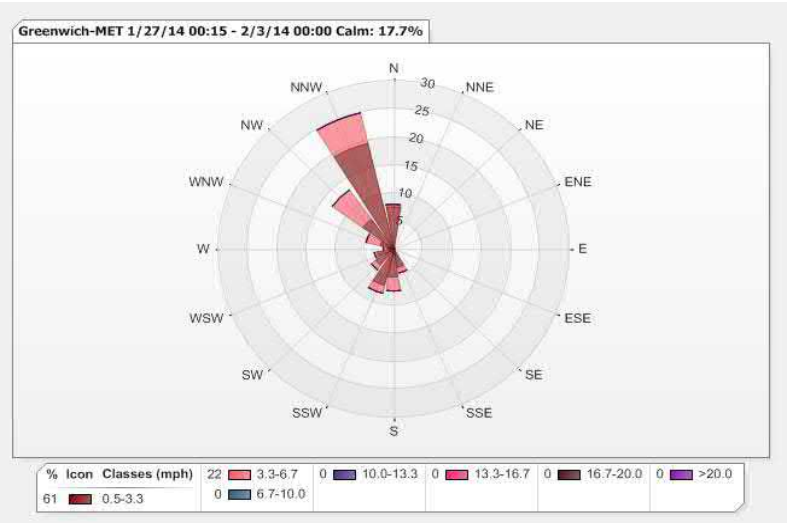
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

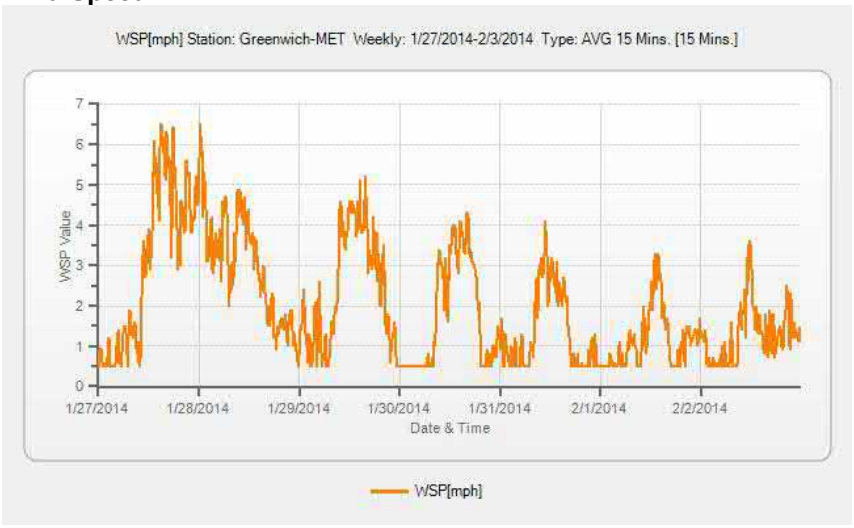
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (1/27/14 – 2/2/14)

Wind Rose:



Wind Speed:



Temperature:

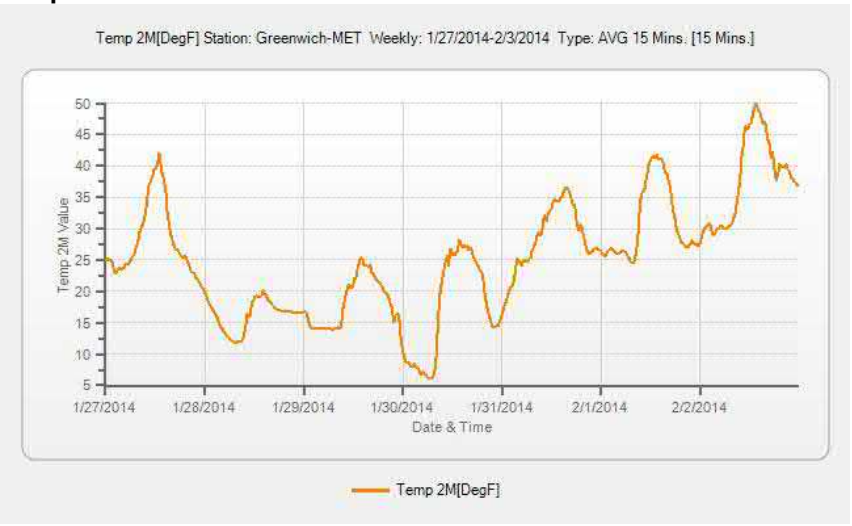
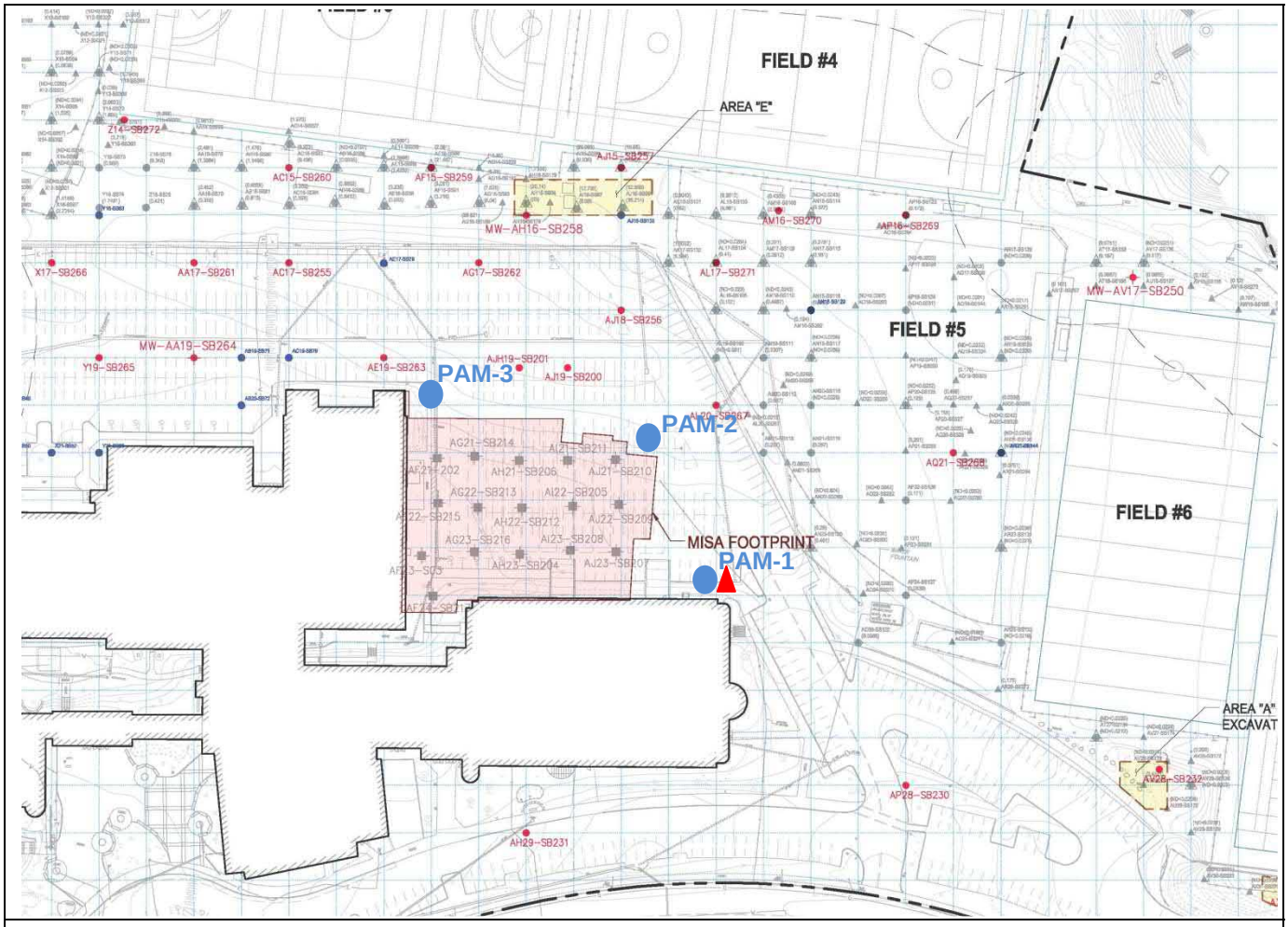


Figure 2: Site Map (1/27/14 – 2/2/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**2/3/14 – 2/9/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentrations greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 2/3/14	27.6	26.6	ND[1]	ND[2]
Tue 2/4/14	58.7	29.0	50.3	ND[3]
Wed 2/5/14	ND[3]	ND[3]	ND[3]	ND[3]
Thu 2/6/14	30.7	24.0	44.0	ND[2]
Fri 2/7/14	96.8	22.6	33.1	ND[2]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] PM_{10} data invalid because of an instrument malfunction.

[2] Hand-held monitoring was not performed during the reporting period.

[3] Site closed because of poor weather conditions (no Site activities).

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	Concentrations remained below the Action Level.

Definitions:

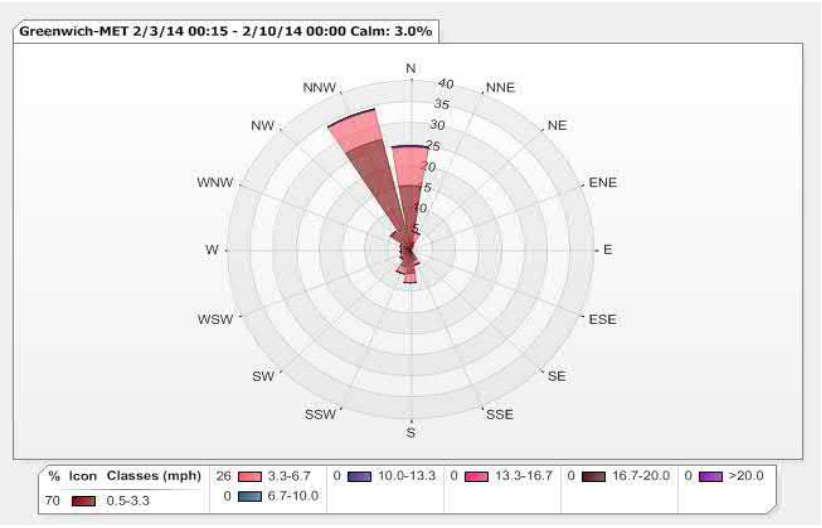
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

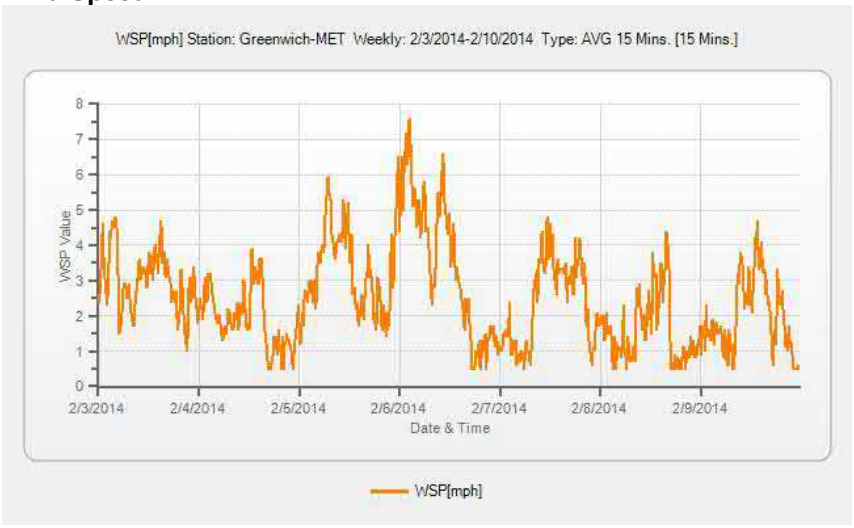
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (2/3/14 – 2/9/14)

Wind Rose:



Wind Speed:



Temperature:

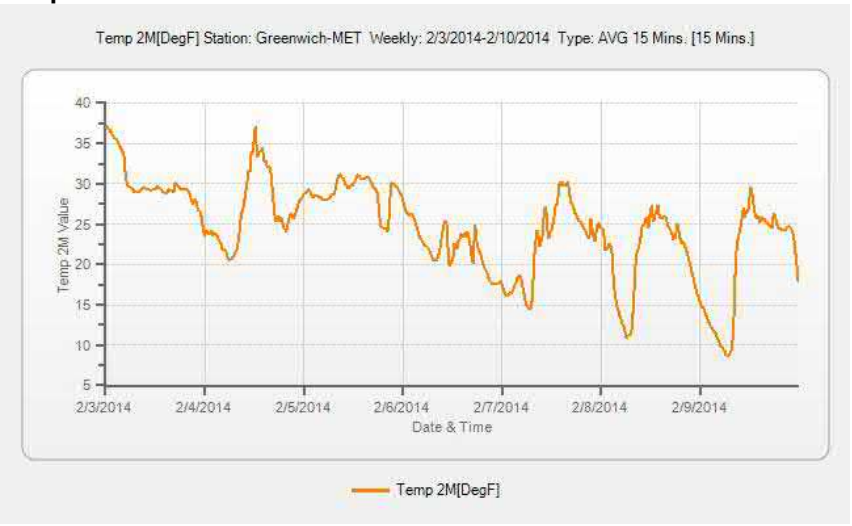
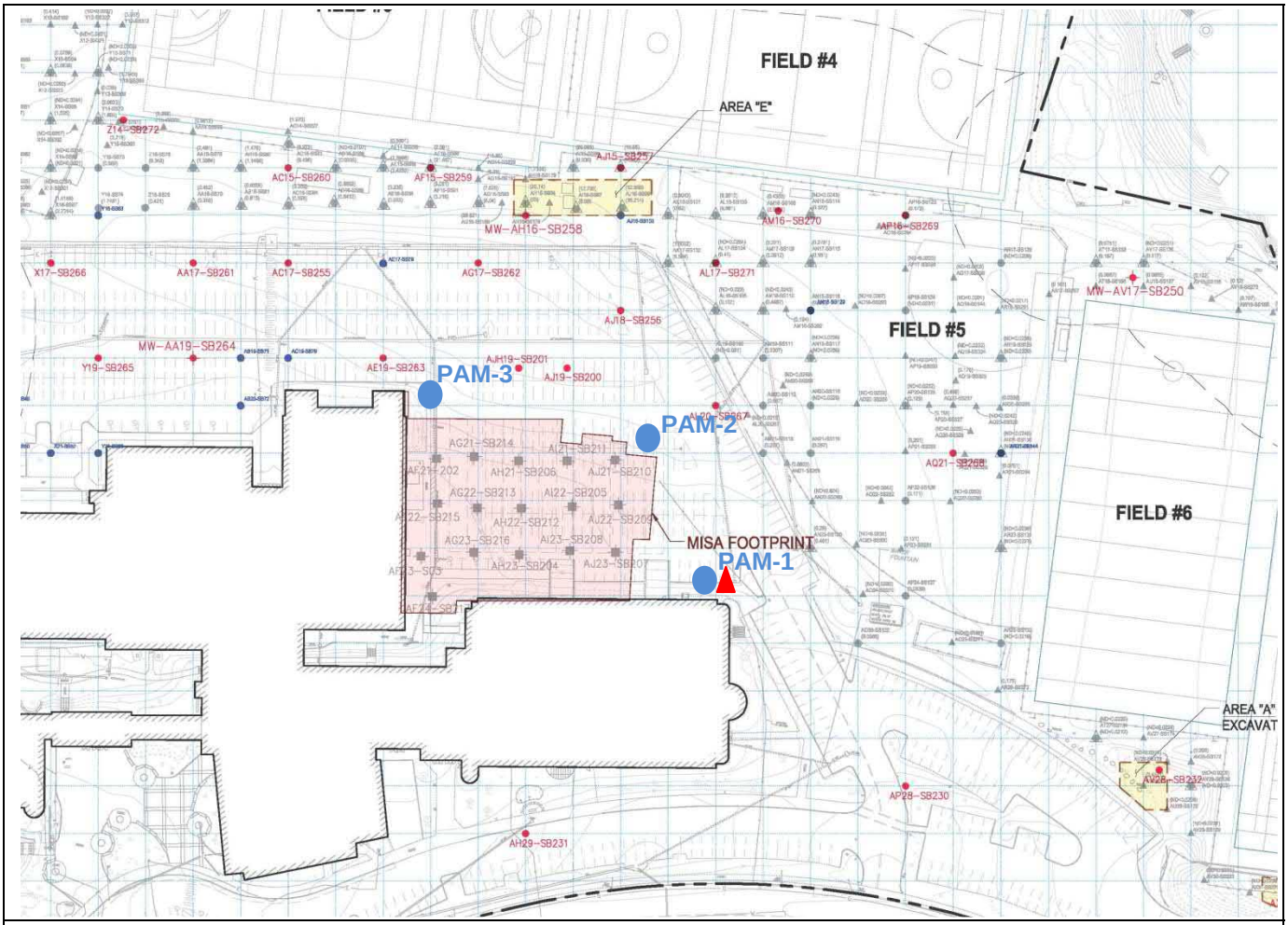


Figure 2: Site Map (2/3/14 – 2/9/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**2/10/14 – 2/16/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentrations greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 2/10/14	ND[1]	36.8	39.2	ND[2]
Tue 2/11/14	ND[1]	29.9	29.7	ND[2]
Wed 2/12/14	75.3	30.3	25.9	ND[2]
Thu 2/13/14	NA[3]	NA[3]	NA[3]	NA[3]
Fri 2/14/14	NA[4]	NA[4]	NA[4]	NA[4]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] PM_{10} data invalid because of an instrument malfunction.

[2] Hand-held monitoring was not performed during the reporting period.

[3] Site closed because of adverse weather conditions (no Site activities).

[4] Site closed because of adverse weather conditions (snow removal activities only).

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	Concentrations remained below the Action Level.

Definitions:

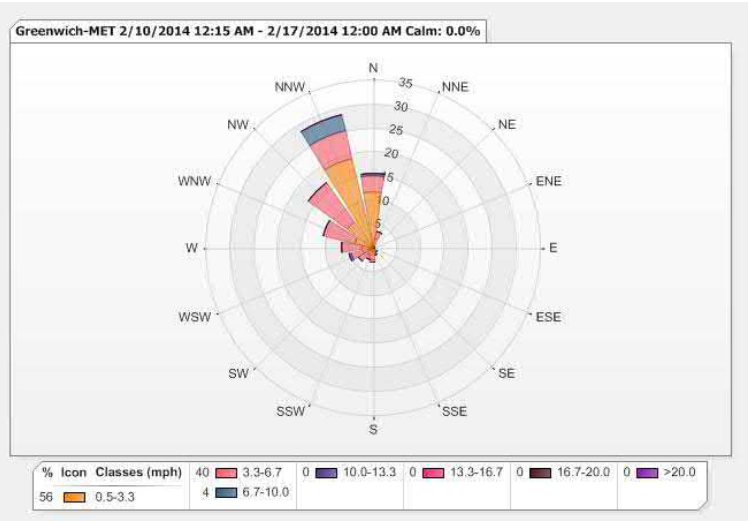
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

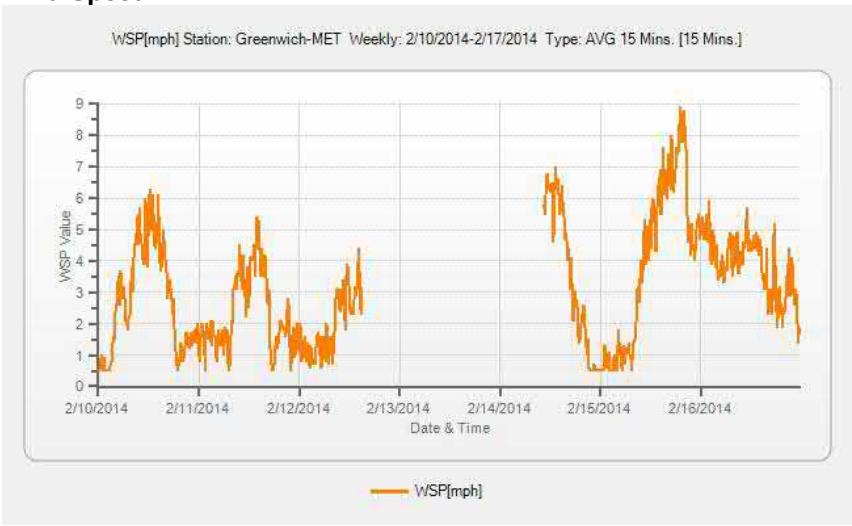
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (2/10/14 – 2/16/14)

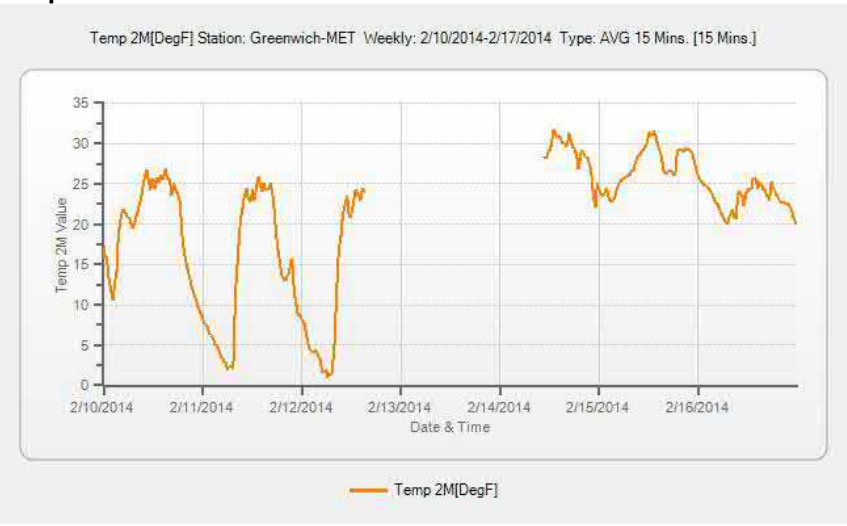
Wind Rose:



Wind Speed:

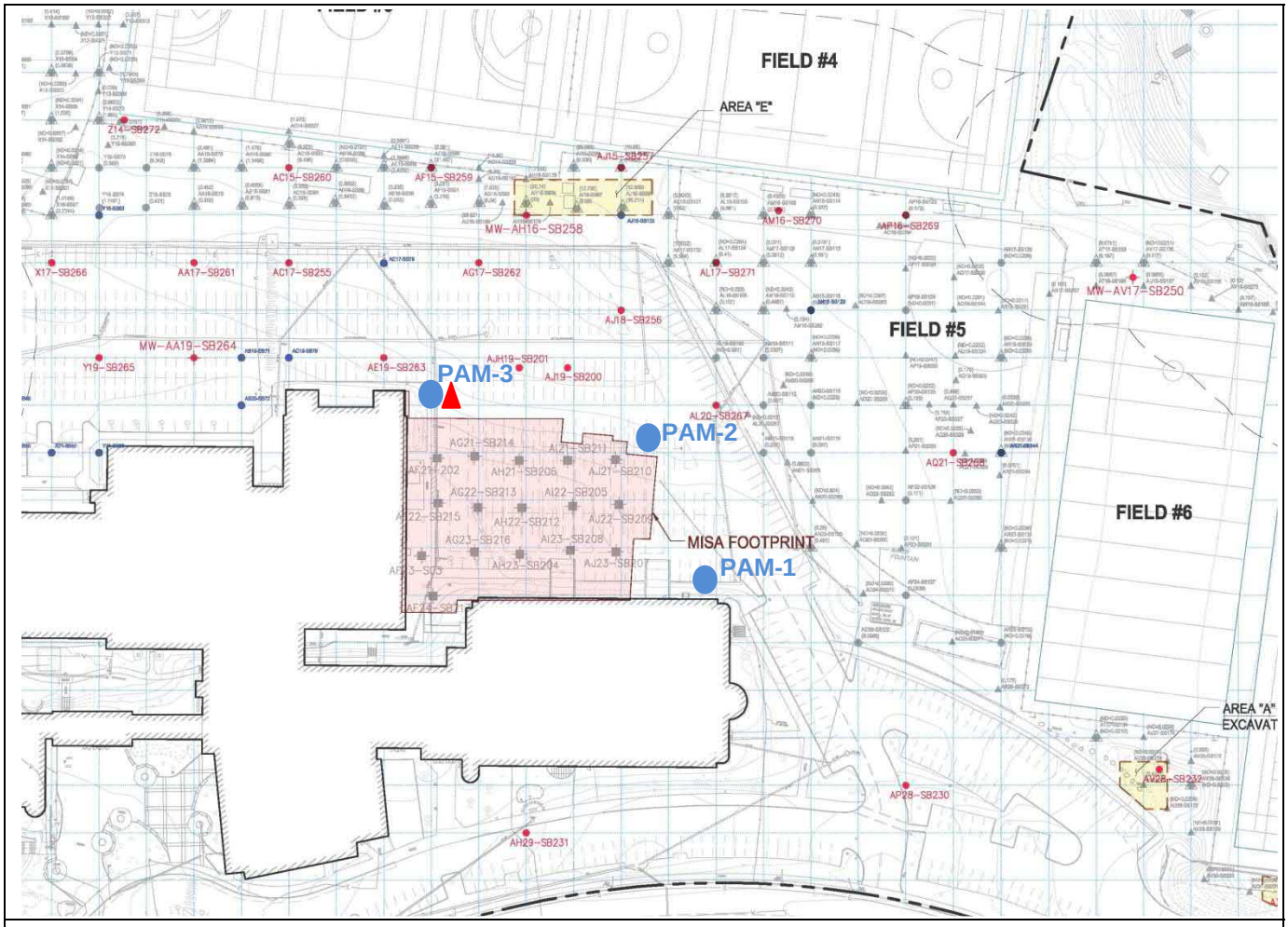


Temperature:



* Met data was invalid from 2/12/14 at 5:30PM to 2/14/14 at 10:00AM because the system was brought inside trailer due to inclement weather.

Figure 2: Site Map (2/10/14 – 2/16/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**2/17/14 – 2/23/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentrations greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 2/17/14	28.3	16.3	25.2	ND[2]
Tue 2/18/14	ND[1]	ND[1]	ND[1]	ND[1]
Wed 2/19/14	82.3	89.1	39.5	ND[2]
Thu 2/20/14	81.9	62.1	75.6	NA[2]
Fri 2/21/14	29.5	33.2	NA[3]	NA[2]

Definitions:

PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrograms per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Site closed because of adverse weather conditions (rain and snow).
[2] Hand-held monitoring was not performed during the reporting period.
[3] PM_{10} data invalid because of an instrument malfunction.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	Concentrations remained below the Action Level.

Definitions:

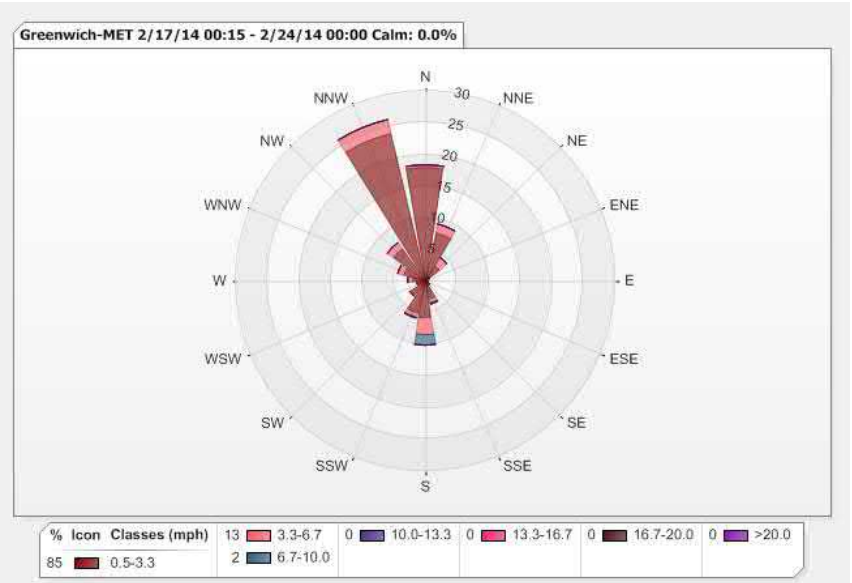
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

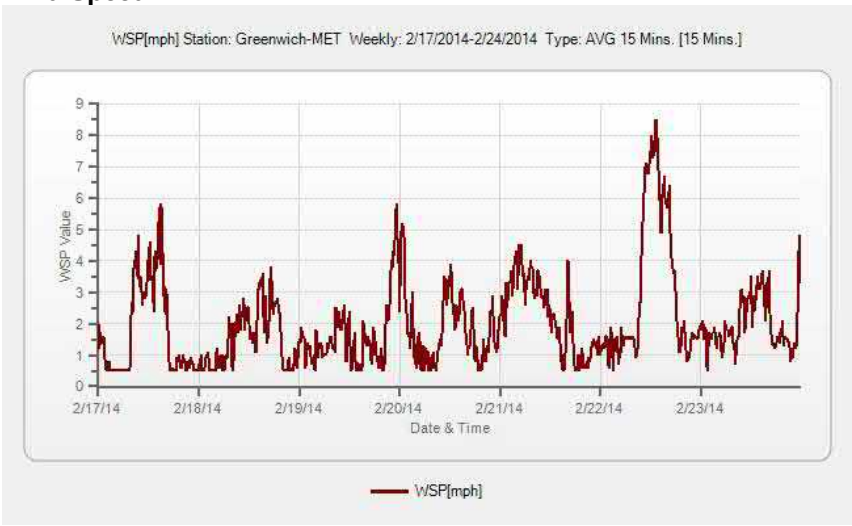
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (2/17/14 – 2/23/14)

Wind Rose:



Wind Speed:



Temperature:

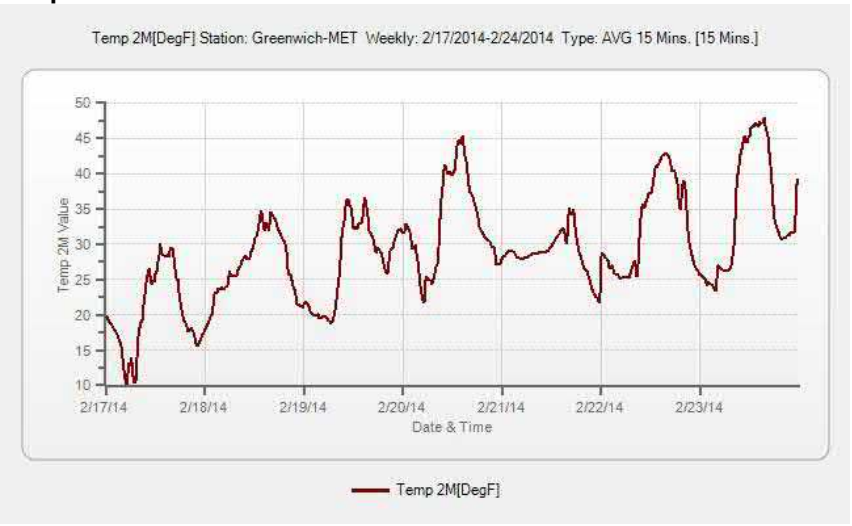


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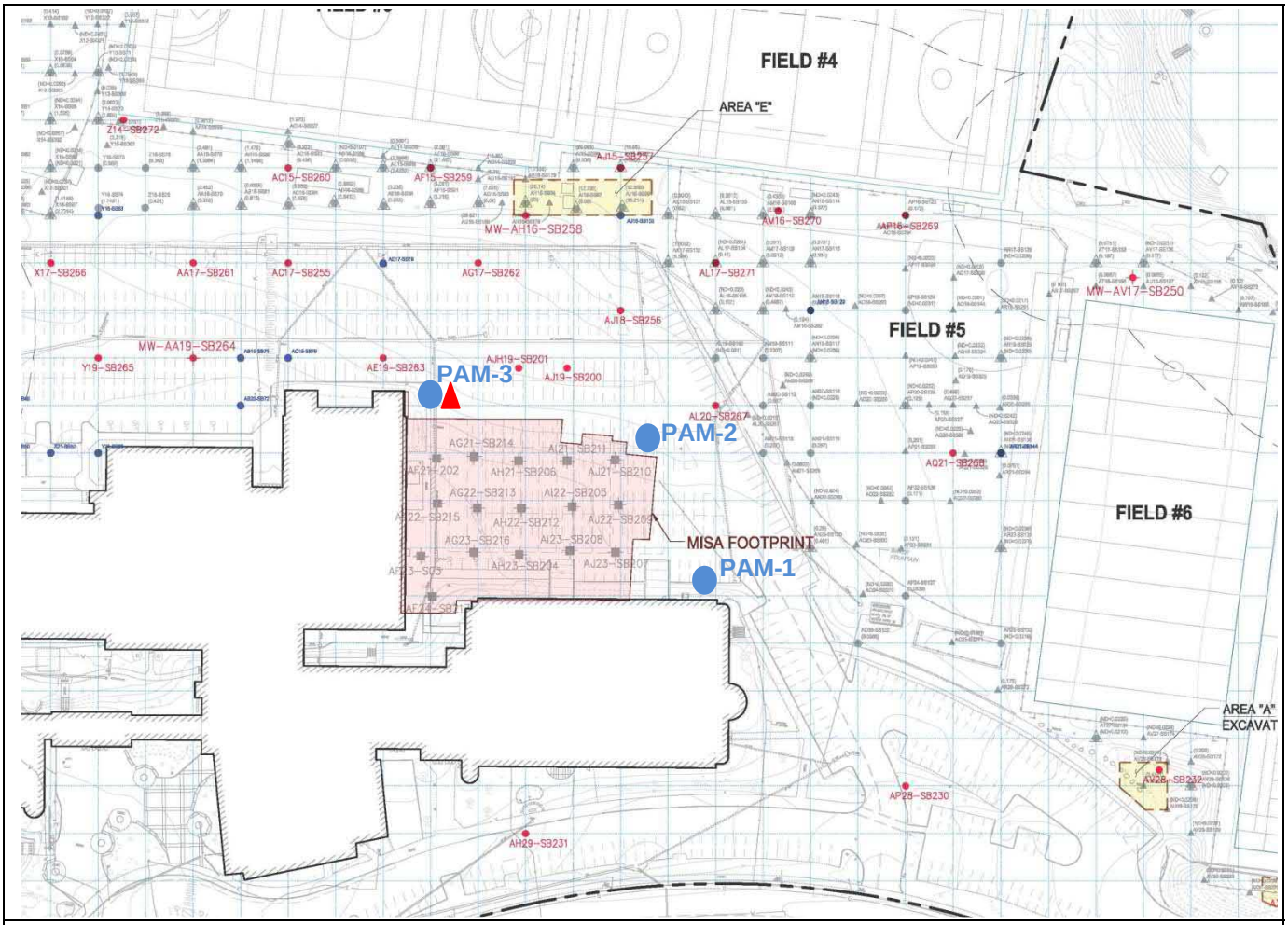
Figure 2: Site Map (2/17/14 – 2/23/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**2/24/14 – 3/2/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentrations greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 2/24/14	24.6	9.6	31.3	ND[1]
Tue 2/25/14	31.4	20.2	ND[2]	ND[1]
Wed 2/26/14	50.8	41.1	ND[2]	ND[1]
Thu 2/27/14	36.4	21.9	60.8	NA[1]
Fri 2/28/14	30.3	12.5	24.3	NA[1]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

[2] PM_{10} data invalid because of an instrument malfunction.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	Concentrations remained below the Action Level.

Definitions:

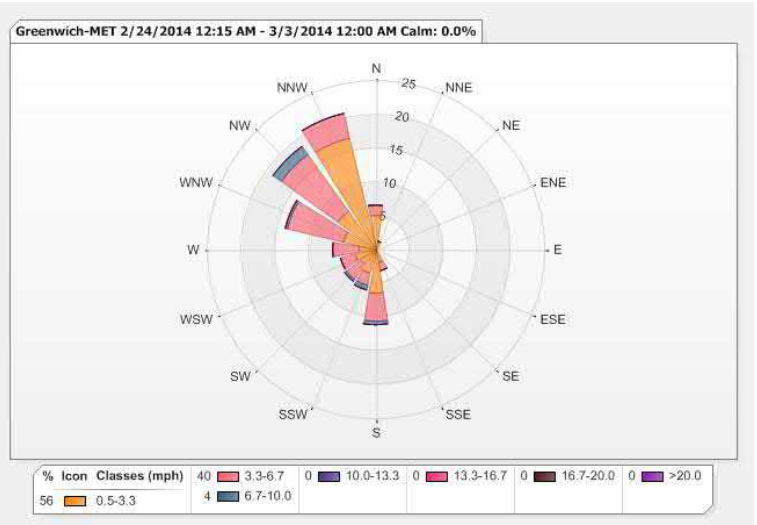
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

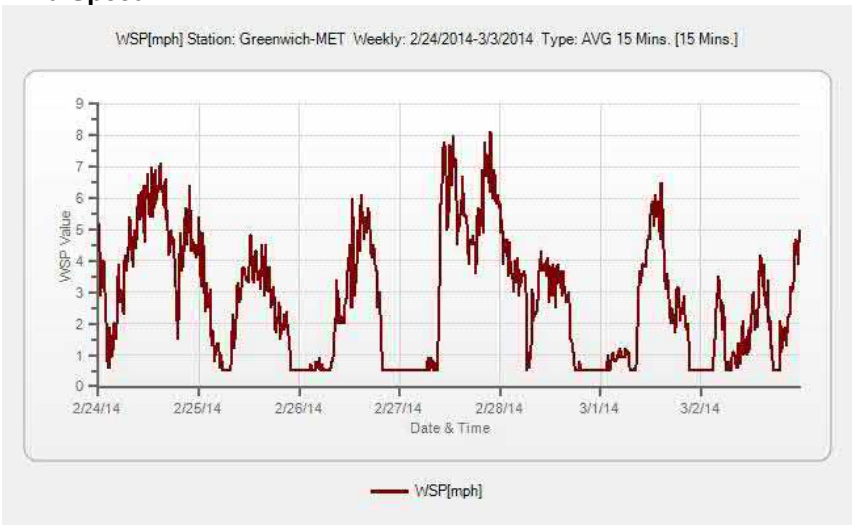
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (2/24/14 – 3/3/14)

Wind Rose:



Wind Speed:



Temperature:

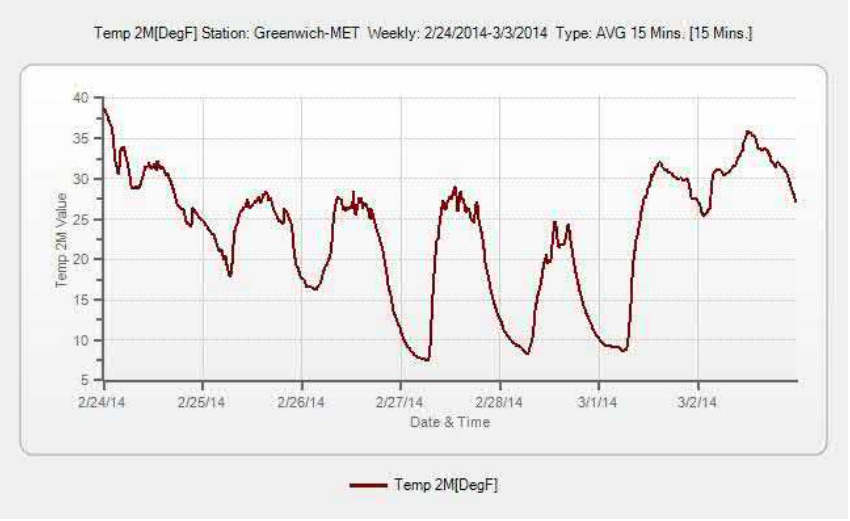


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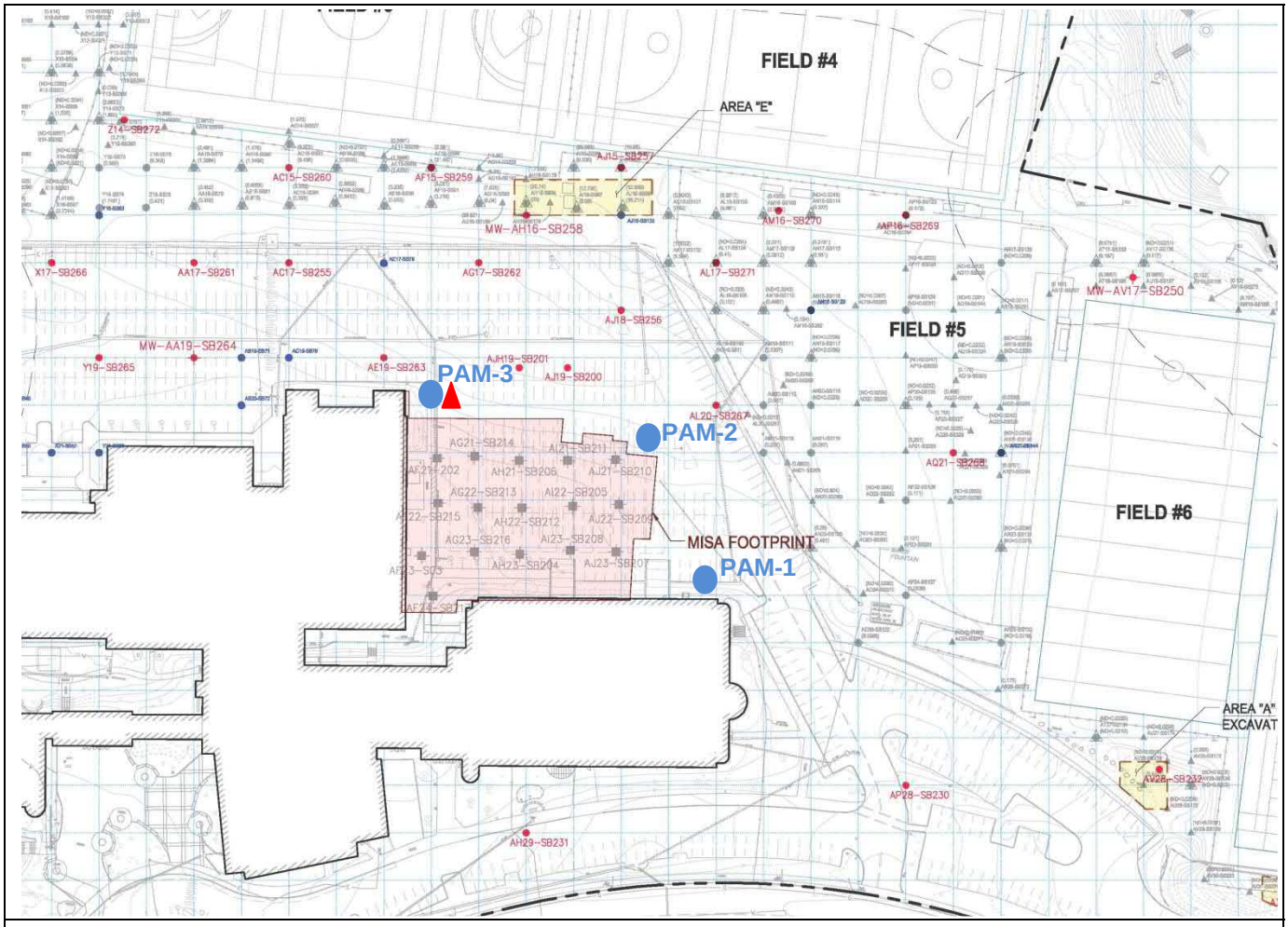
Figure 2: Site Map (2/24/14 – 3/3/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**3/3/14 – 3/9/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentrations greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 3/3/14	10.7	8.4	11.8	ND[1]
Tue 3/4/14	35.7	12.8	26.7	ND[1]
Wed 3/5/14	38.4	33.9	51.9	ND[1]
Thu 3/6/14	33.9	20.2	28.1	ND[1]
Fri 3/7/14	20.1	21.3	34.3	ND[1]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	Concentrations remained below the Action Level.

Definitions:

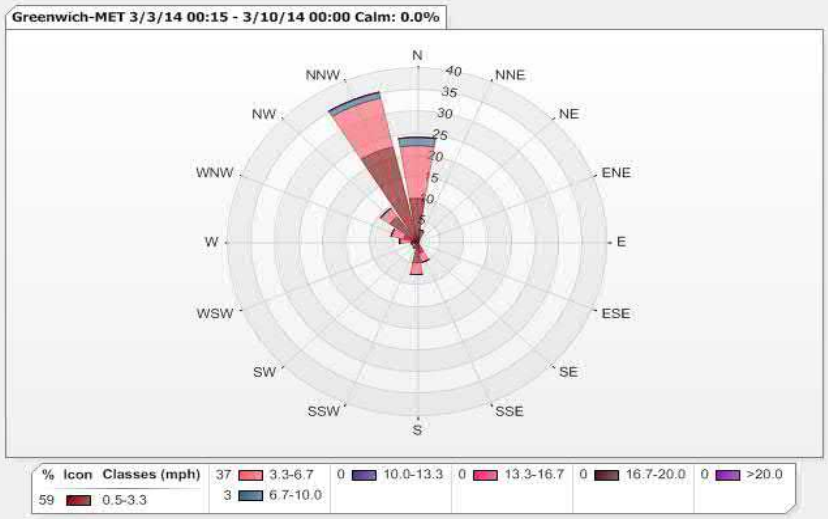
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

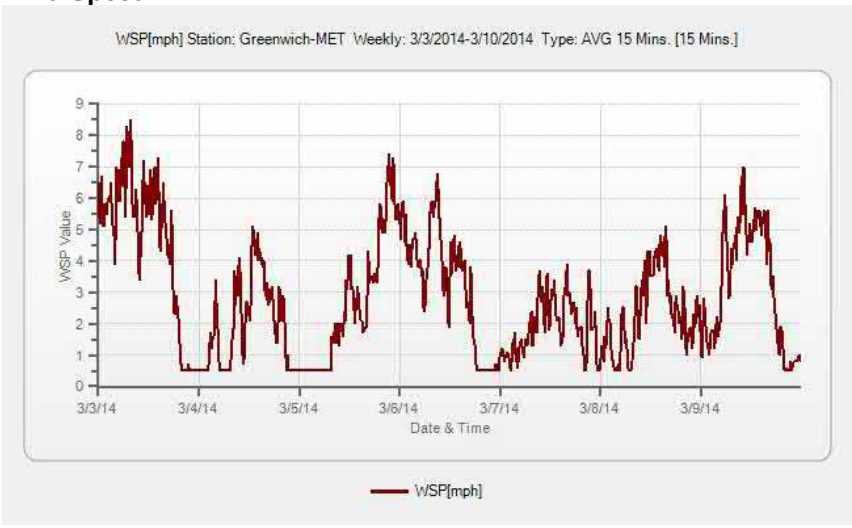
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (3/3/14 – 3/9/14)

Wind Rose:



Wind Speed:



Temperature:

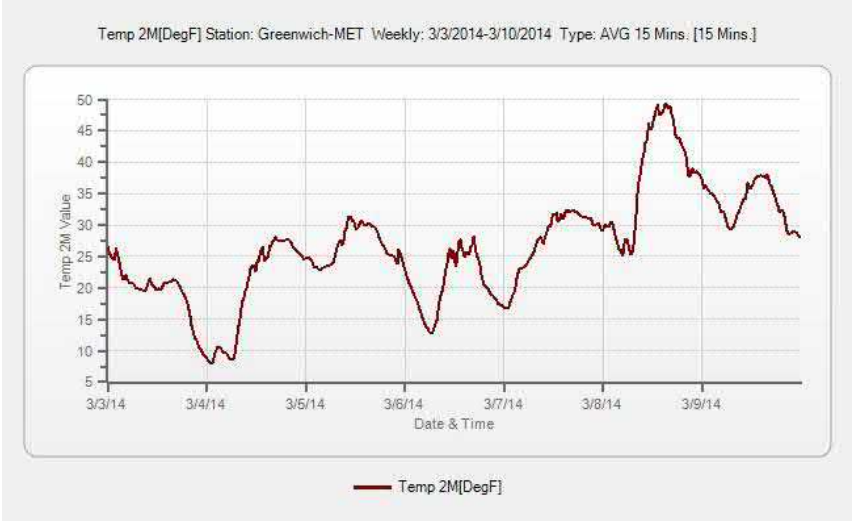


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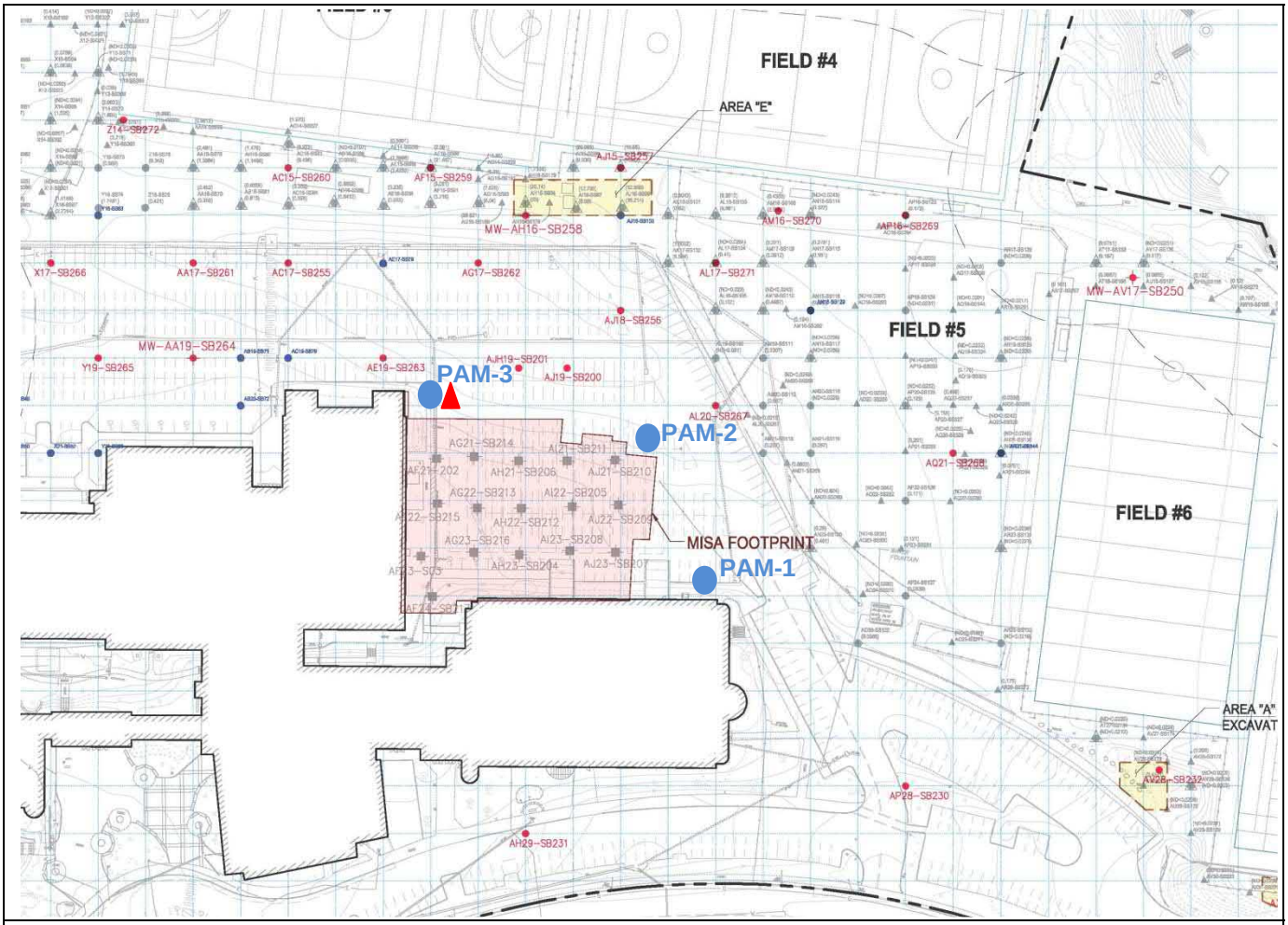
Figure 2: Site Map (3/3/14 – 3/9/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**3/10/14 – 3/16/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentrations greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 3/10/14	74.7	54.9	61.7	ND[1]
Tue 3/11/14	85.5	48.0	45.1	ND[1]
Wed 3/12/14	65.5	75.7	44.7	ND[1]
Thu 3/13/14	17.3	12.2	35.3	ND[1]
Fri 3/14/14	68.0	24.8	27.1	ND[1]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	Concentrations remained below the Action Level.

Definitions:

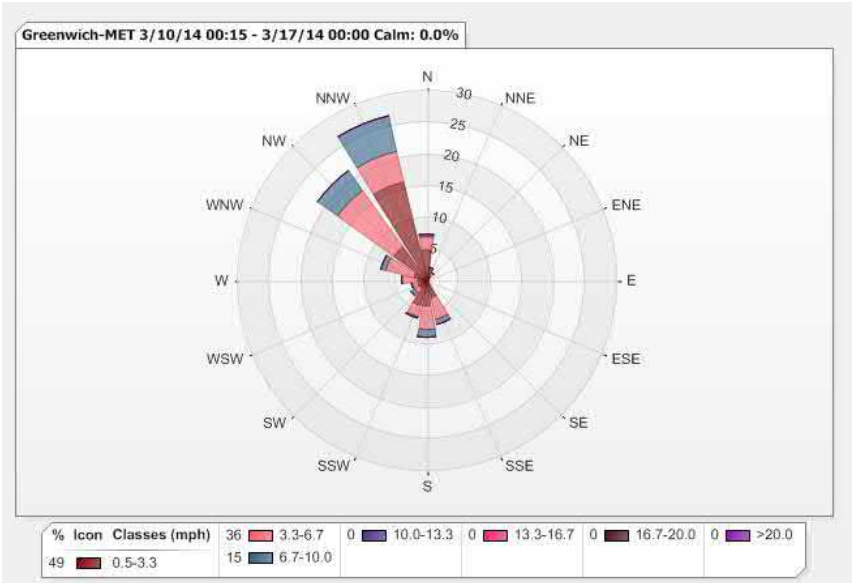
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

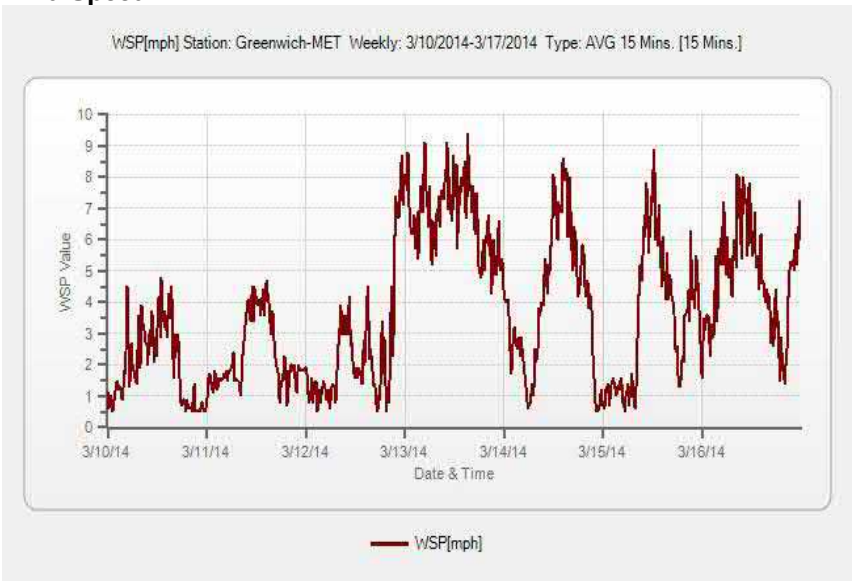
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (3/10/14 – 3/16/14)

Wind Rose:



Wind Speed:



Temperature:

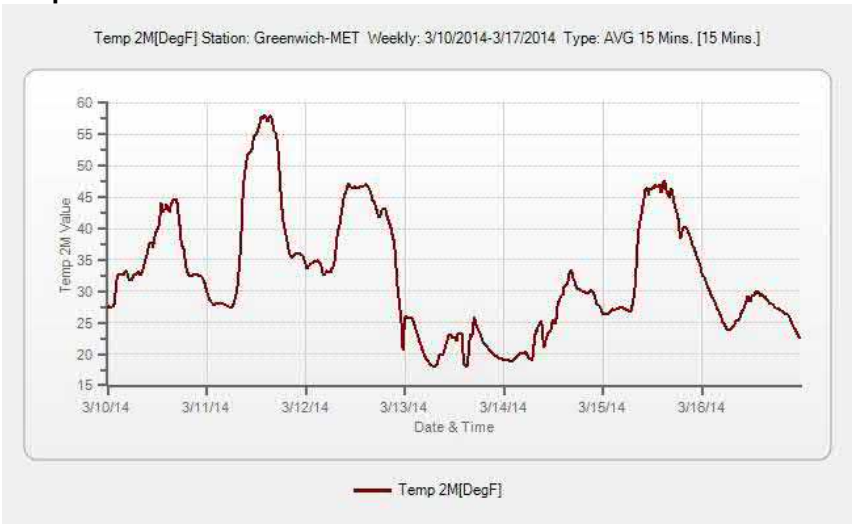


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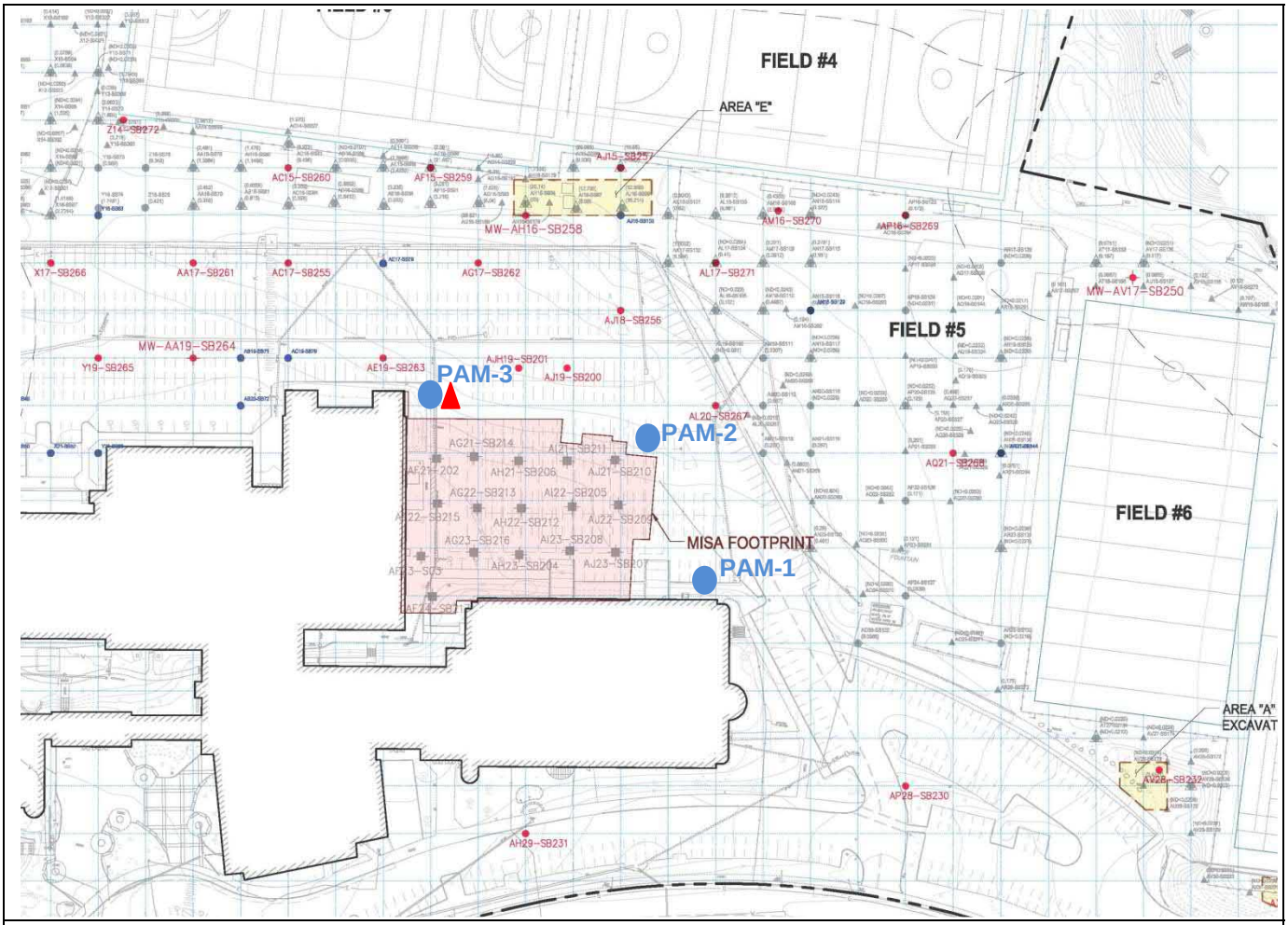
Figure 2: Site Map (3/10/14 – 3/16/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

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978.905.2101 fax

Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**3/17/14 – 3/23/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentrations greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 3/17/14	24.6	41.4	32.9	ND[1]
Tue 3/18/14	30.9	28.9	18.0	ND[1]
Wed 3/19/14	30.1	44.5	35.4	ND[1]
Thu 3/20/14	99.0	27.2	13.9	ND[1]
Fri 3/21/14	75.9	63.6	38.4	ND[1]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	Concentrations remained below the Action Level.

Definitions:

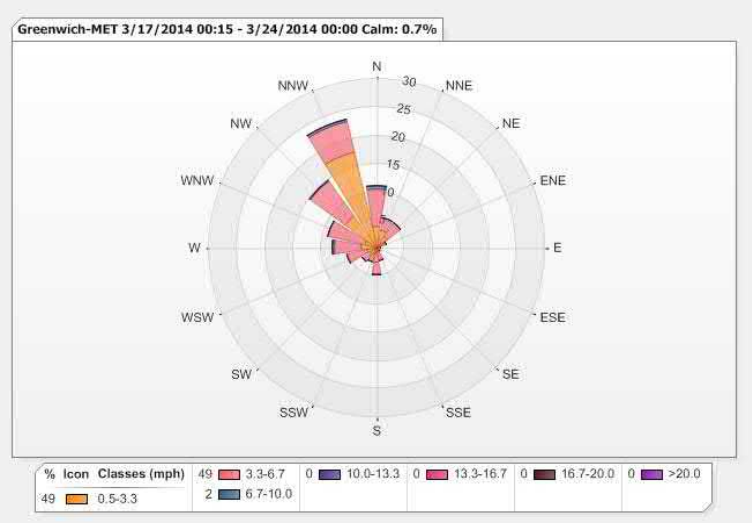
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

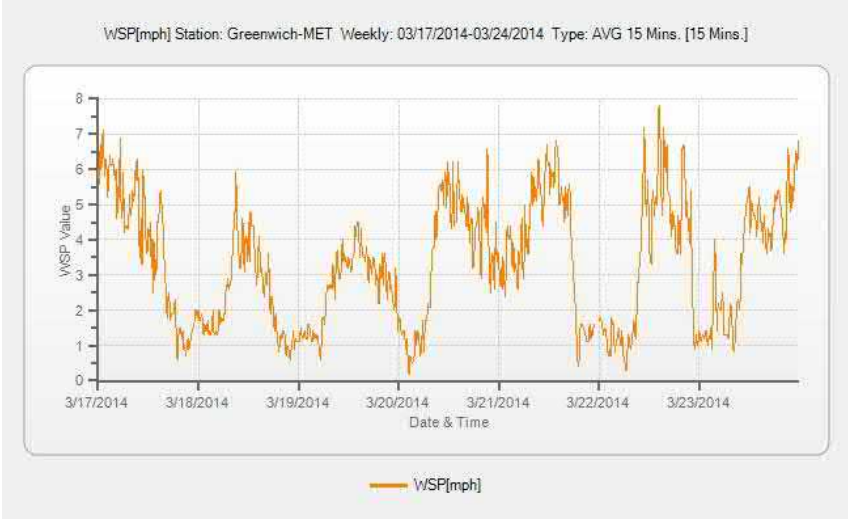
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (3/17/14 – 3/23/14)

Wind Rose:



Wind Speed:



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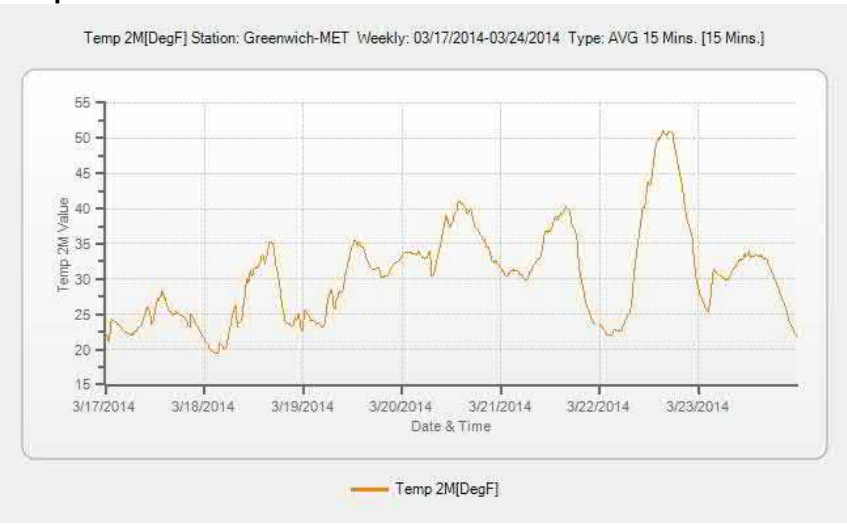

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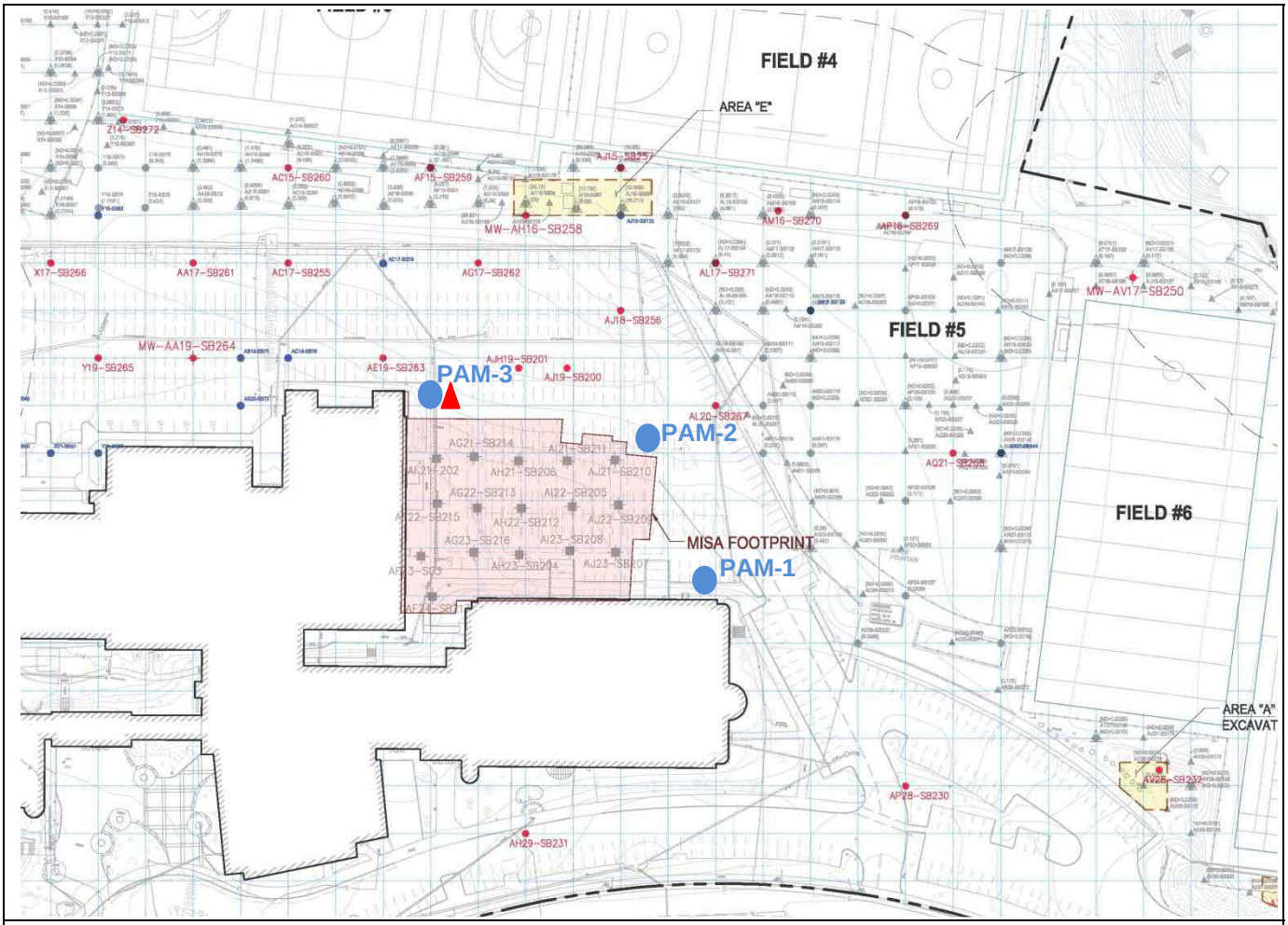
Figure 2: Site Map (3/17/14 – 3/23/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**3/24/14 – 3/30/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there was one PM_{10} concentration greater than the Action Level. The elevated concentration was evaluated and after performing background subtraction per PAMP guidelines, the elevated concentration fell below the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter

$\mu g/m^3$ = Micrograms per cubic meter

$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 3/24/14	54.4	13.6	23.4	ND[1]
Tue 3/25/14	179.9	49.0	39.8	ND[1]
Wed 3/26/14	31.7	93.0	104.6	ND[1]
Thu 3/27/14	140.2	117.0	125.7	ND[1]
Fri 3/28/14	72.4	43.9	38.9	ND[1]

Definitions:

PAM = Portable Air Monitoring Station

PM_{10} = Particulate Matter 10 micro meters or less

$\mu g/m^3$ = Micrograms per cubic meter

NA = Not Applicable

ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	Tues 3/25/14	2:15PM	PAM-1	SSE 4.6 mph	179.9	32.5	147.4	Elevated PM_{10} concentrations were caused by exhaust from a vehicle parked in close proximity to PAM-1.

Definitions:

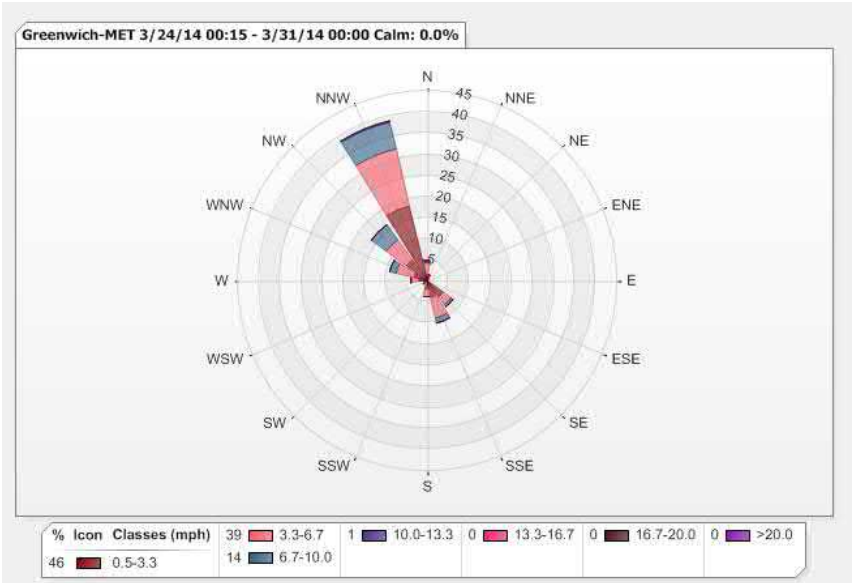
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

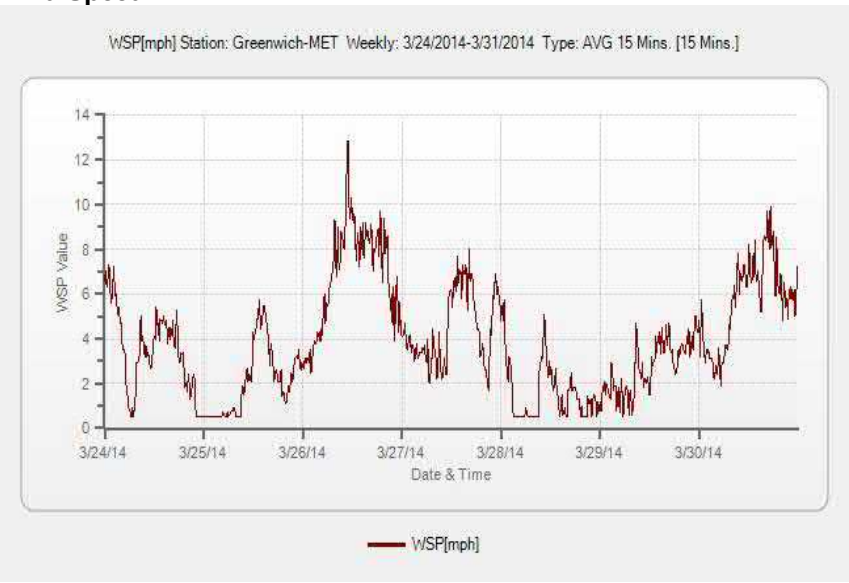
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (3/24/14 – 3/30/14)

Wind Rose:



Wind Speed:



Temperature:

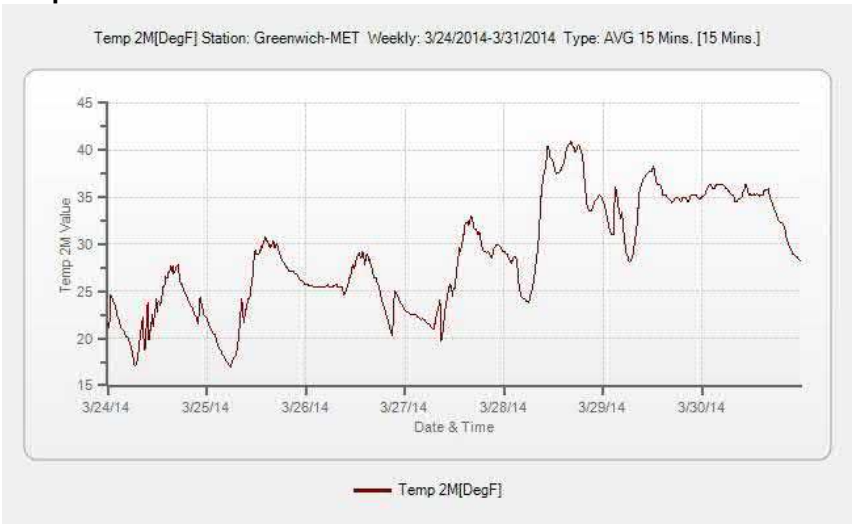


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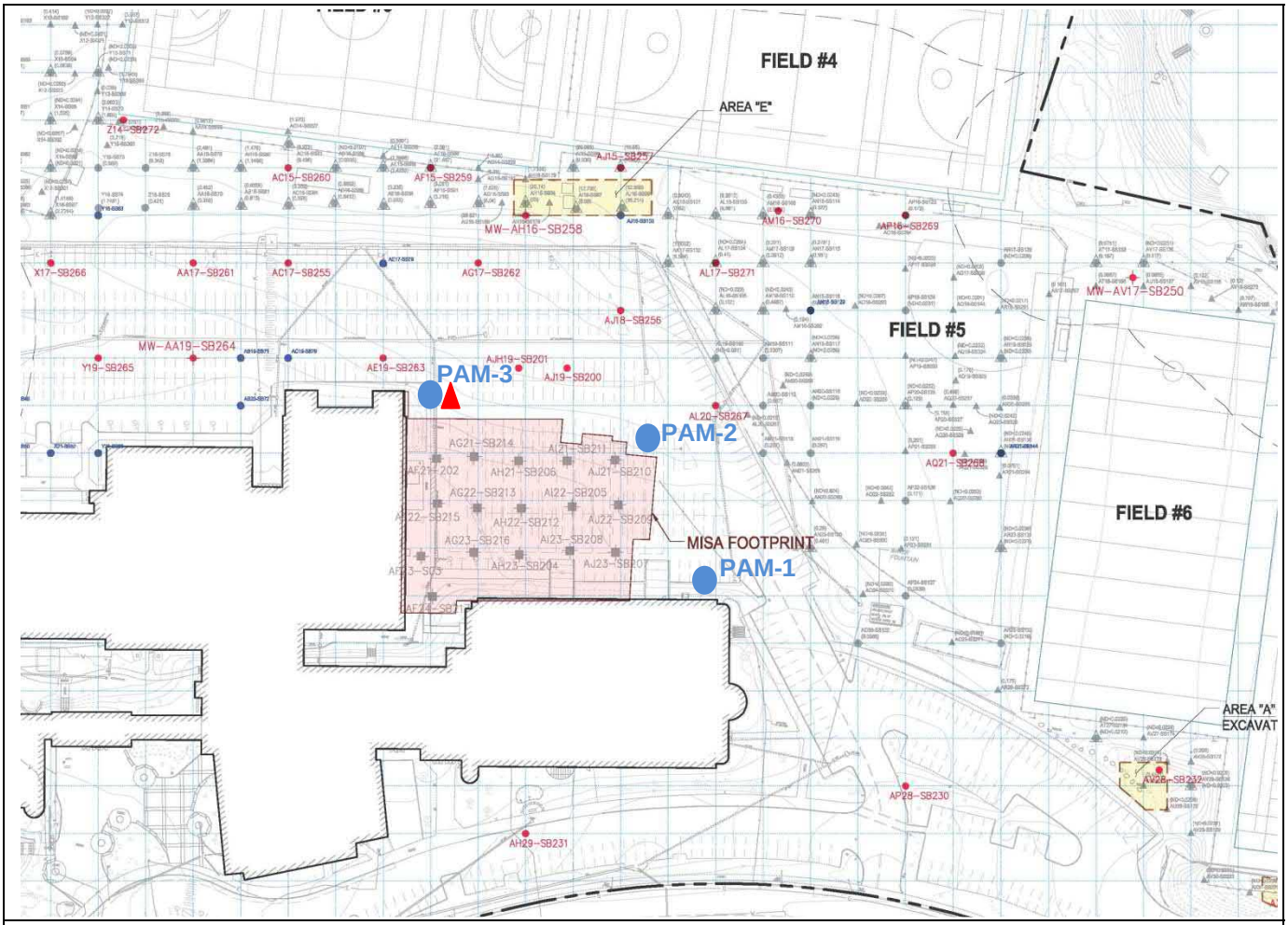
Figure 2: Site Map (3/24/14 – 3/30/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**3/31/14 – 4/6/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were two PM_{10} concentrations greater than the Action Level. The elevated concentrations were evaluated further and after performing background subtraction per PAMP guidelines, one of the elevated concentrations stayed above the Action Level and the second elevated concentration dropped below the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 3/31/14	52.3	9.7	12.8	ND[1]
Tue 4/1/14	231.1	46.0	39.7	ND[1]
Wed 4/2/14	110.6	53.1	64.8	ND[1]
Thu 4/3/14	147.3	120.9	71.0	ND[1]
Fri 4/4/14	50.8	39.5	22.8	ND[1]

Definitions:

PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrograms per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	Tue 4/1/14	2:00PM 3:00PM	PAM-1	SE 5.5 mph SE 4.8 mph	231.1 159.3	14.2 12.4	216.9 146.9	Elevated PM_{10} concentrations were caused by a combination of cleaning and rebar cutting activities in close proximity to PAM-1.

Definitions:

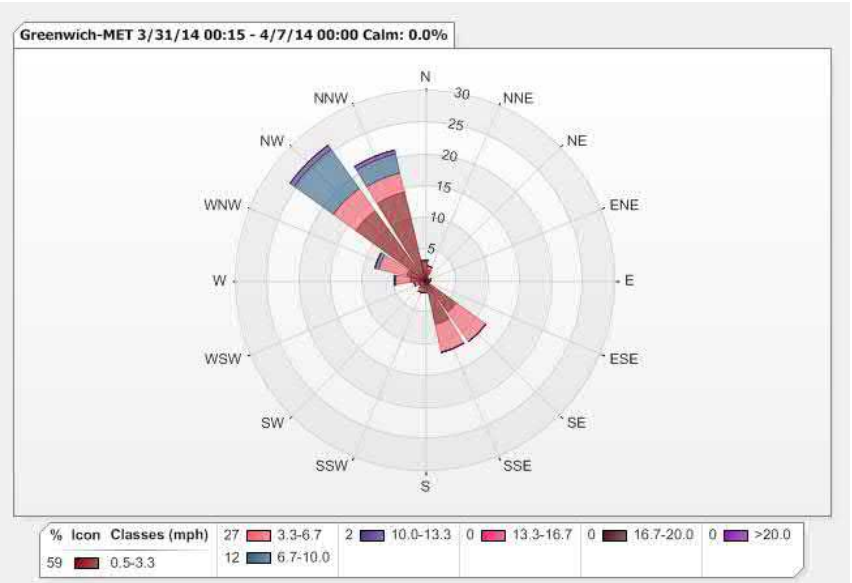
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

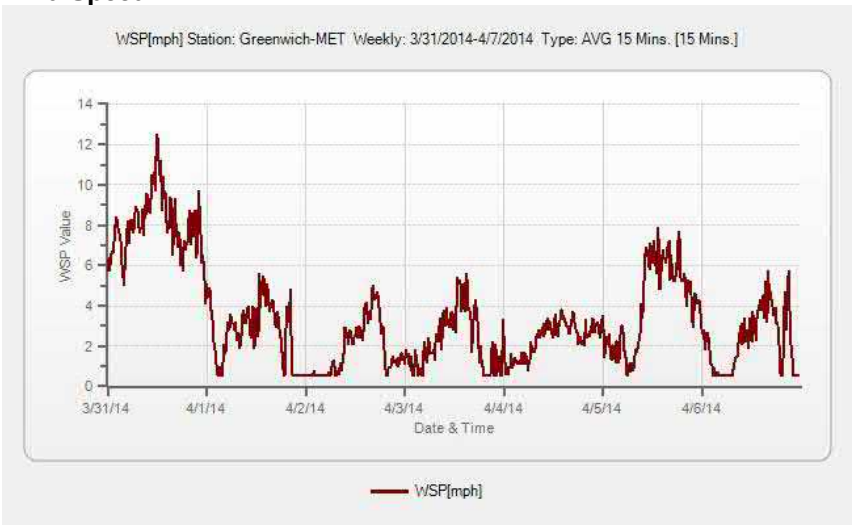
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (3/31/14 – 4/6/14)

Wind Rose:



Wind Speed:



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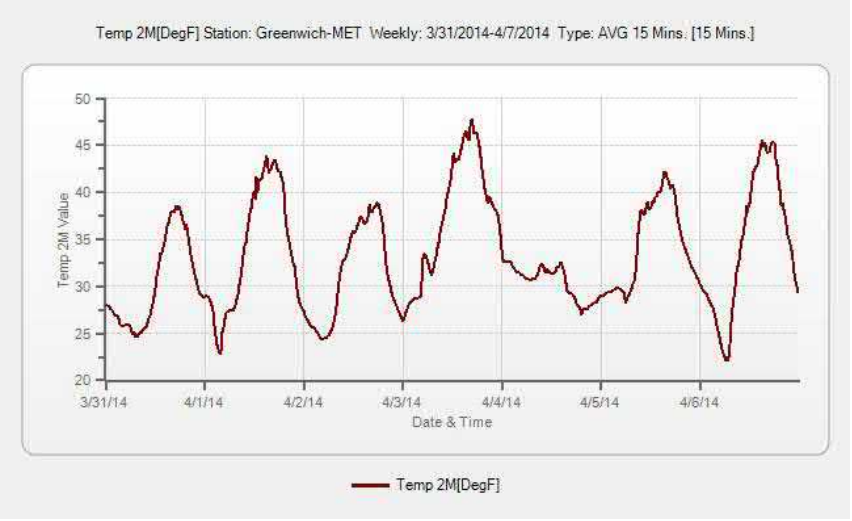

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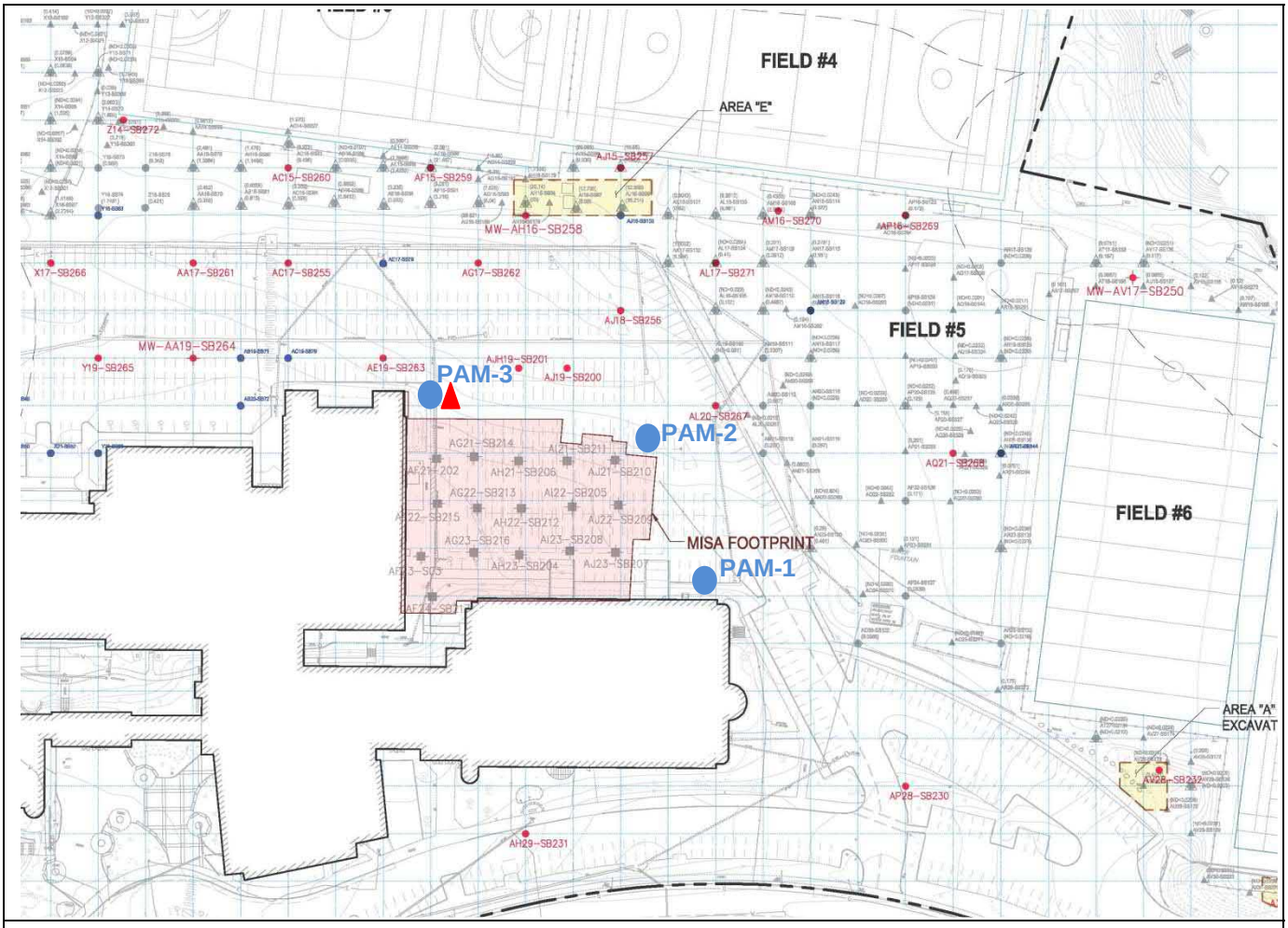
Figure 2: Site Map (3/31/14 – 4/6/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**4/7/14 – 4/13/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were several PM_{10} concentrations greater than the Action Level. The elevated concentrations were evaluated further and after performing background subtraction per PAMP guidelines, all of the elevated concentrations dropped below the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 4/7/14	257.2	113.3	132.1	ND[1]
Tue 4/8/14	92.3	52.2	80.2	ND[1]
Wed 4/9/14	89.4	156.2	48.8	ND[1]
Thu 4/10/14	76.2	40.5	35.3	ND[1]
Fri 4/11/14	81.2	68.4	62.2	ND[1]

Definitions:

PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrograms per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	Mon 4/7/14	11:45AM 12:00PM	PAM-1	VAR VAR	178.3 257.2	110.9 113.3	67.4 143.9	Elevated PM_{10} concentrations were caused by high regional background conditions (caused from an offsite forest fire located west of Atlantic City, NJ).
PM_{10}	Wed 4/9/14	2:15PM	PAM-2	WNW 4.7 mph	156.2	48.8	107.4	Elevated concentration was caused by general site activities

Definitions:

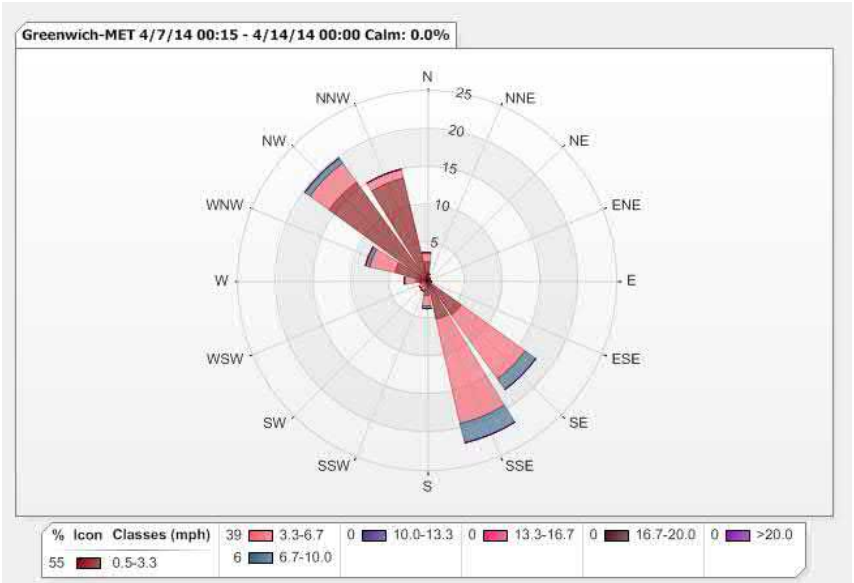
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

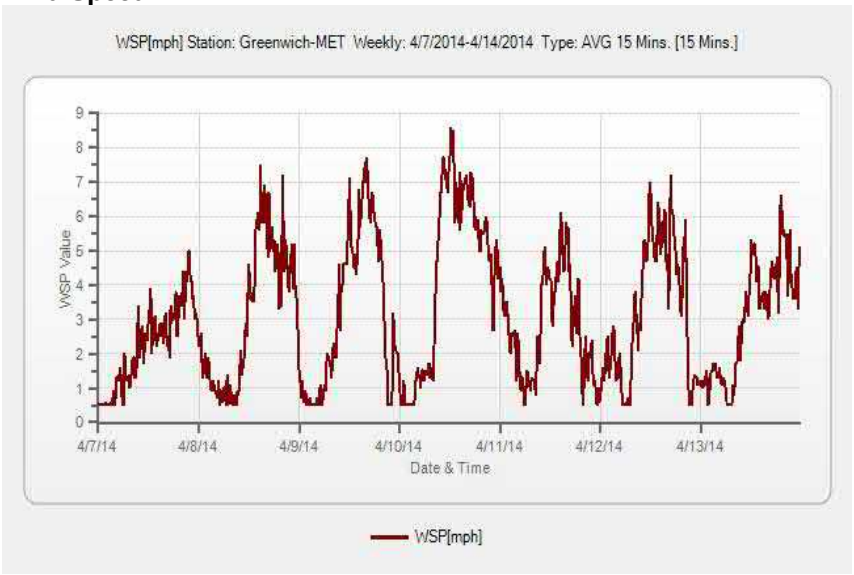
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (4/7/14 – 4/13/14)

Wind Rose:



Wind Speed:



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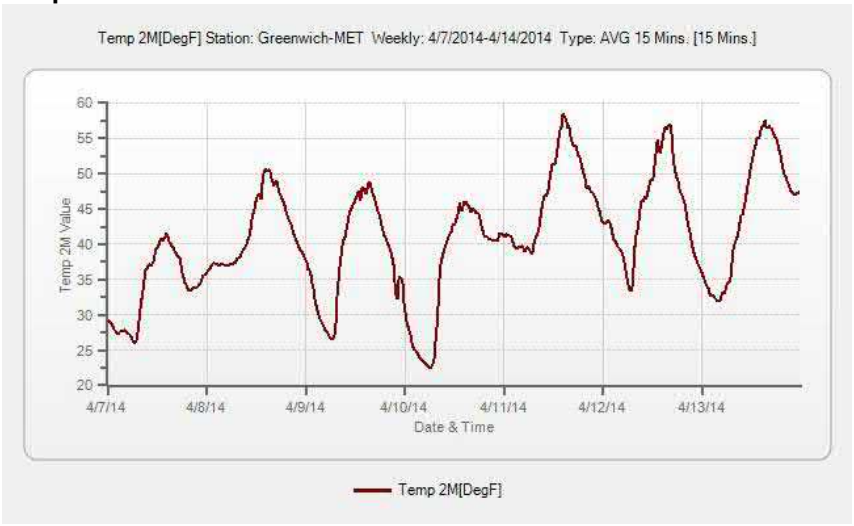

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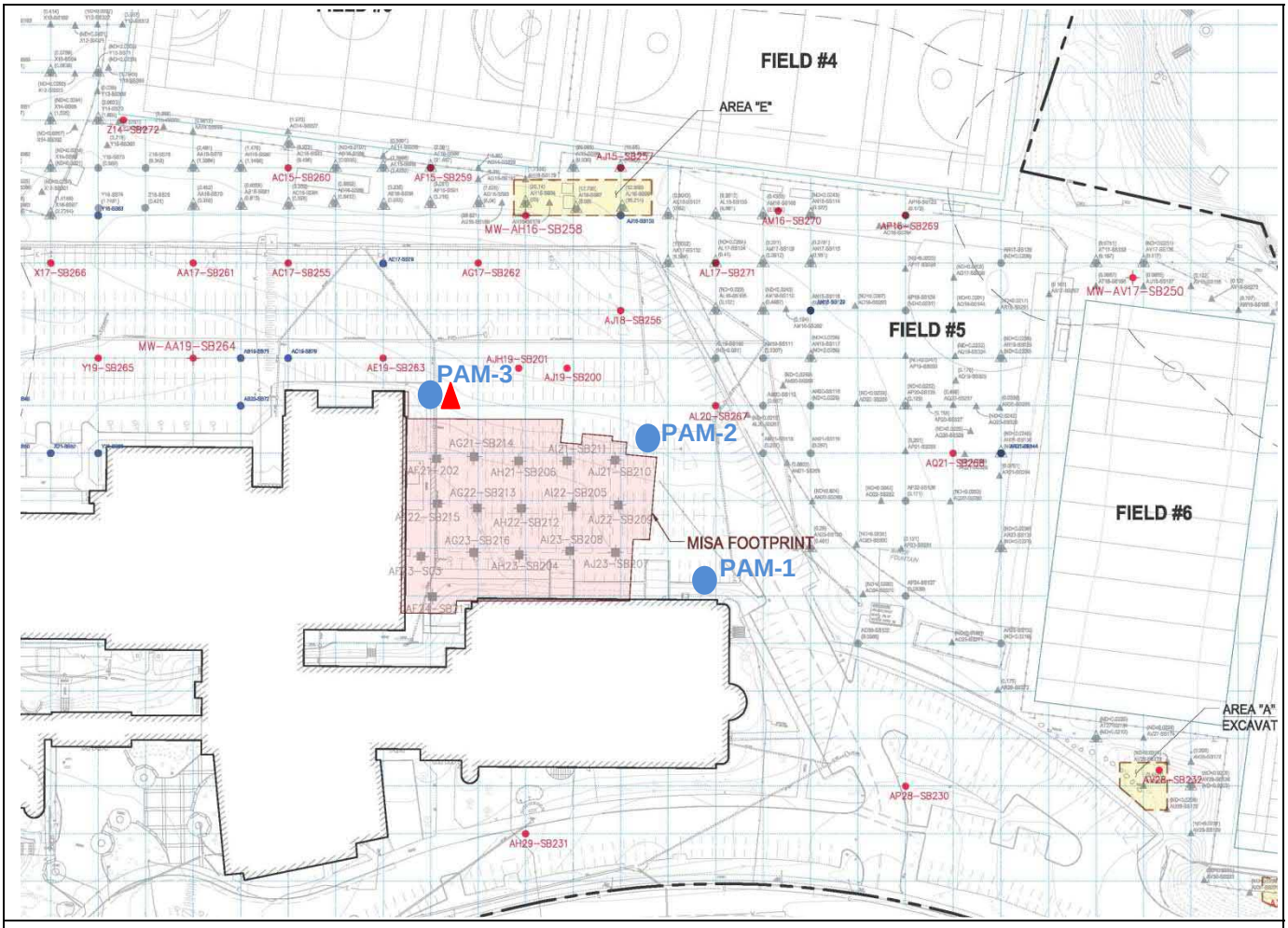
Figure 2: Site Map (4/7/14 – 4/13/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**5/5/14 – 5/11/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentrations greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 5/5/14	12.1	24.3	37.6	ND[1]
Tue 5/6/14	20.1	27.6	44.7	ND[1]
Wed 5/7/14	100.7	63.5	73.4	ND[1]
Thu 5/8/14	50.3	50.0	58.9	ND[1]
Fri 5/9/14	43.6	44.4	66.4	ND[1]

Definitions:

PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrograms per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	Concentrations remained below the Action Level.

Definitions:

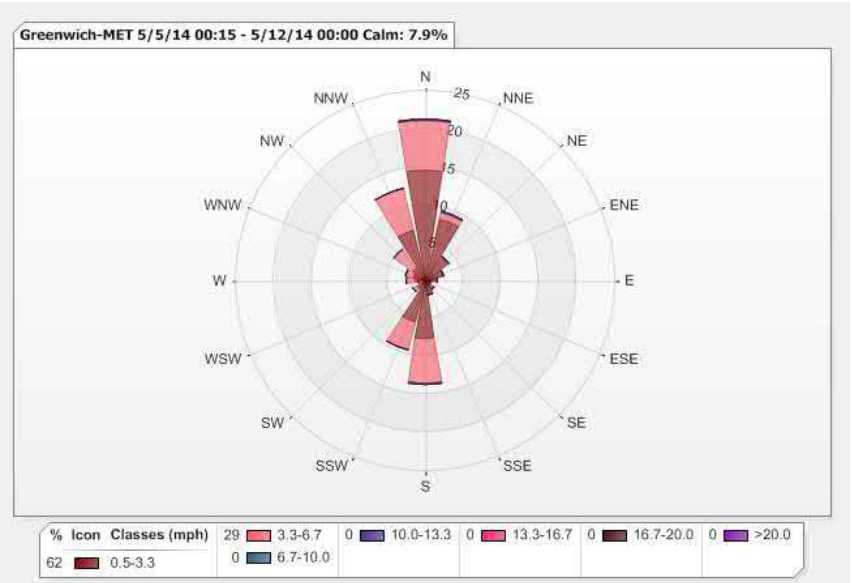
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

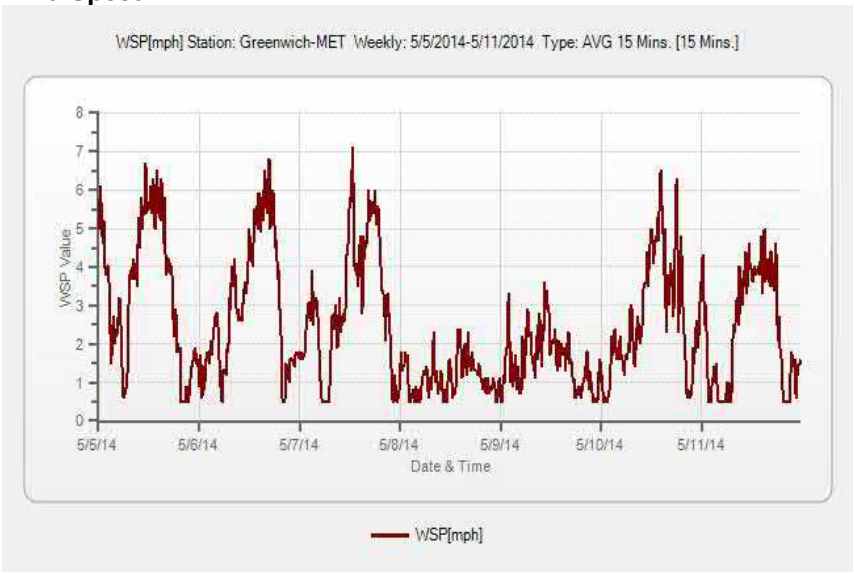
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (5/5/14 – 5/11/14)

Wind Rose:



Wind Speed:



Temperature:

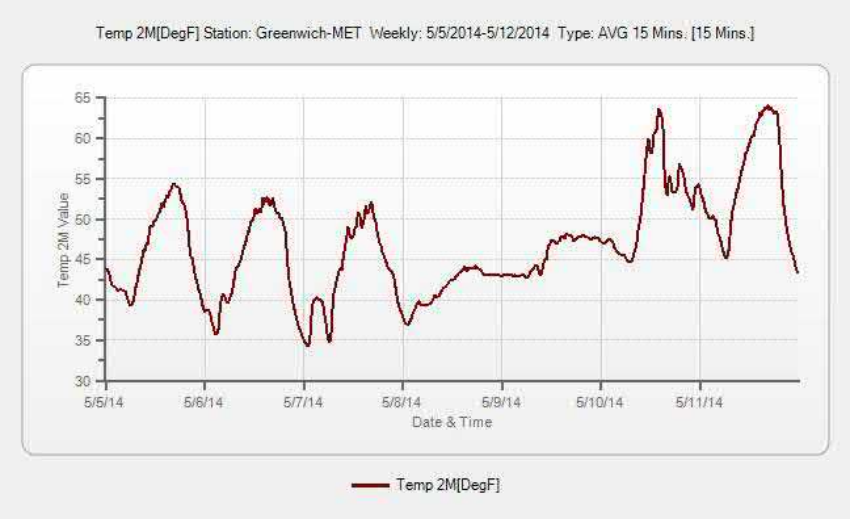
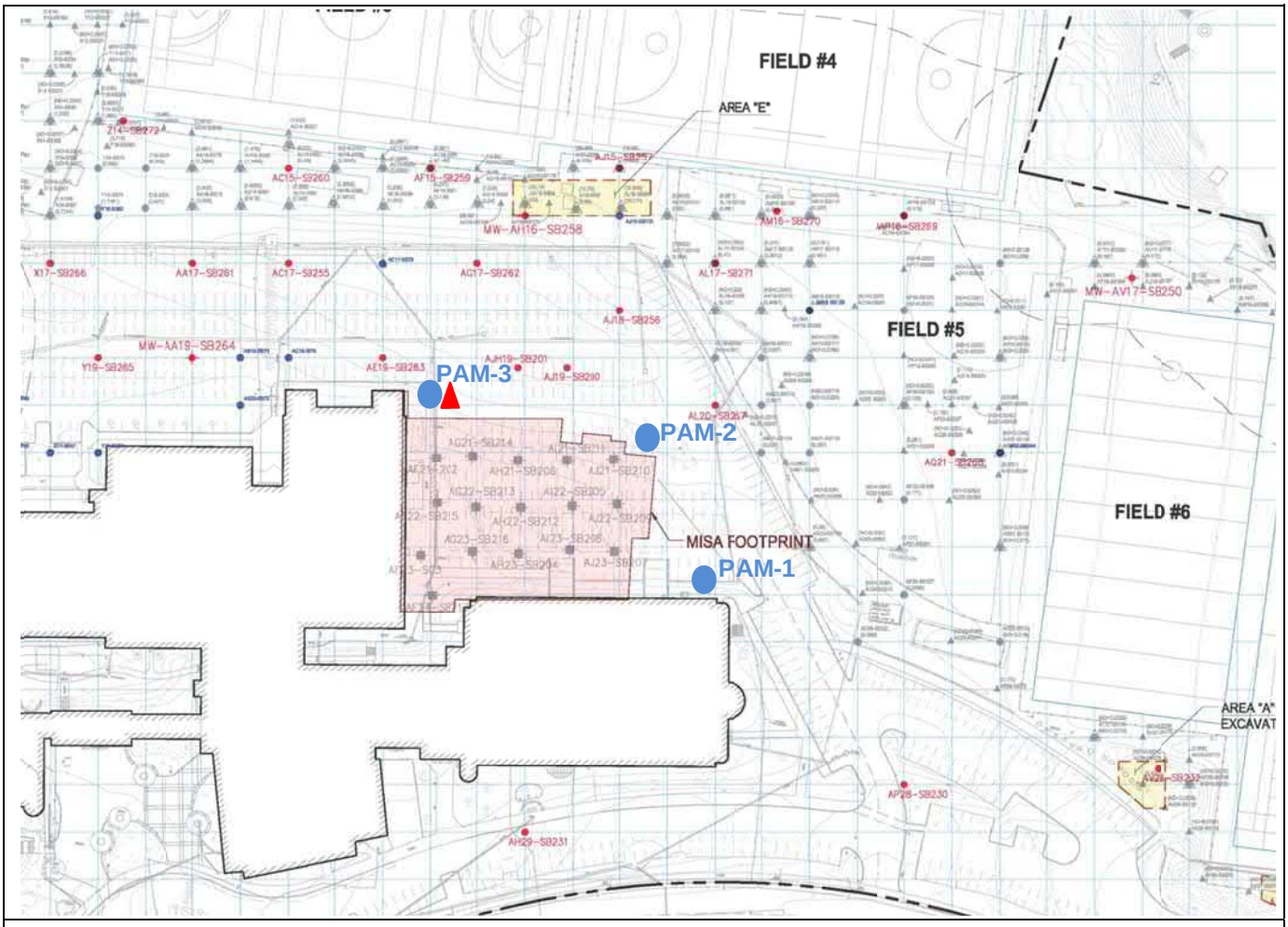


Figure 2: Site Map (5/5/14 – 5/11/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**5/12/14 – 5/18/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were no PM_{10} concentrations greater than the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 5/12/14	92.5	49.3	43.3	ND[1]
Tue 5/13/14	51.5	50.3	38.9	ND[1]
Wed 5/14/14	58.3	65.8	47.6	ND[1]
Thu 5/15/14	60.5	59.6	60.0	ND[1]
Fri 5/16/14	94.9	39.1	37.0	ND[1]

Definitions:

PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrograms per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	NA	NA	NA	NA	NA	NA	NA	Concentrations remained below the Action Level.

Definitions:

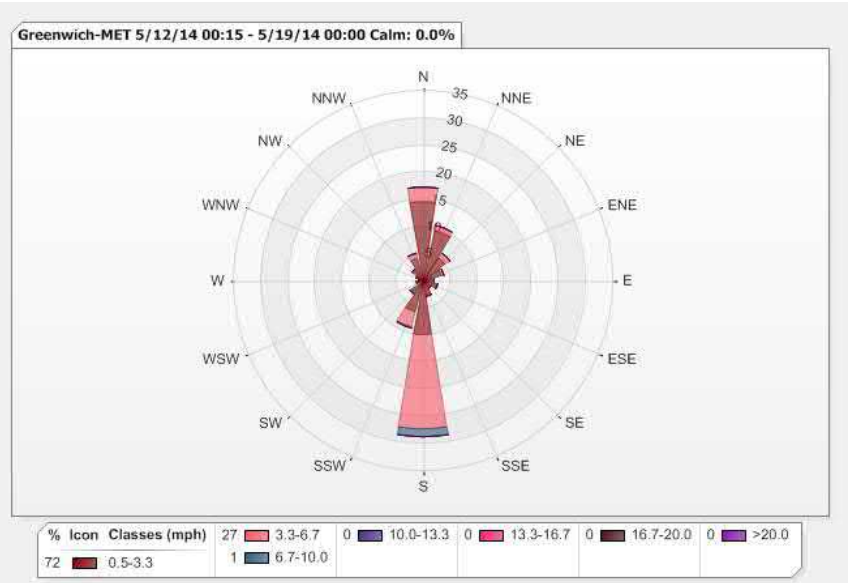
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

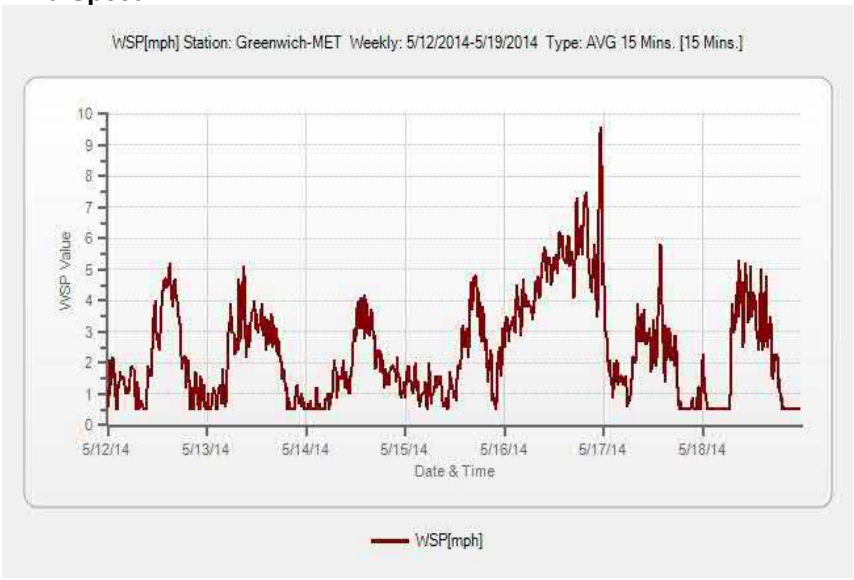
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (5/12/14 – 5/18/14)

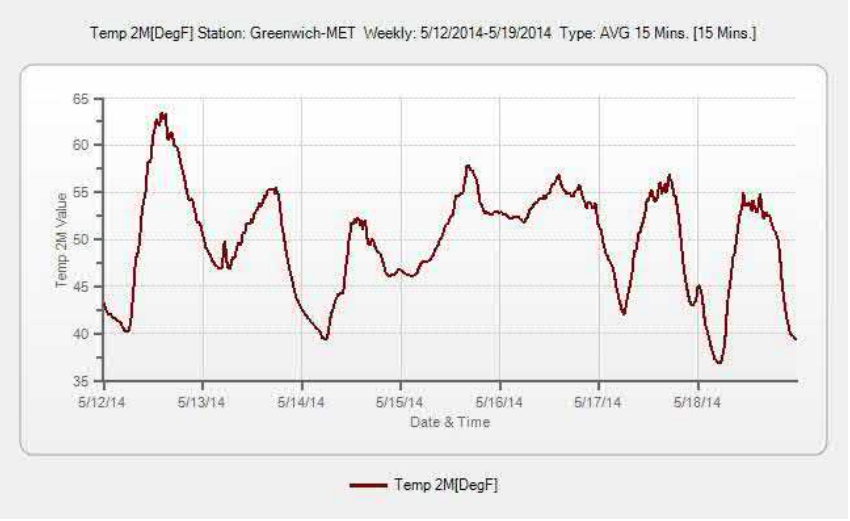
Wind Rose:



Wind Speed:

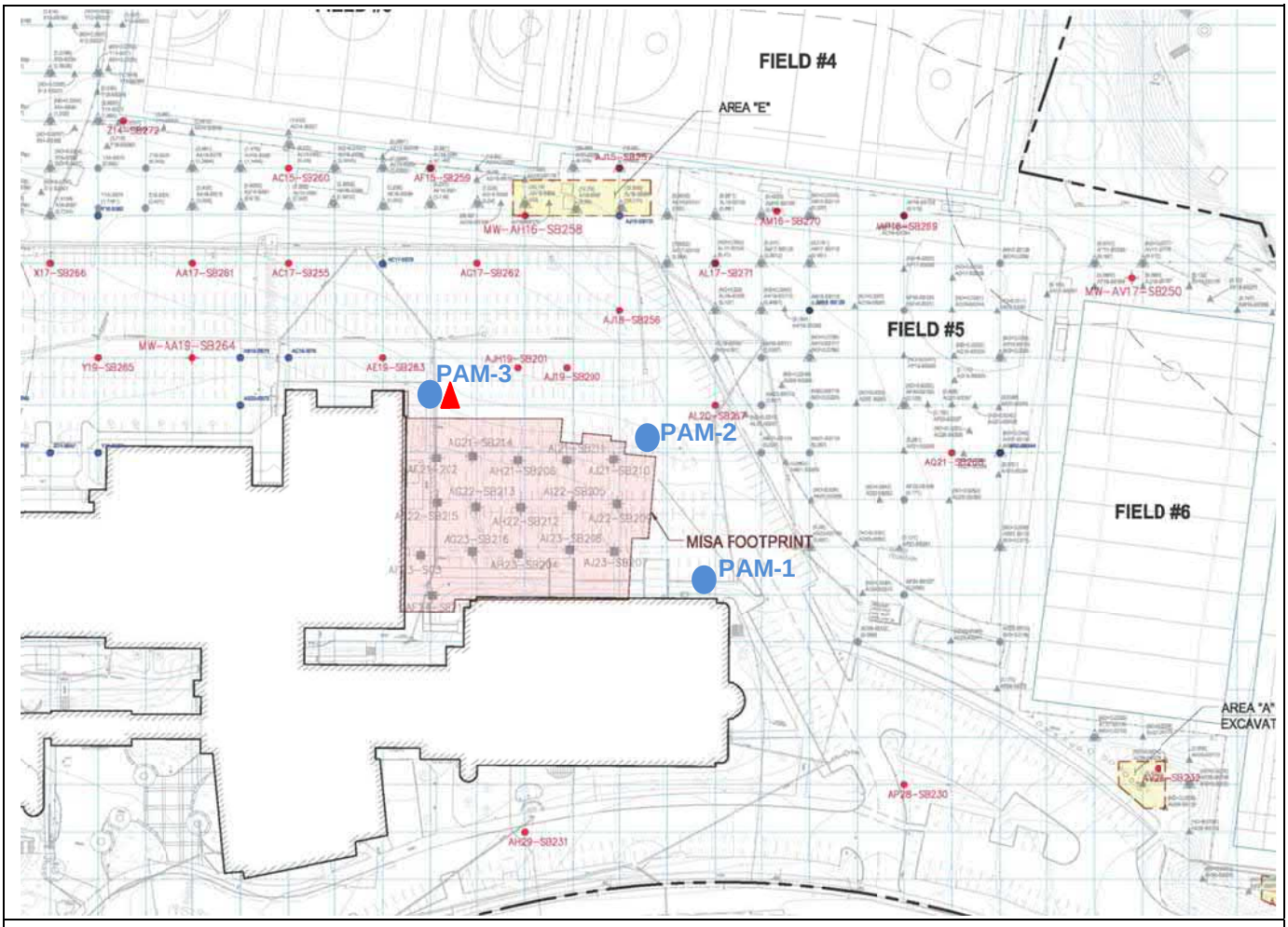


Temperature*:



*Temperature data found to be running slightly low during the day. However, overnight temperatures match well with regional weather conditions. AECOM suspects that there is an issue with the sensor and aspirator.

Figure 2: Site Map (5/12/14 – 5/18/14)



Legend:

- PAM – Portable Air Monitoring Station
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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**8/4/14 – 8/10/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were several PM_{10} concentrations greater than the Action Level. The elevated concentrations were evaluated further and after performing background subtraction per PAMP guidelines, several of the elevated concentrations remained above the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 8/4/14	217.3	53.5	159.7	ND[1]
Tue 8/5/14	241.9	157.5	116.4	ND[1]
Wed 8/6/14	93.0	117.8	127.0	ND[1]
Thu 8/7/14	120.8	84.7	189.8	ND[1]
Fri 8/8/14	98.6	80.1	167.8	ND[1]

Definitions:

PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrograms per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	Mon 8/4/14	9:00AM 1:15PM 2:00PM	PAM-1	WSW - S 2.3 mph - 4.9 mph	180.4 217.3 187.8	35.2 49.9 36.7	145.2 167.4 151.1	Elevated concentrations were caused by handling of masonry materials and loading of silos.
PM_{10}	Mon 8/4/14	11:15AM	PAM-3	N 3.2 mph	159.7	20.0	139.7	Elevated concentrations were caused by construction vehicle traffic across site.
PM_{10}	Tues 8/5/14	10:30AM 1:15PM 1:45PM	PAM-1	S - SSW 2.6 mph – 5.1 mph	211.9 173.9 241.9	58.8 59.9 96.7	153.1 114.0 145.2	Elevated concentrations were caused by handling of masonry materials and loading of silos.
PM_{10}	Tues 8/5/14	1:45PM	PAM-2	S 4.9 mph	157.5	96.7	60.8	Elevated concentrations were caused by construction vehicle traffic across site.
PM_{10}	Thurs 8/7/14	1:30PM	PAM-3	NNW 4.3 mph	189.9	27.7	162.2	Elevated concentrations were caused by construction vehicle traffic across site.
PM_{10}	Fri 8/8/14	8:30AM 9:30AM	PAM-3	WNW 2.7 mph N 2.8 mph	167.8 154.5	21.7 31.6	146.1 122.9	Elevated concentrations were caused by construction vehicle traffic across site.

Definitions:

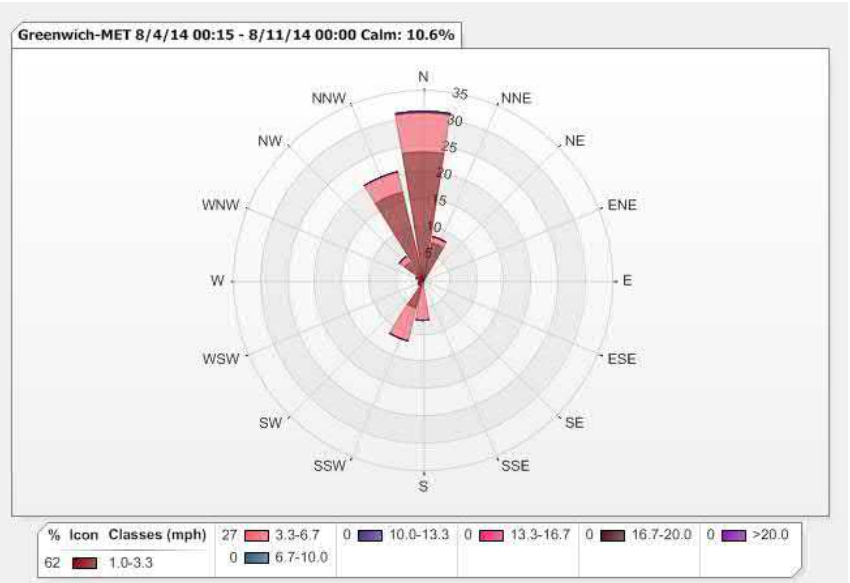
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

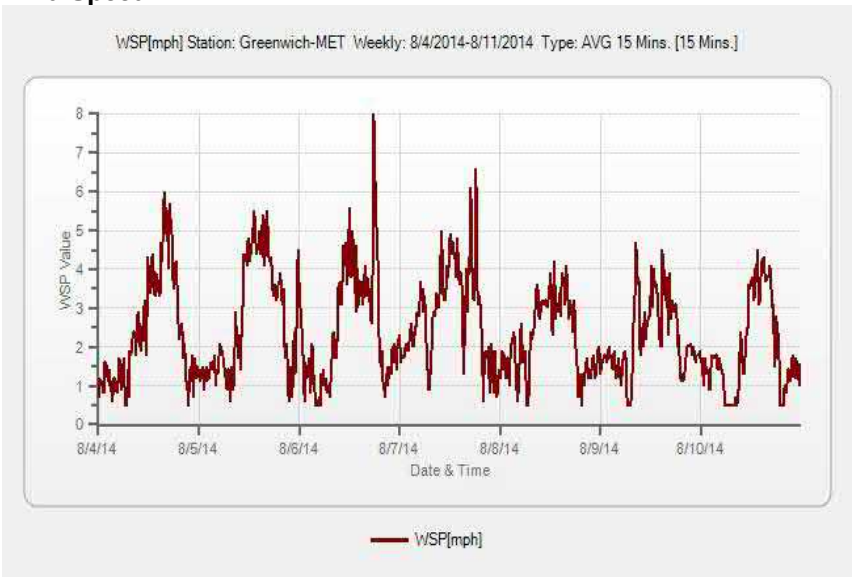
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (8/4/14 – 8/10/14)

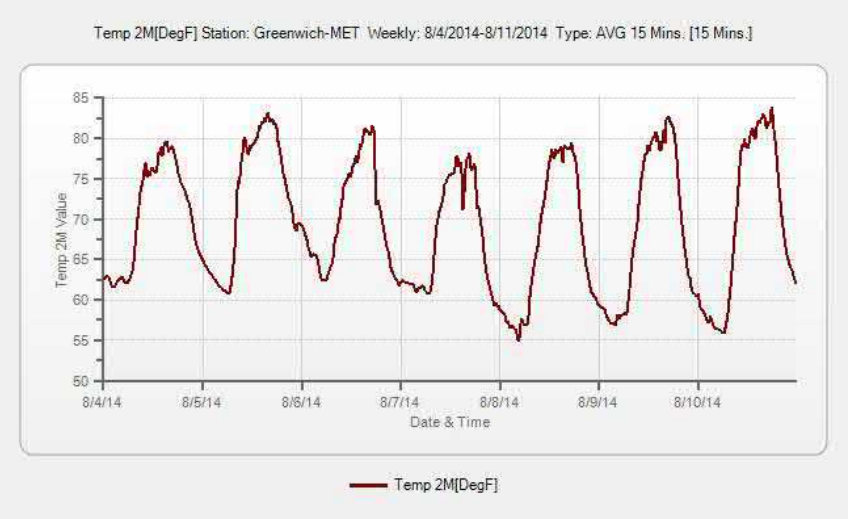
Wind Rose:



Wind Speed:

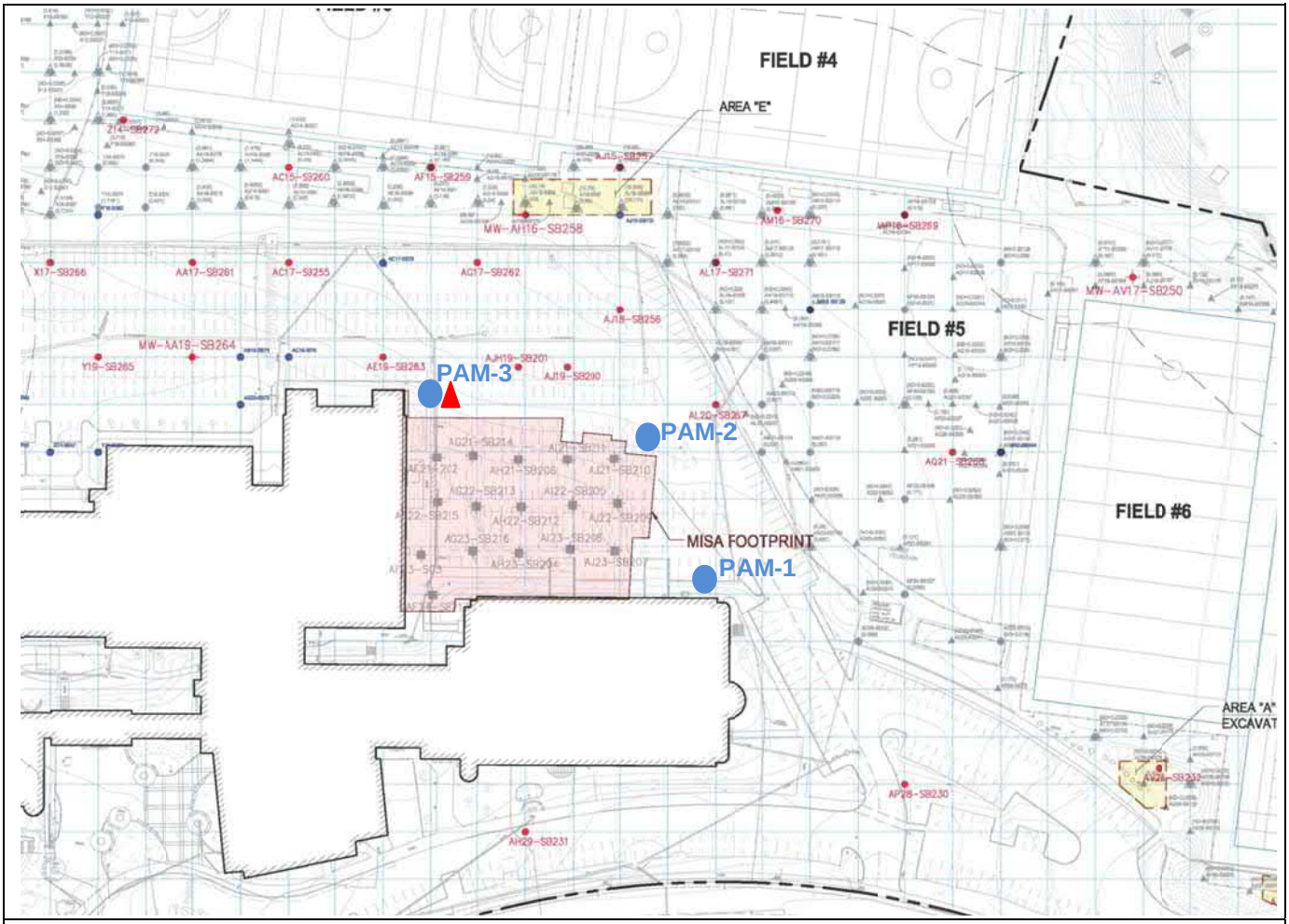


Temperature*:



*Temperature data found to be running slightly low during the day. However, overnight temperatures match well with regional weather conditions. AECOM suspects that there is an issue with the sensor and aspirator.

Figure 2: Site Map (8/4/14 – 8/10/14)



Legend:

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**8/11/14 – 8/17/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were several PM_{10} concentrations greater than the Action Level. The elevated concentrations were evaluated further and after performing background subtraction per PAMP guidelines, several of the elevated concentrations remained above the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2 and 3**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 8/11/14	284.3	238.9	136.3	ND[1]
Tue 8/12/14	341.0	302.9	449.0	ND[1]
Wed 8/13/14	23.3	29.5	55.6	ND[1]
Thu 8/14/14	77.7	124.5	94.8	ND[1]
Fri 8/15/14	117.8	187.1	129.3	ND[1]

Definitions:

PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrograms per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	Mon 8/11/14	10:00AM 1:15PM	PAM-1	SSW 2.8 mph - 4.2 mph	284.3 181.8	39.0 81.2	245.3 100.6	Elevated concentrations were caused by a combination of handling masonry materials and vehicle traffic along the perimeter of the worksite.
PM_{10}	Mon 8/11/14	2:15PM	PAM-2	SSW 4.7 mph	238.9	97.3	141.6	Elevated concentrations were caused by vehicle traffic along the perimeter of the worksite.
PM_{10}	Tue 8/12/14	8:15AM 11:45AM 12:00PM 12:15PM	PAM-3	NW- SSW 1.2 mph – 5.1 mph	198.8 266.0 340.4 449.0	73.7 100.0 108.5 120.7	125.1 166.0 231.9 328.3	Elevated concentrations were caused by vehicle traffic along the perimeter of the worksite.
PM_{10}	Tue 8/12/14	8:45AM	PAM-1	SSW 2.3 mph	341.0	19.4	321.6	Elevated concentrations were caused by a combination of handling masonry materials and vehicle traffic along the perimeter of the worksite.
PM_{10}	Tue 8/12/14	11:00AM 11:15AM 11:30AM 11:45AM 12:00PM 12:15PM 1:45PM	PAM-2	SSW 5.3 mph - 4.2 mph	188.1 191.3 191.7 237.9 302.9 258.4 194.3	66.6 85.7 88.1 100.0 108.5 120.7 66.1	121.5 105.6 103.6 137.9 194.4 137.7 128.2	Elevated concentrations were caused by vehicle traffic along the perimeter of the worksite.
PM_{10}	Fri 8/15/14	10:30AM 11:30AM 12:00PM 12:15PM	PAM-2	WSW - N 3.0 mph – 4.2 mph	164.8 179.6 187.1 157.3	31.6 70.0 39.7 19.5	133.2 109.6 147.4 137.8	Elevated concentrations were caused by vehicle traffic along the perimeter of the worksite.

Definitions:

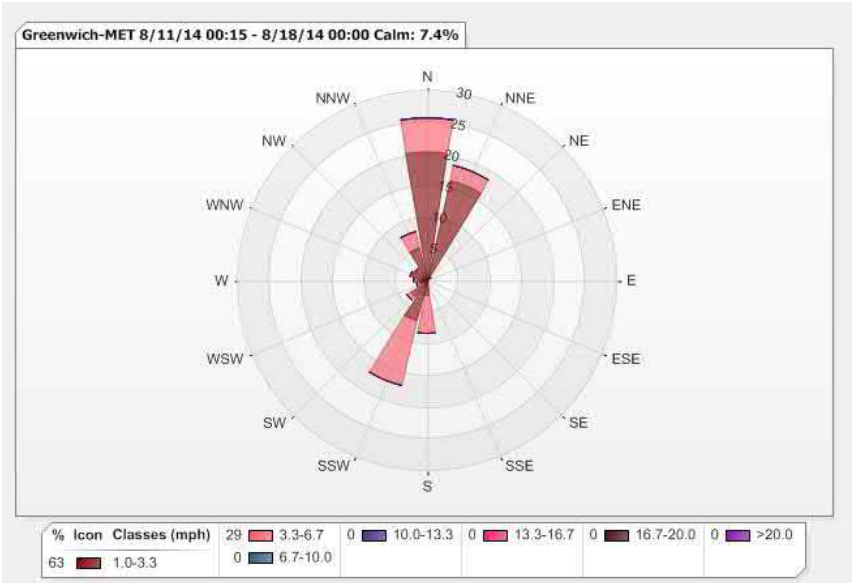
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

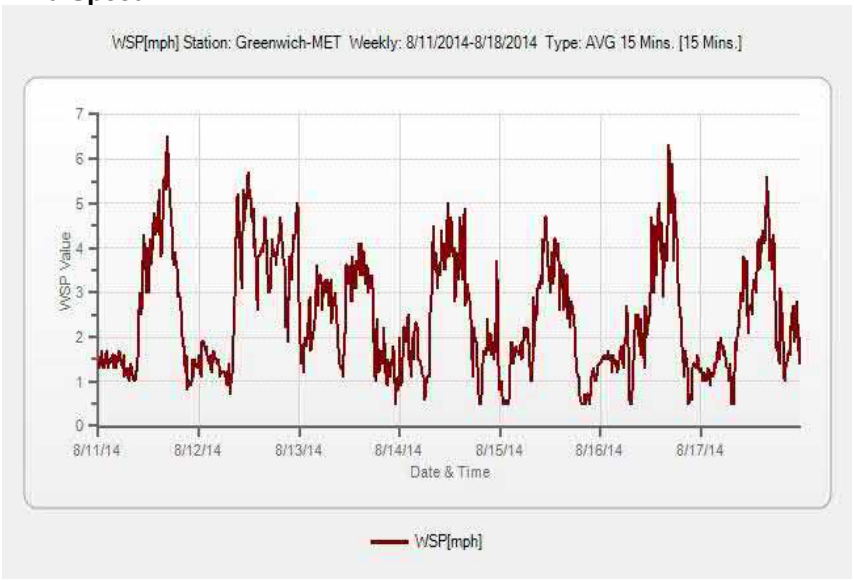
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (8/11/14 – 8/17/14)

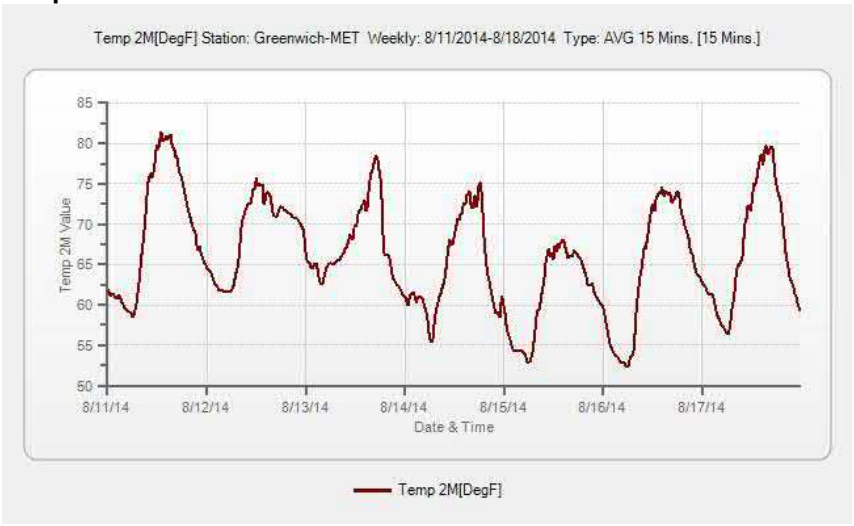
Wind Rose:



Wind Speed:

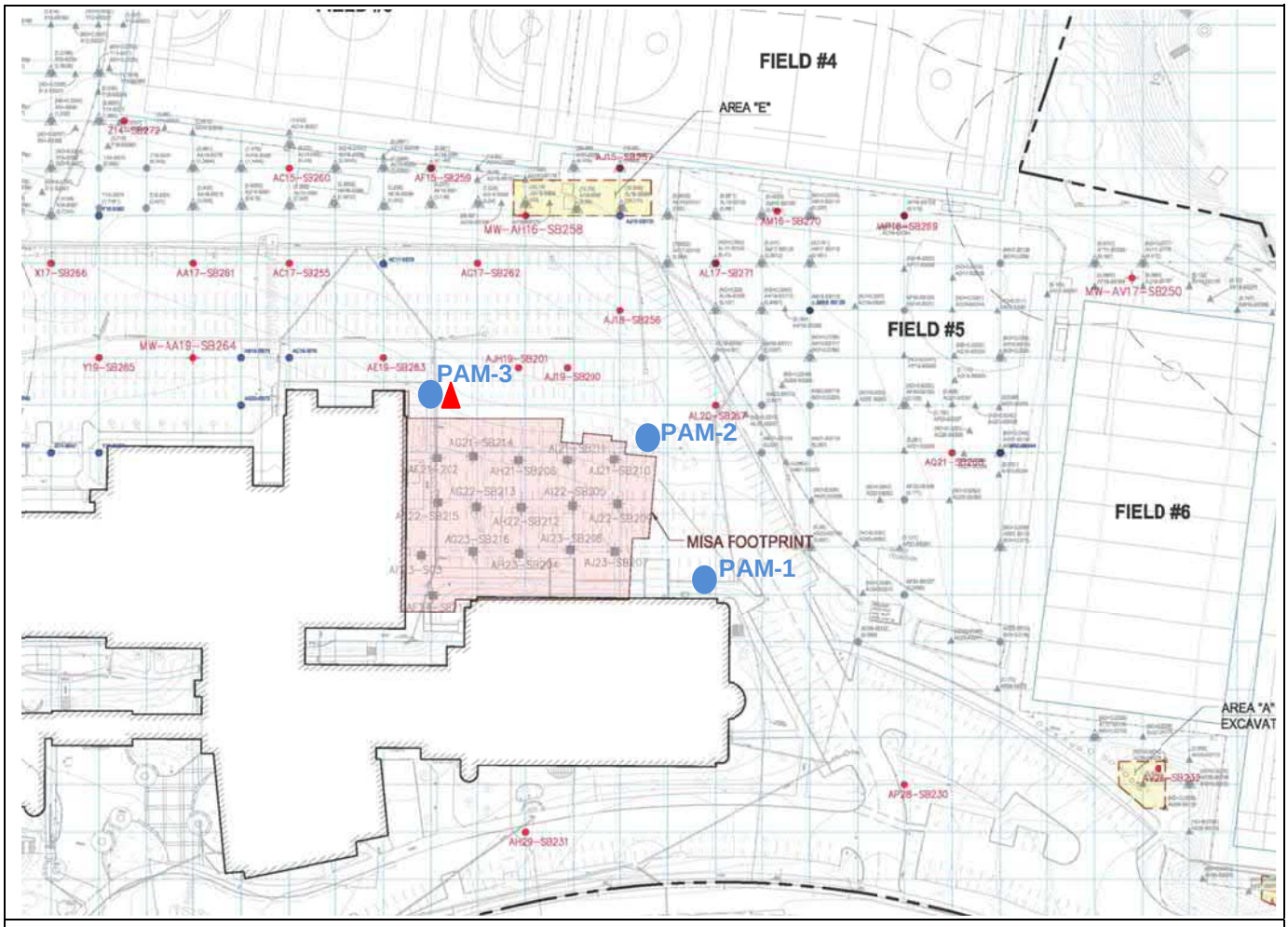


Temperature*:



*Temperature data found to be running slightly low during the day. However, overnight temperatures match well with regional weather conditions. AECOM suspects that there is an issue with the sensor and aspirator.

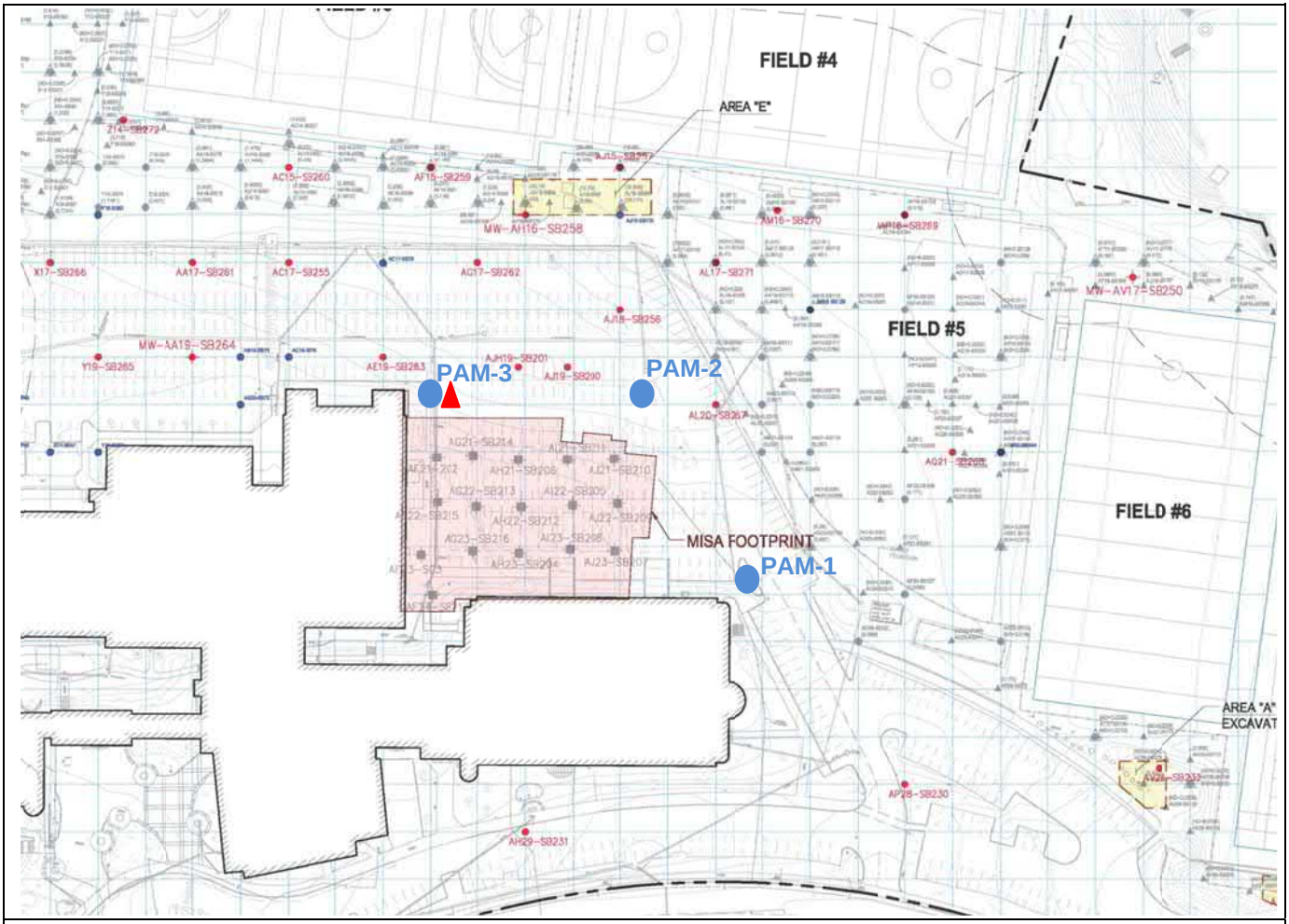
Figure 2: Site Map (8/11/14 – 8/13/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

Figure 3: Site Map (8/14/14 – 8/17/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**8/18/14 – 8/24/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were several PM_{10} concentrations greater than the Action Level. The elevated concentrations were evaluated further and after performing background subtraction per PAMP guidelines, several of the elevated concentrations remained above the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 8/18/14	127.4	158.2	115.1	ND[1]
Tue 8/19/14	422.0	151.1	176.2	ND[1]
Wed 8/20/14	298.9	509.4	207.7	ND[1]
Thu 8/21/14	305.4	254.4	62.8	ND[1]
Fri 8/22/14	245.1	137.9	537.6	ND[1]

Definitions:

PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrograms per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	Mon 8/18/14	11:30AM 3:00PM	PAM-2	N 2.7 mph NNW 3.9 mph	158.2 151.5	46.5 72.7	111.7 78.8	Elevated concentrations were caused by vehicle traffic along the perimeter of the worksite.
PM_{10}	Tue 8/19/14	7:45AM 9:45AM 10:15AM 10:30AM	PAM-1	Light & Variable	326.6 422.0 263.7 397.6	41.4 68.9 29.9 23.3	285.2 353.1 233.8 374.3	Elevated concentrations were caused by a combination of handling masonry materials and vehicle traffic along the perimeter of the worksite.
PM_{10}	Tue 8/19/14	8:15AM	PAM-3	Light & Variable	176.2	26.7	149.5	Elevated concentrations were caused by vehicle traffic along the perimeter of the worksite.
PM_{10}	Tue 8/19/14	10:45AM	PAM-2	NNE 5.0 mph	151.1	40.7	110.4	Elevated concentrations were caused by vehicle traffic along the perimeter of the worksite.
PM_{10}	Wed 8/20/14	9:30AM	PAM-3	Light & Variable	207.7	41.9	165.8	Elevated concentrations were caused by vehicle traffic along the perimeter of the worksite.
PM_{10}	Wed 8/20/14	10:15AM 12:15PM 1:30PM 2:00PM 2:15PM 2:30PM 2:45PM	PAM-1	Light & Variable	174.4 164.1 203.3 155.1 298.9 206.4 234.5	38.8 22.9 33.3 34.3 60.2 51.6 82.9	135.6 141.2 170.0 120.8 238.7 154.8 151.6	Elevated concentrations were caused by a combination of handling masonry materials and vehicle traffic along the perimeter of the worksite.
PM_{10}	Wed 8/20/14	2:00PM 2:30PM 2:45PM	PAM-2	Light & Variable	282.7 175.9 509.4	34.3 51.6 82.9	248.4 124.3 426.5	Elevated concentrations were caused by vehicle traffic along the perimeter of the worksite.

Definitions:

PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Table 3: Concentrations above the Action Level (Continued)

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	Thu 8/21/14	10:00AM	PAM-1	Light & Variable	275.6	22.8	252.8	Elevated concentrations were caused by a combination of handling masonry materials and vehicle traffic along the perimeter of the worksite.
		12:00PM			254.4	24.5	229.9	
		12:30PM			305.4	26.0	279.4	
		1:15PM			196.3	47.3	149.0	
		1:30PM			187.7	29.8	157.9	
		2:00PM			166.7	29.5	137.2	
PM_{10}	Thu 8/21/14	10:15AM	PAM-2	Light & Variable	159.3	27.8	131.5	Elevated concentrations were caused by vehicle traffic along the perimeter of the worksite.
		10:30AM			254.4	32.3	222.1	
PM_{10}	Fri 8/22/14	10:00AM	PAM-1	Light & Variable	199.7	13.3	186.4	Elevated concentrations were caused by a combination of handling masonry materials and vehicle traffic along the perimeter of the worksite.
		11:15AM			206.4	29.7	176.7	
		11:45AM			161.0	20.3	140.7	
		12:15PM			164.2	30.3	133.9	
		12:30PM			245.1	24.3	220.8	
PM_{10}	Fri 8/22/14	9:00AM	PAM-3	Light & Variable	150.7	11.0	139.7	Elevated concentrations were caused by vehicle traffic along the perimeter of the worksite.
		9:15AM			537.6	9.3	528.3	
		11:00AM			177.5	19.7	157.8	

Definitions:

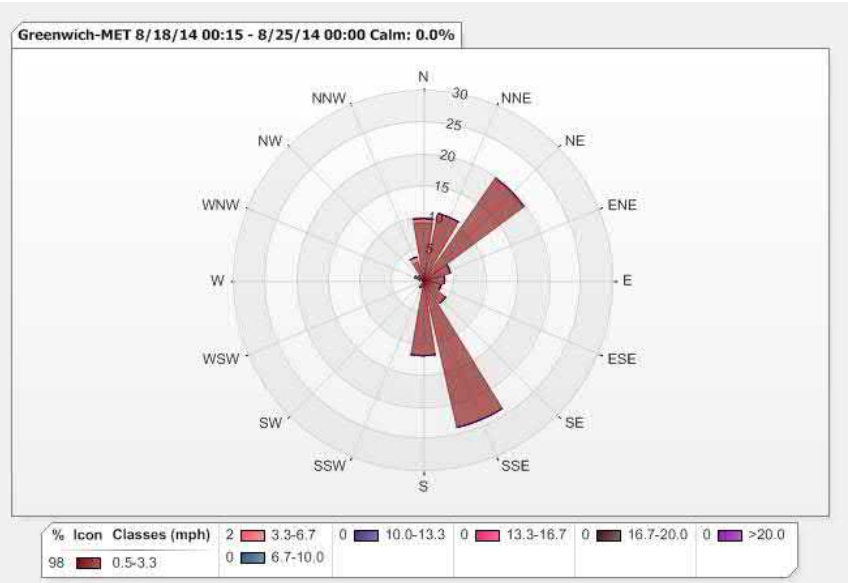
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

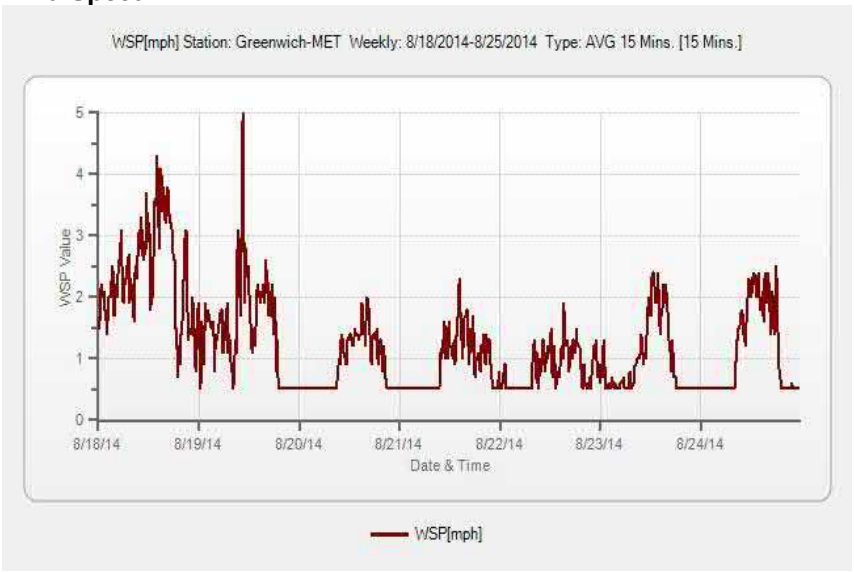
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (8/18/14 – 8/24/14)

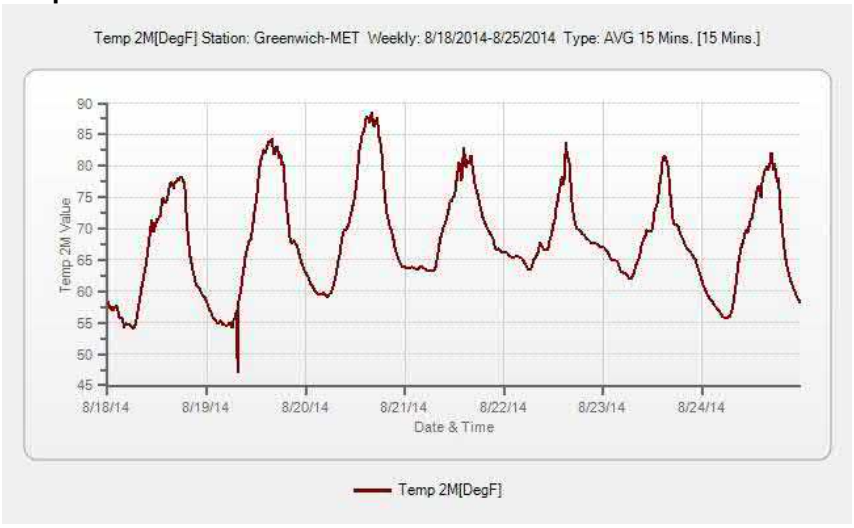
Wind Rose:



Wind Speed:

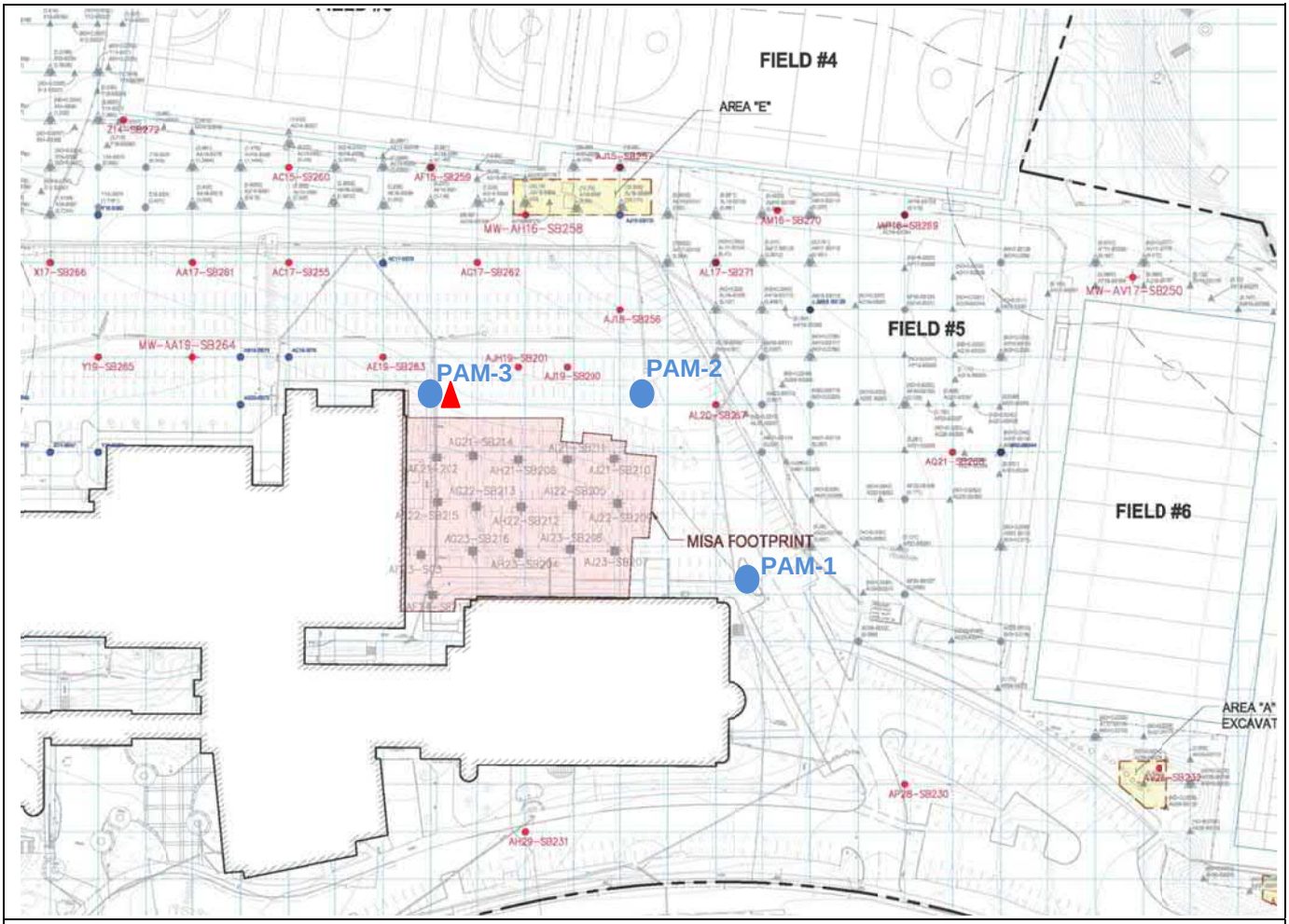


Temperature*:



*Temperature data found to be running slightly low during the day. However, overnight temperatures match well with regional weather conditions. AECOM suspects that there is an issue with the sensor and aspirator.

Figure 2: Site Map (8/18/14 – 8/24/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**8/25/14 – 8/31/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were several PM_{10} concentrations greater than the Action Level. The elevated concentrations were evaluated further and after performing background subtraction per PAMP guidelines, several of the elevated concentrations remained above the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 8/25/14	218.8	345.9	366.7	ND[1]
Tue 8/26/14	413.2	234.7	132.8	ND[1]
Wed 8/27/14	320.7	365.3	85.4	ND[1]
Thu 8/28/14	38.4	115.9	282.2	ND[1]
Fri 8/29/14	307.7	76.5	144.1	ND[1]

Definitions:

PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrograms per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	Mon 8/25/14	8:30AM	PAM-1	Light & Variable	218.8	29.7	189.1	Elevated concentrations were caused by a combination of handling masonry materials and vehicle traffic along the perimeter of the worksite.
PM_{10}	Mon 8/25/14	8:45AM	PAM-3	NNW – N 1.5 – 4.2 mph	155.8	17.6	138.2	Elevated concentrations were caused by vehicle traffic along the perimeter of the worksite.
		9:30AM			171.4	12.4	159.0	
		9:45AM			168.2	33.9	134.3	
		10:45AM			168.3	11.8	156.5	
		11:15AM			256.2	59.4	196.8	
		11:30AM			178.5	14.1	164.4	
		11:45AM			166.3	17.0	149.3	
		12:00PM			190.0	27.8	162.2	
		12:15PM			250.3	15.0	235.3	
		12:30PM			366.7	15.6	351.1	
PM_{10}	Mon 8/25/14	11:00AM	PAM-2	N – SSW 2.2 – 5.1 mph	228.7	12.5	216.2	Elevated concentrations were caused by vehicle traffic along the perimeter of the worksite.
		1:45PM			159.5	31.3	128.2	
		2:00PM			156.2	36.8	119.4	
		2:15PM			238.7	40.8	197.9	
		2:30PM			345.9	48.0	297.9	
		2:45PM			158.0	43.1	114.9	
PM_{10}	Tues 8/26/14	8:45AM	PAM-1	ND	295.2	57.1	238.1	Elevated concentrations were caused by a combination of handling masonry materials and vehicle traffic along the perimeter of the worksite.
		11:45AM			177.0	36.5	140.5	
		12:15PM			186.9	49.4	137.5	
		12:30PM			359.2	38.7	320.5	
		12:45PM			304.0	37.4	266.6	
		1:00PM			261.9	36.7	225.2	
		1:15PM			413.2	35.0	378.2	
		1:30PM			306.3	35.8	270.5	
		1:45PM			254.9	42.7	212.2	

Definitions:

PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Table 3: Concentrations above the Action Level (cont.)

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	Tues 8/26/14	12:30PM 1:00PM 1:15PM	PAM-2	ND	168.2 234.7 162.8	38.7 36.7 35.0	129.5 198.0 127.8	Elevated concentrations were caused by vehicle traffic along the perimeter of the worksite.
PM_{10}	Wed 8/27/14	11:15AM 11:30AM 11:45AM 12:00PM 12:30PM	PAM-1	ND	320.7 180.0 267.6 276.4 276.9	51.7 44.4 44.1 43.6 48.0	269.0 135.6 223.5 232.8 228.9	Elevated concentrations were caused by a combination of handling masonry materials and vehicle traffic along the perimeter of the worksite.
PM_{10}	Wed 8/27/14	11:15AM 11:30AM 12:00PM 12:15PM 12:30PM 12:45PM 1:00PM 1:15PM 1:30PM 1:45PM 2:00PM	PAM-2	ND	171.5 190.7 153.2 163.3 270.3 206.3 365.3 211.1 175.2 213.6 168.2	51.7 44.4 43.6 44.3 48.0 45.4 44.4 47.9 45.2 47.4 51.0	119.8 146.3 109.6 119.0 222.3 160.9 320.9 163.2 132.0 166.2 117.2	Elevated concentrations were caused by vehicle traffic along the perimeter of the worksite.
PM_{10}	Thu 8/28/14	10:30AM 11:15AM 11:30AM 11:45AM 1:00PM 1:30PM	PAM-3	N 4.0 – 6.0 mph	216.1 174.9 282.2 271.1 236.3 274.9	7.2 8.5 10.5 38.4 15.8 20.5	208.9 166.4 271.7 232.7 220.5 254.4	Elevated concentrations were caused by vehicle traffic along the perimeter of the worksite.
PM_{10}	Fri 8/29/14	12:45PM 1:00PM 1:15PM 1:30PM	PAM-1	SSW 5.1 – 6.0 mph	194.7 307.7 153.4 181.4	9.7 10.4 9.3 10.1	185.0 297.3 144.1 171.3	Elevated concentrations were caused by a combination of handling masonry materials and vehicle traffic along the perimeter of the worksite.

Definitions:

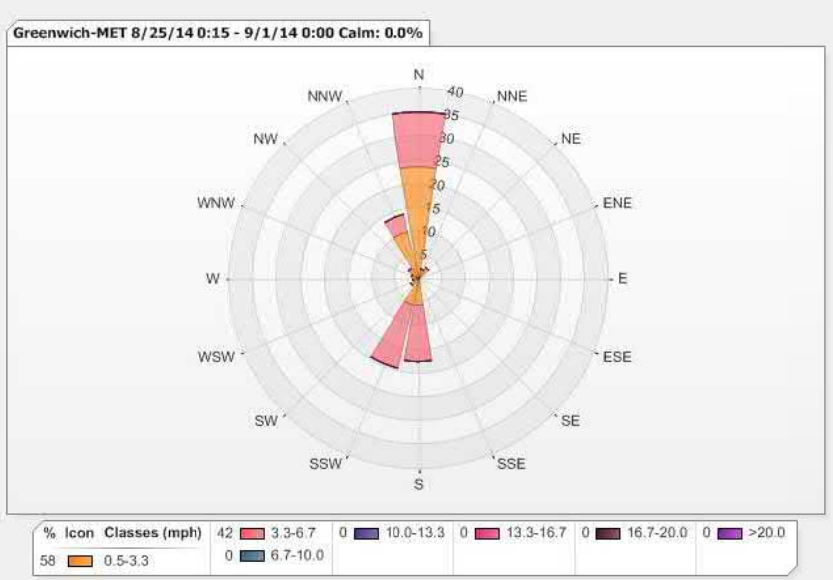
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

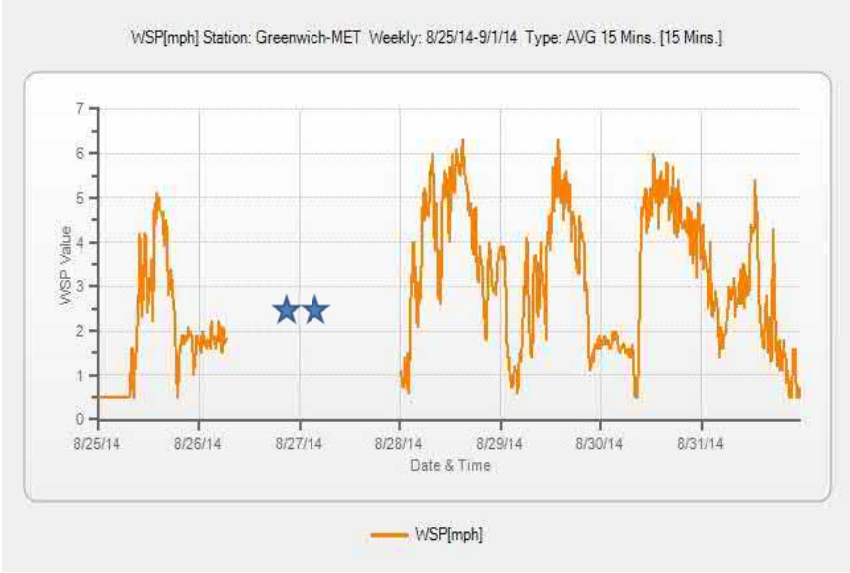
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (8/25/14 – 8/31/14)

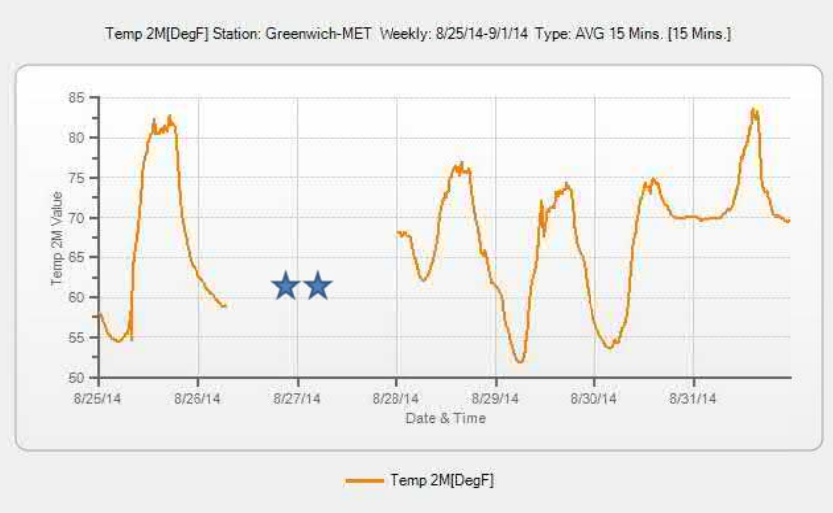
Wind Rose:



Wind Speed:



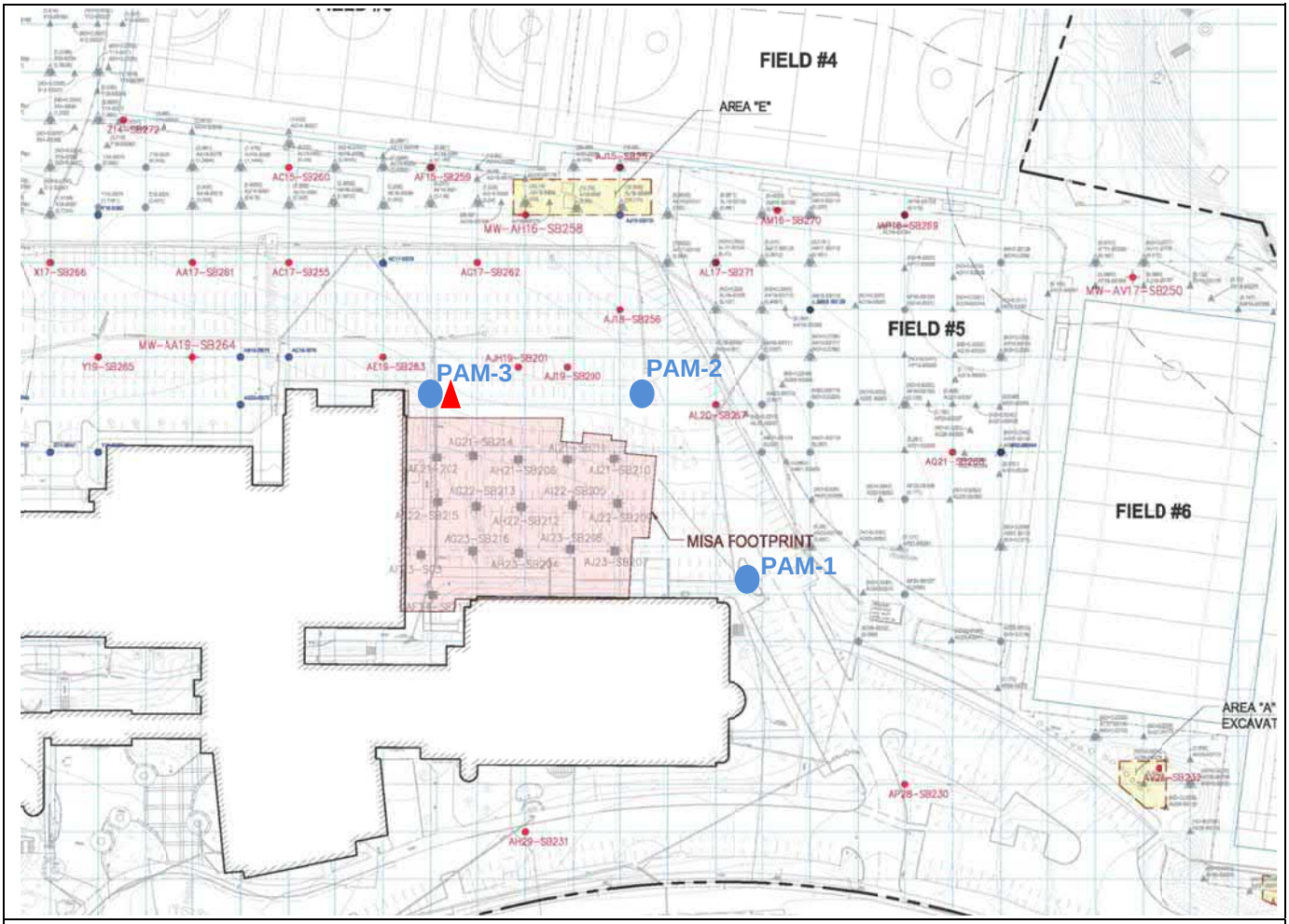
Temperature*:



*Temperature data found to be running slightly low during the day. However, overnight temperatures match well with regional weather conditions. AECOM suspects that there is an issue with the sensor and aspirator.

**Meteorological tower was shut down on August 26, 2014 and repositioned on August 28, 2014.

Figure 2: Site Map (8/25/14 – 8/31/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**9/1/14 – 9/7/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were several PM_{10} concentrations greater than the Action Level. The elevated concentrations were evaluated further and after performing background subtraction per PAMP guidelines, several of the elevated concentrations remained above the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 9/1/14	NA[1]	NA[1]	NA[1]	NA[1]
Tue 9/2/14	225.7	180.3	137.1	ND[2]
Wed 9/3/14	83.7	64.6	60.8	ND[2]
Thu 9/4/14	ND[3]	121.8	172.5	ND[2]
Fri 9/5/14	351.2	95.7	90.8	ND[2]

Definitions:

PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrograms per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Site closed for Memorial Day Holiday (no Site activities).
[2] Hand-held monitoring was not performed during the reporting period.
[3] PAM-1 data missing because of an instrument malfunction. The PAM was replaced.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	Tue 9/2/14	8:00AM	PAM-2	Light & Variable	180.3	92.2	88.1	Elevated concentrations were caused by vehicle traffic along the perimeter of the worksite.
PM_{10}	Tue 9/2/14	9:45AM	PAM-1	S – SSW 2.5 – 5.8 mph	160.8	42.5	118.3	Elevated concentrations were caused by a combination of handling masonry materials and vehicle traffic along the perimeter of the worksite.
		10:00AM			166.3	30.0	136.3	
		12:00PM			213.5	37.7	175.8	
		1:45PM			211.9	42.8	169.1	
		2:15PM			205.2	41.1	164.1	
		2:30PM			225.7	43.3	182.4	
PM_{10}	Thu 9/4/14	8:15AM	PAM-3	Light & Variable	172.5	121.8	50.7	Elevated concentrations were caused by vehicle traffic along the perimeter of the worksite.
PM_{10}	Fri 9/5/14	10:00AM	PAM-1	S – SSW 3.6 mph – 6.8 mph	301.3	41.0	260.3	Elevated concentrations were caused by a combination of handling masonry materials and vehicle traffic along the perimeter of the worksite.
		11:00AM			286.9	37.5	249.4	
		11:15AM			306.0	36.3	269.7	
		11:30AM			202.1	35.7	166.4	
		12:15PM			313.1	36.2	276.9	
		12:30PM			280.2	36.1	244.1	
		12:45PM			229.3	36.4	192.9	
		1:00PM			351.2	36.2	315.0	
		1:15PM			198.1	34.9	163.2	
		1:30PM			318.7	34.5	284.2	

Definitions:

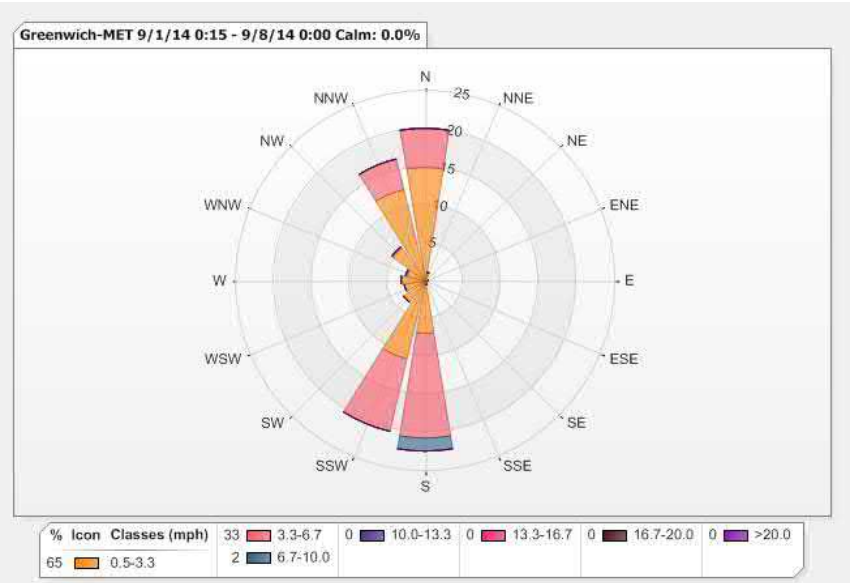
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

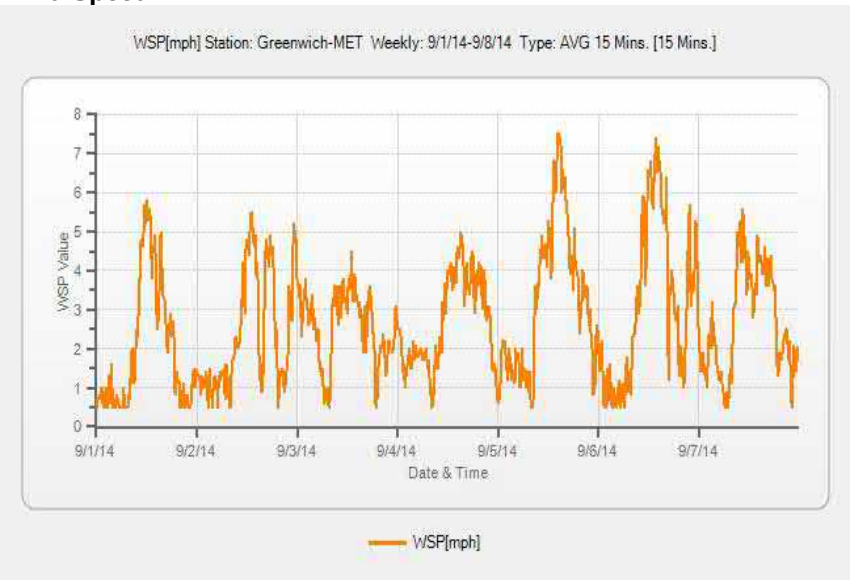
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (9/1/14 – 9/7/14)

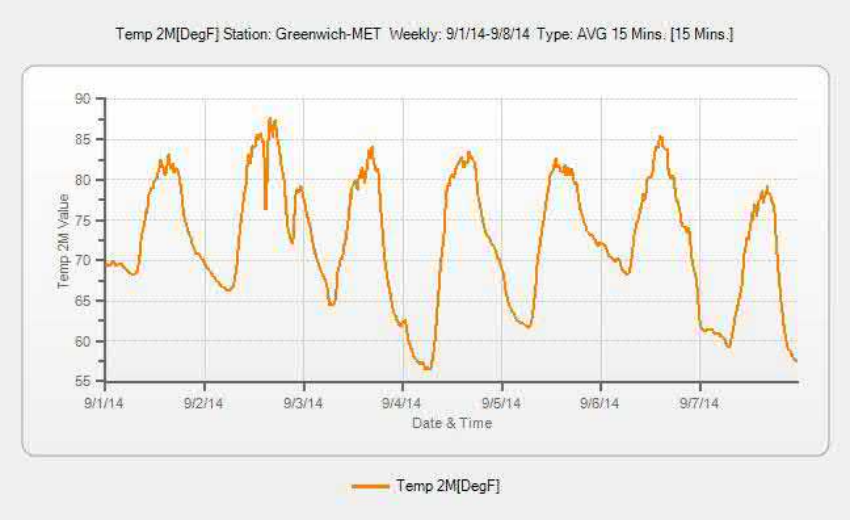
Wind Rose:



Wind Speed:

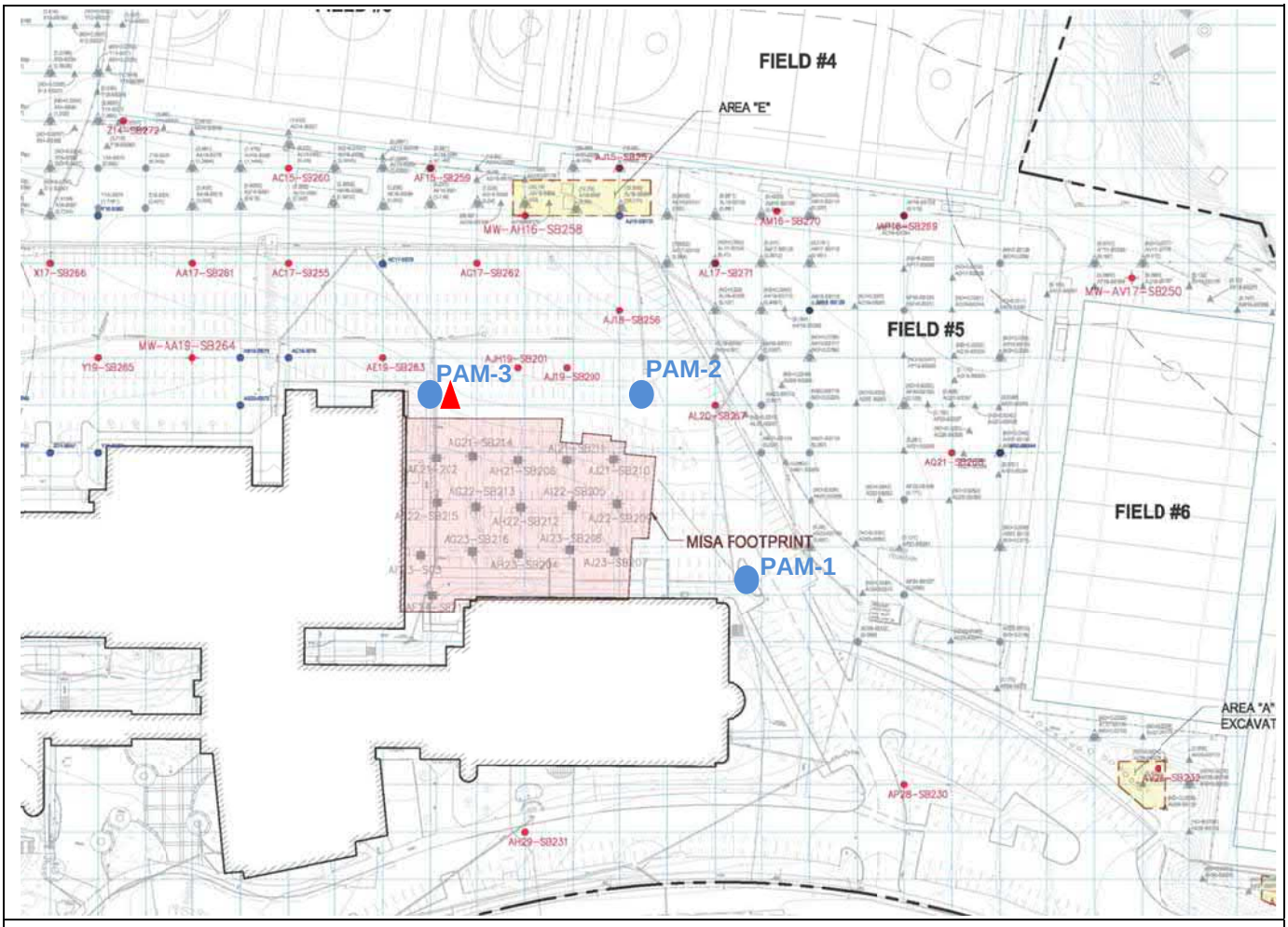


Temperature*:



*Temperature data found to be running slightly low during the day. However, overnight temperatures match well with regional weather conditions. AECOM suspects that there is an issue with the sensor and aspirator.

Figure 2: Site Map (9/1/14 – 9/7/14)



Legend:

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- Meteorological Tower

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**9/8/14 – 9/14/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were several PM_{10} concentrations greater than the Action Level. The elevated concentrations were evaluated further and after performing background subtraction per PAMP guidelines, several of the elevated concentrations remained above the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 9/8/14	87.6	102.5	56.5	ND[1]
Tue 9/9/14	98.5	109.0	160.4	ND[1]
Wed 9/10/14	176.2	57.7	91.0	ND[1]
Thu 9/11/14	207.6	63.6	27.9	ND[1]
Fri 9/12/14	59.2	140.9	96.9	ND[1]

Definitions:

PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrograms per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	Tue 9/9/14	8:30AM	PAM-3	Light & Variable	160.4	14.2	146.2	Elevated concentrations were caused by vehicle traffic around the perimeter of the worksite.
PM_{10}	Wed 9/10/14	12:15PM	PAM-1	SSW 5.0 mph	176.2	33.0	143.2	Elevated concentrations were caused by masonry work and loading of masonry hoppers.
PM_{10}	Thu 9/11/14	10:15AM	PAM-1	S – SSW 3.8 – 5.0 mph	179.5	12.5	167.0	Elevated concentrations were caused by masonry work and loading of masonry hoppers.
		11:00AM			166.0	13.1	152.9	
		11:15AM			180.6	13.8	166.8	
		11:45AM			199.7	13.4	186.3	
		12:00PM			207.6	13.8	193.8	
		12:15PM			200.3	13.2	187.1	

Definitions:

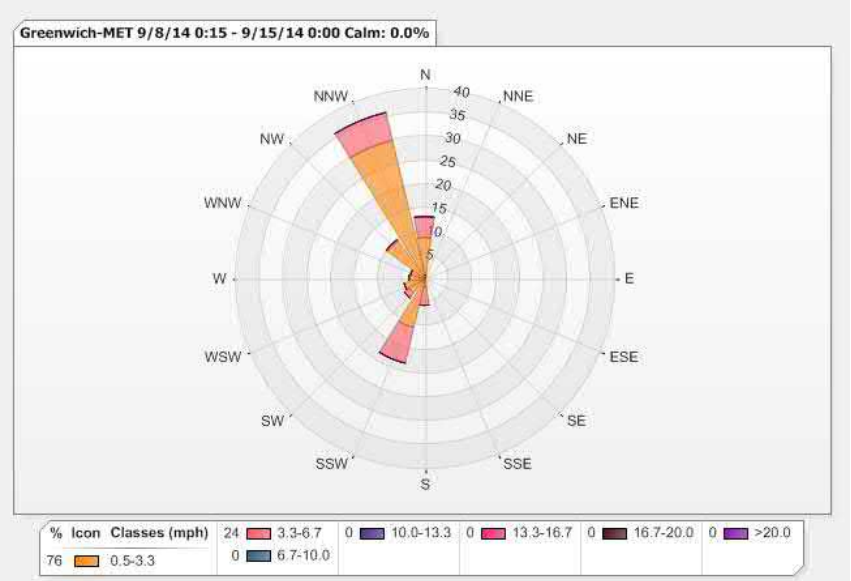
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

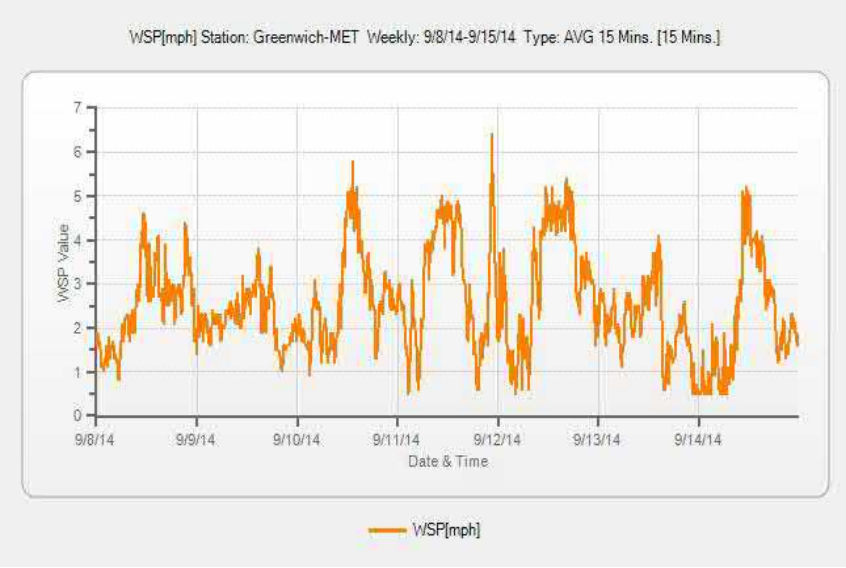
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (9/8/14 – 9/14/14)

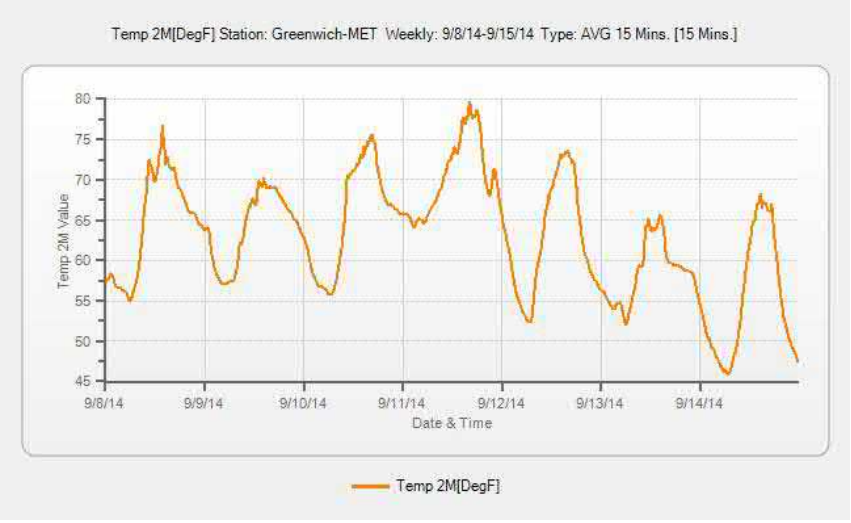
Wind Rose:



Wind Speed:

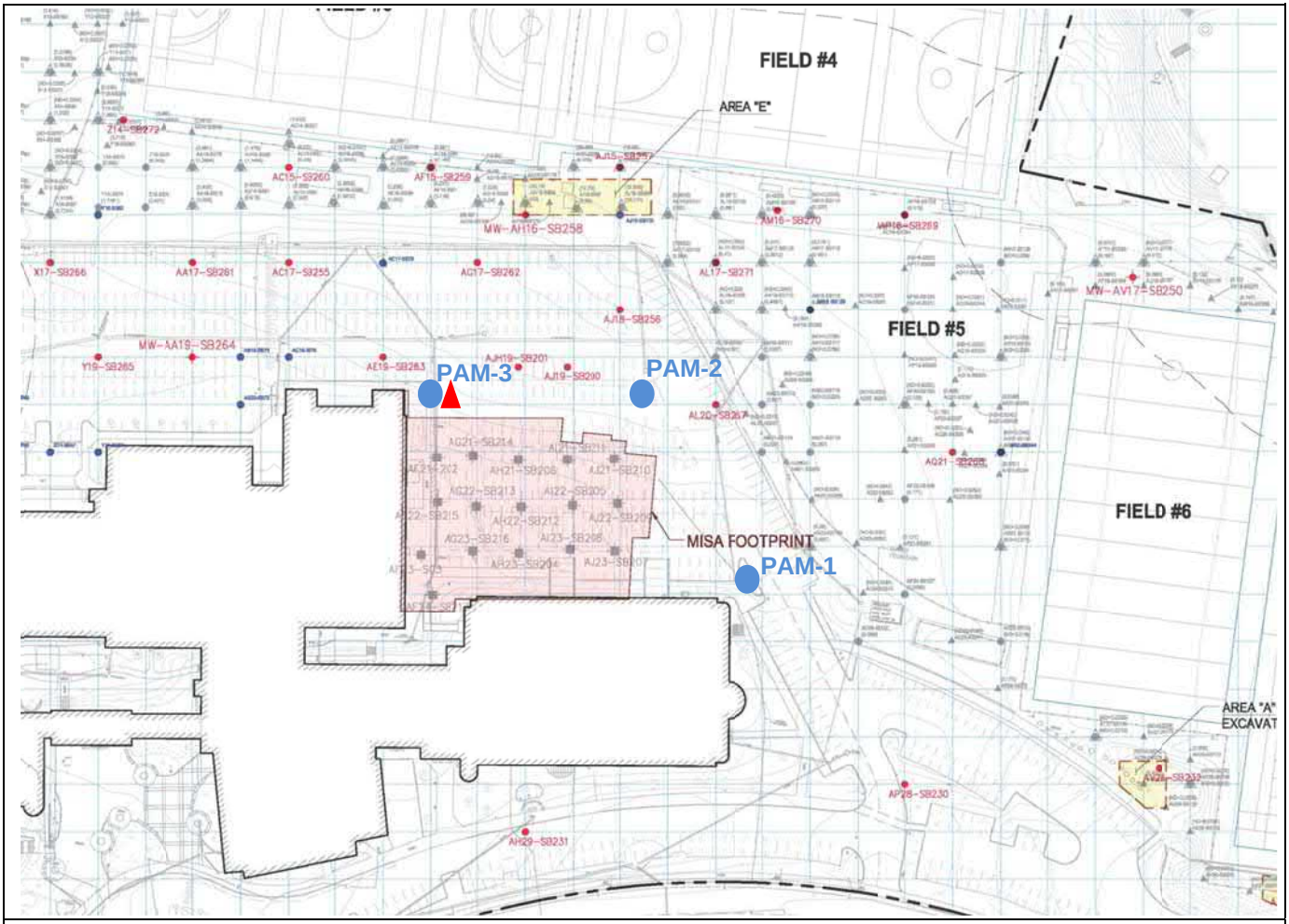


Temperature*:



*Temperature data found to be running slightly low during the day. However, overnight temperatures match well with regional weather conditions. AECOM suspects that there is an issue with the sensor and aspirator.

Figure 2: Site Map (9/8/14 – 9/14/14)



Legend:

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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**9/15/14 – 9/21/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were several PM_{10} concentrations greater than the Action Level. The elevated concentrations were evaluated further and after performing background subtraction per PAMP guidelines, several of the elevated concentrations remained above the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 9/15/14	186.0	119.9	47.2	ND[1]
Tue 9/16/14	180.0	44.6	70.1	ND[1]
Wed 9/17/14	112.6	51.1	76.3	ND[1]
Thu 9/18/14	215.3	118.9	85.4	ND[1]
Fri 9/19/14	187.4	67.4	77.1	ND[1]

Definitions:

PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrograms per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Hand-held monitoring was not performed during the reporting period.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	Mon 9/15/14	2:15PM	PAM-1	SSW 2.4 – 4.5 mph	173.0	24.9	148.1	Elevated concentrations were caused by masonry work and loading of masonry hoppers.
		3:00PM			186.0	28.7	157.3	
		3:15PM			154.5	18.2	136.3	
		3:45PM			152.6	19.0	133.6	
		4:00PM			171.5	20.7	150.8	
		4:45PM			154.3	19.7	134.6	
PM_{10}	Tue 9/16/14	1:15PM	PAM-1	SSW 2.3 – 2.9 mph	152.5	43.0	109.5	Elevated concentrations were caused by masonry work and loading of masonry hoppers.
		1:30PM			153.5	35.1	118.4	
		2:15PM			180.0	44.1	135.9	
PM_{10}	Thu 9/18/14	1:45PM	PAM-1	SSW 2.7 mph	215.3	16.2	199.1	Elevated concentrations were caused by masonry work and loading of masonry hoppers.
PM_{10}	Fri 9/19/14	12:30PM	PAM-1	SSW 3.9 – 5.4 mph	171.8	22.1	149.7	Elevated concentrations were caused by masonry work and loading of masonry hoppers.
		1:15PM			172.0	21.3	150.7	
		2:15PM			167.8	22.9	144.9	
		2:30PM			187.4	22.5	164.9	

Definitions:

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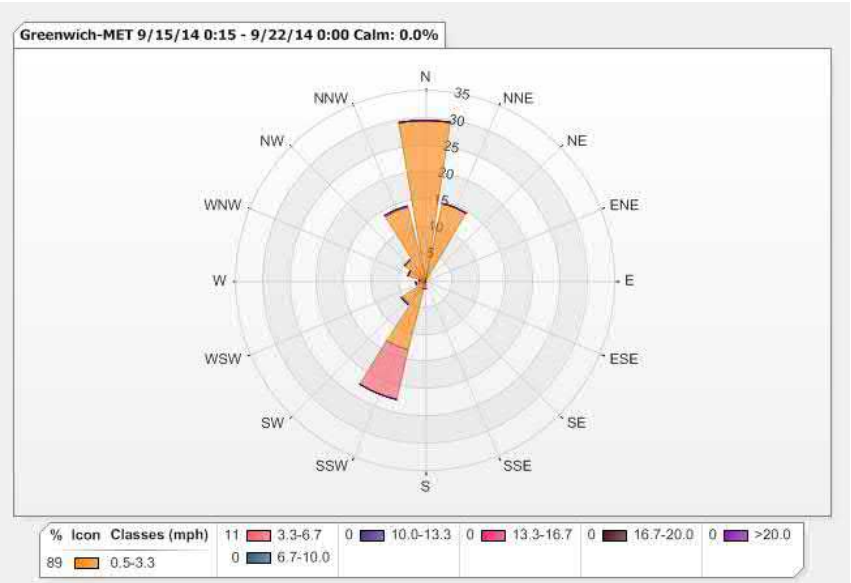
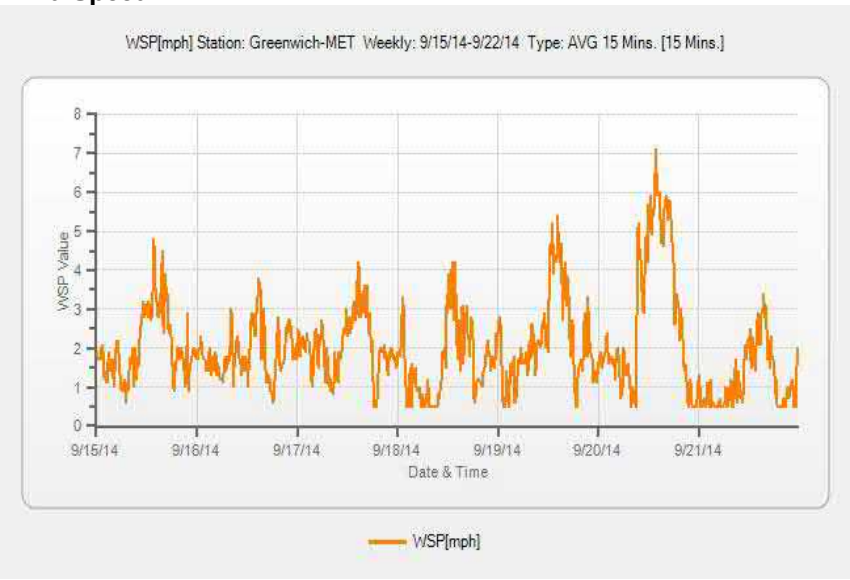
Figure 1: Meteorological Summaries (9/15/14 – 9/21/14)

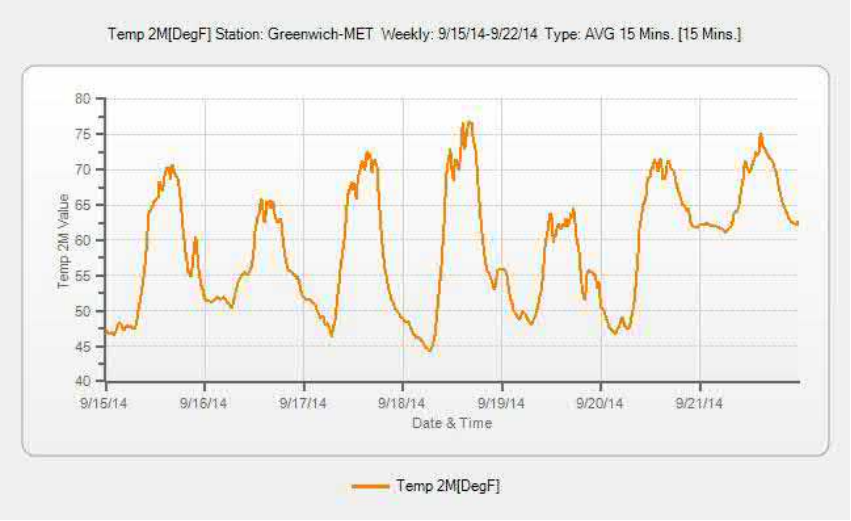
Wind Rose:



Wind Speed:

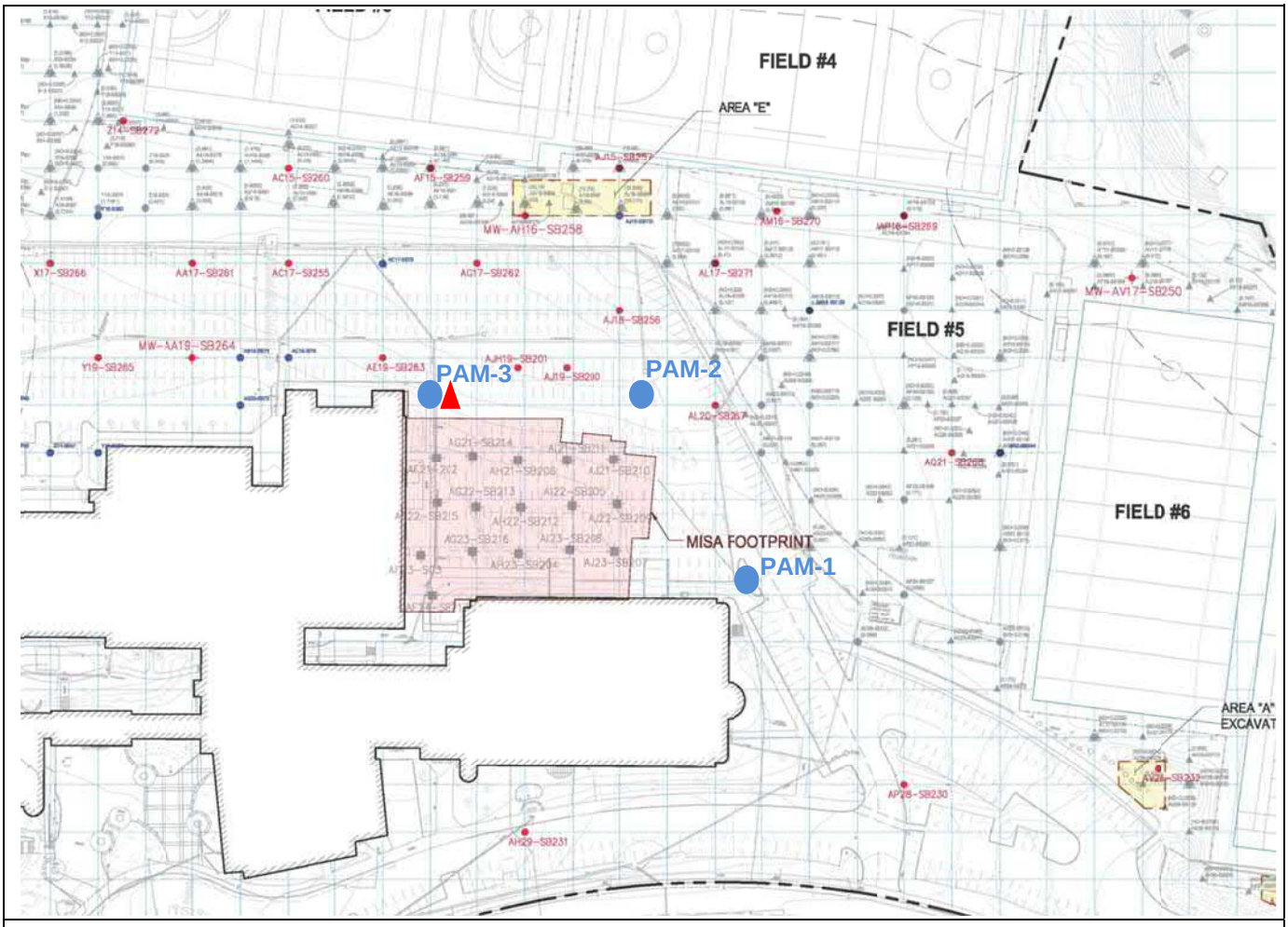


Temperature*:



*Temperature data found to be running slightly low during the day. However, overnight temperatures match well with regional weather conditions. AECOM suspects that there is an issue with the sensor and aspirator.

Figure 2: Site Map (9/15/14 – 9/21/14)



Legend:

- PAM – Portable Air Monitoring Station
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Weekly Perimeter Air Monitoring Summary

Client:	**Town of Greenwich, Connecticut**
Location:	**Greenwich High School – Music and Instruction Space Auditorium**
Period:	**9/22/14 – 9/25/14**

This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Perimeter Air Monitoring Plan (PAMP), dated July 2013 at the Greenwich High School Music and Instruction Space Auditorium (MISA), Greenwich, Connecticut, referred herein as Site.

In accordance with the PAMP, air monitoring was completed at the completion of ground intrusive activities on September 25, 2014.

Introduction

Engineering controls and dust suppression are applied throughout the daily work activities. A combination of real-time continuous and periodic hand-held PM_{10} monitoring and meteorological monitoring was conducted at the Site. The real-time continuous monitoring results are compared to a list of Site specific Alert and Action Levels. As a result of this evaluation process, Site conditions are categorized into three categories: Operational Condition; Alert Condition; and Action Condition. The Operational Condition is applicable when concentrations are measured below the Alert Level. The Alert Condition is applicable when one or more 15-minute average concentrations are measured above the Alert Level but below the Action Level. The Action Condition occurs when one or more 15-minute average concentrations are measured above the Action Level. The Alert and Action Levels and the corresponding Site Conditions are shown in the following Table:

- **Table 1**: Alert and Action Levels and the Site Conditions.

Real-Time Air Monitoring Summary – PM_{10}

Continuous real-time air monitoring for PM_{10} was conducted upwind and downwind of the work area along the Site perimeter at three (3) portable air monitoring (PAM) stations. These PAM stations are located along the Site fenceline. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10}. The real-time perimeter air monitoring system consists of three (3) PAM stations; a meteorological tower; and a central computer system with an automatic alarm notification system.

During the report period there were several PM_{10} concentrations greater than the Action Level. The elevated concentrations were evaluated further and after performing background subtraction per PAMP guidelines, each of the elevated concentrations were reduced below the Action Level. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} concentrations summary; and
- **Table 3**: Concentrations above the Action Level.

Meteorological Observations and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Figure 1**: Weekly meteorological summaries; and
- **Figure 2**: Daily/weekly Site map(s).

Table 1: Site Specific Alert and Action Levels and Site Conditions

Target Compound	Alert Level (15-minute Average)	Action Level (15-minute Average)	Site Condition		
			Operational	Alert	Action
PM_{10} ($\mu g/m^3$)	100 above background	150 above background	$[C_{avg}] < 100$	$100 < [C_{avg}] < 150$	$[C_{avg}] > 150$

Definitions:

PM_{10} = Respirable Particulate Matter
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration

Table Notes:

- Alert and Action Levels were obtained from the Site Specific PAMP, prepared by AECOM.
- Background concentrations are defined as the current lowest concentration measured at the Site at the same time as the elevated concentration measurement.

Table 2: Weekly Real-Time Maximum PM_{10} Concentrations Summary

Date	PAM-1	PAM-2	PAM-3	Hand-Held
	PM_{10} $\mu g/m^3$	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**	**PM_{10} $\mu g/m^3$**
	Maximum 15-Minute Average Concentrations (Action Level: PM_{10} = 150 $\mu g/m^3$)			***Maximum Instantaneous Concentrations***
Mon 9/22/14	ND[1]	ND[1]	ND[1]	ND[1]
Tue 9/23/14	114.8	38.5	73.1	ND[2]
Wed 9/24/14	177.2	162.0	ND[3]	ND[2]
Thu 9/25/14	38.5	60.2	ND[3]	ND[2]

Definitions:

PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrograms per cubic meter
NA = Not Applicable
ND = No Data

Notes:

- Highlighted concentrations require further analysis (see **Table 3**).
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

[1] Air monitoring was not performed.
[2] Hand-held monitoring was not performed during the reporting period.
[3] PAM-3 data was invalid because of an instrument malfunction.

Table 3: Concentrations above the Action Level

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Background Concentration	Resultant Concentration	Comments/Explanation
PM_{10}	Wed 9/24/14	1:45PM 4:45PM	PAM-1	WNW 2.7 mph WNW 2.9 mph	177.2 154.7	126.4 56.9	50.8 97.8	Elevated concentrations were caused by masonry work and loading of masonry hoppers.
PM_{10}	Wed 9/24/14	2:30PM	PAM-2	WNW 2.1 mph	162.0	136.6	25.4	Elevated concentrations were caused by vehicle traffic around the perimeter of the worksite.

Definitions:

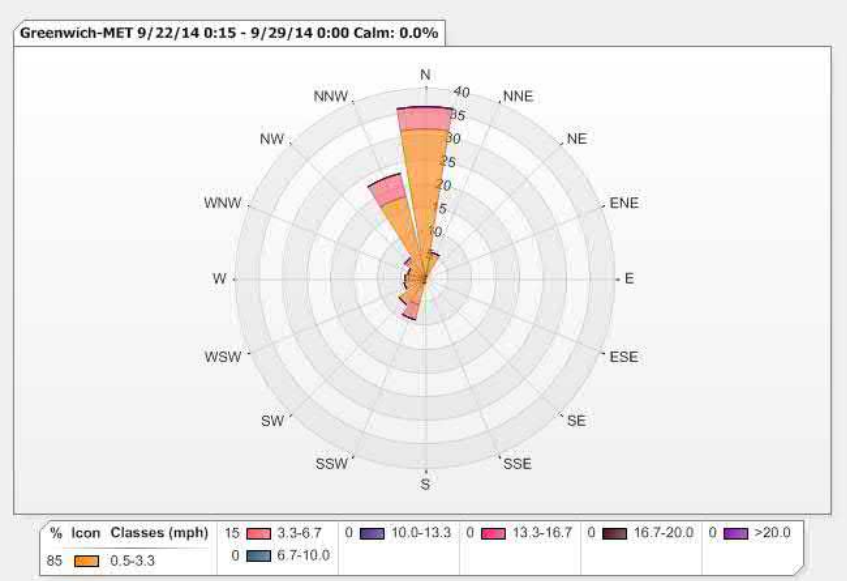
PAM = Portable Air Monitoring Station
PM_{10} = Particulate Matter 10 micro meters or less
$\mu g/m^3$ = Micrometers per cubic meter
NA = Not Applicable
ND = No Data

Notes:

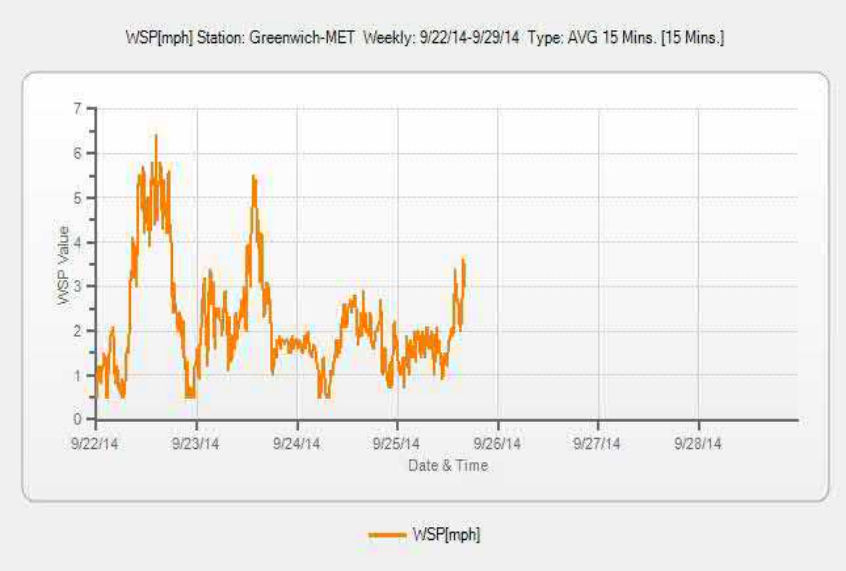
- PAM reported PM_{10} data represent 15-minute average concentrations.
- Hand-held data represent instantaneous concentrations unless stated otherwise.

Figure 1: Meteorological Summaries (9/22/14 – 9/25/14)

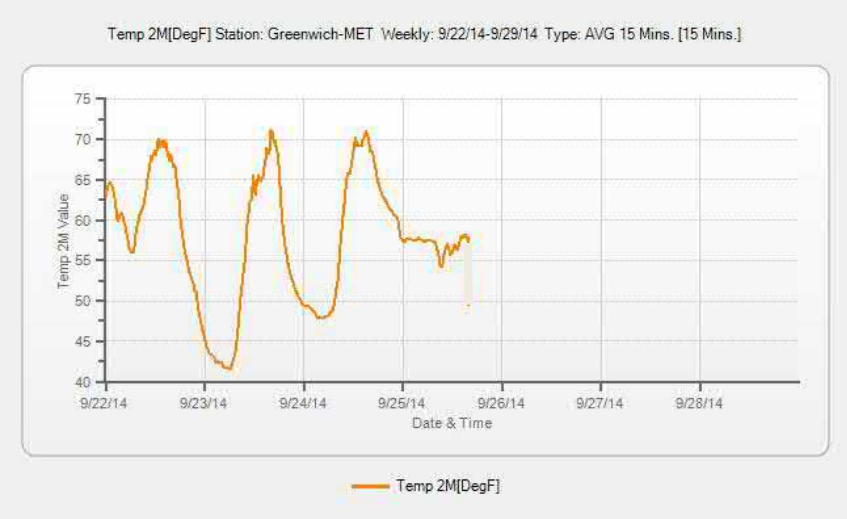
Wind Rose:



Wind Speed:

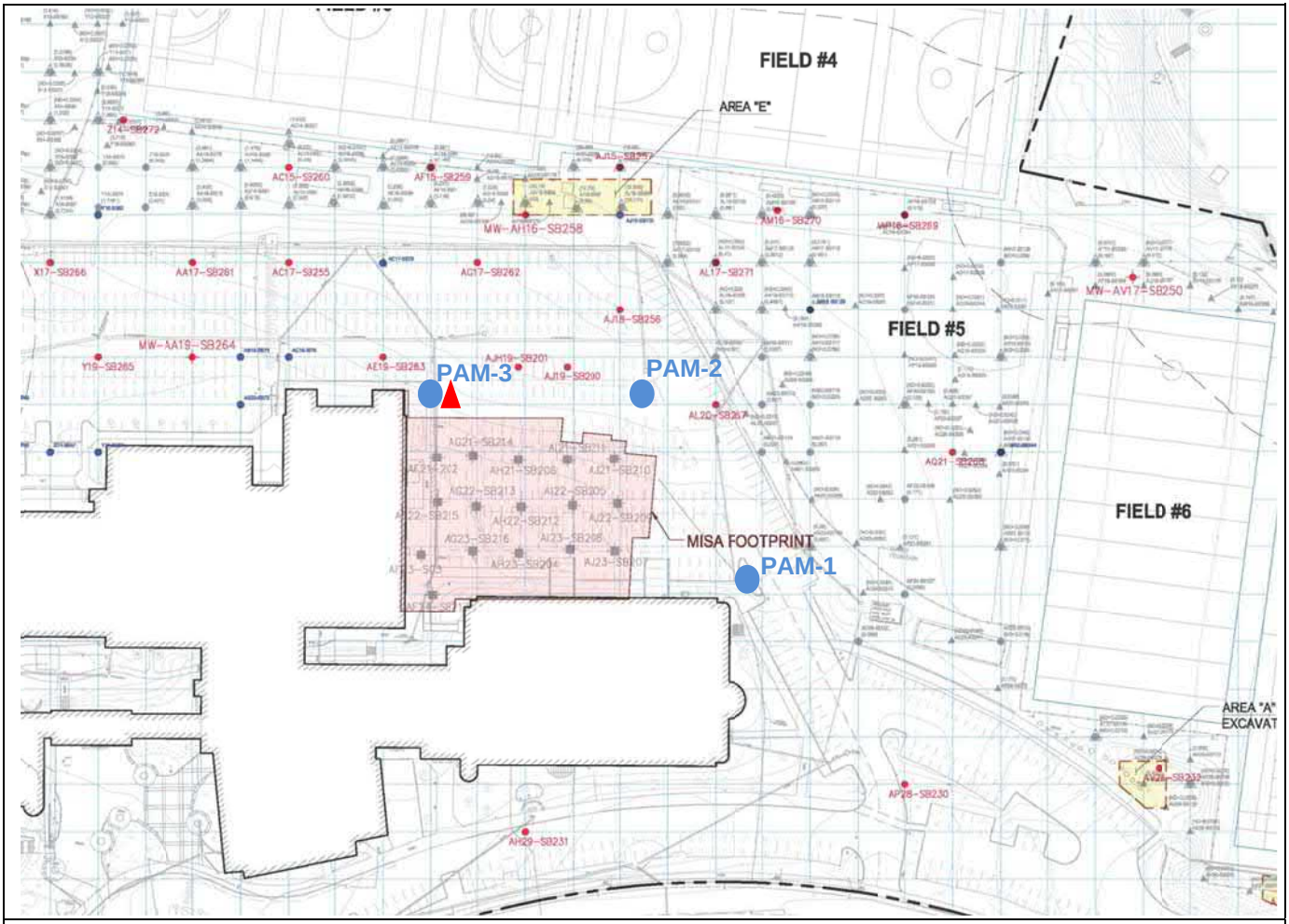


Temperature*:



*Temperature data found to be running slightly low during the day. However, overnight temperatures match well with regional weather conditions. AECOM suspects that there is an issue with the sensor and aspirator.

Figure 2: Site Map (9/22/14 – 9/25/14)



Legend:

- PAM – Portable Air Monitoring Station
- Meteorological Tower

Appendix F
Laboratory Reports

Report Date:
26-Jul-13 17:05

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: GHS- MISA - Greenwich, CT
Project #: 60225155 MISA0600

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB73732-01	AOC-1a-AA00(8)-1	Soil	24-Jul-13 13:00	24-Jul-13 18:30
SB73732-02	AOC-1a-AAS01(8)-1	Soil	24-Jul-13 13:06	24-Jul-13 18:30
SB73732-03	AOC-1a-AAS02(8)-1	Soil	24-Jul-13 13:07	24-Jul-13 18:30
SB73732-04	AOC-1a-AAS03(3)-1	Soil	24-Jul-13 13:08	24-Jul-13 18:30
SB73732-05	AOC-1a-AAN01(8)-1	Soil	24-Jul-13 13:08	24-Jul-13 18:30
SB73732-06	1AOC-1a-AAN02(8)-1	Soil	24-Jul-13 13:04	24-Jul-13 18:30
SB73732-07	AOC-1a-AAN03(3)-1	Soil	24-Jul-13 13:05	24-Jul-13 18:30
SB73732-08	AOC-1a-EB00(8)-1	Soil	24-Jul-13 13:09	24-Jul-13 18:30
SB73732-09	AOC-1a-EBN01(8)-1	Soil	24-Jul-13 13:10	24-Jul-13 18:30
SB73732-10	AOC-1a-EBN02(8)-1	Soil	24-Jul-13 13:15	24-Jul-13 18:30
SB73732-11	AOC-1a-EBN03(3)-1	Soil	24-Jul-13 13:17	24-Jul-13 18:30
SB73732-12	AOC-1a-EBS01(8)-1	Soil	24-Jul-13 13:20	24-Jul-13 18:30
SB73732-13	AOC-1a-EBS02(7)-1	Soil	24-Jul-13 13:22	24-Jul-13 18:30
SB73732-14	AOC-1a-EBS03(3)-1	Soil	24-Jul-13 13:25	24-Jul-13 18:30
SB73732-15	AOC-1a-EC00(8)-1	Soil	24-Jul-13 13:30	24-Jul-13 18:30
SB73732-16	AOC-1a-ECS01(8)-1	Soil	24-Jul-13 13:36	24-Jul-13 18:30
SB73732-17	AOC-1a-ECS02(8)-1	Soil	24-Jul-13 13:37	24-Jul-13 18:30
SB73732-18	AOC-1a-ECS03(3)-1	Soil	24-Jul-13 13:40	24-Jul-13 18:30
SB73732-19	AOC-1a-ECN01(8)-1	Soil	24-Jul-13 13:32	24-Jul-13 18:30
SB73732-20	AOC-1a-ECN02(8)-1	Soil	24-Jul-13 13:35	24-Jul-13 18:30
SB73732-21	AOC-1a-ED00(3)-1	Soil	24-Jul-13 13:42	24-Jul-13 18:30
SB73732-22	AOC-1a-EDN01(3)-1	Soil	24-Jul-13 13:43	24-Jul-13 18:30
SB73732-23	AOC-1a-EDS01(3)-1	Soil	24-Jul-13 13:47	24-Jul-13 18:30
SB73732-24	AOC-1a-EDS02(3)	Soil	24-Jul-13 13:50	24-Jul-13 18:30
SB73732-25	AOC-1a-EDN02(3)-1	Soil	24-Jul-13 13:45	24-Jul-13 18:30
SB73732-26	AOC-1a-WB00(8)-1	Soil	24-Jul-13 13:52	24-Jul-13 18:30
SB73732-27	AOC-1a-WBN01(8)-1	Soil	24-Jul-13 13:53	24-Jul-13 18:30
SB73732-28	AOC-1a-WBN02(8)-1	Soil	24-Jul-13 13:53	24-Jul-13 18:30
SB73732-29	AOC-1a-WBN03(3)-1	Soil	24-Jul-13 13:55	24-Jul-13 18:30
SB73732-30	AOC-1a-WBS01(8)-1	Soil	24-Jul-13 13:57	24-Jul-13 18:30
SB73732-31	AOC-1a-WBS02(8)-1	Soil	24-Jul-13 14:07	24-Jul-13 18:30
SB73732-32	AOC-1a-WBS03(3)-1	Soil	24-Jul-13 14:00	24-Jul-13 18:30
SB73732-33	AOC-1a-WC00(7)-1	Soil	24-Jul-13 14:22	24-Jul-13 18:30
SB73732-34	AOC-1a-WCS01(7)-1	Soil	24-Jul-13 14:47	24-Jul-13 18:30
SB73732-35	AOC-1a-WCN01(7)-1	Soil	24-Jul-13 14:25	24-Jul-13 18:30
SB73732-36	AOC-1a-WCN02(3)-1	Soil	24-Jul-13 14:25	24-Jul-13 18:30
SB73732-37	AOC-1a-WCS02(3)-1	Soil	24-Jul-13 14:29	24-Jul-13 18:30

SB73732-38	AOC-1a-WD00(3)-1	Soil	24-Jul-13 14:30	24-Jul-13 18:30
SB73732-39	AOC-1a-WDN01(3)-1	Soil	24-Jul-13 14:35	24-Jul-13 18:30
SB73732-40	AOC-1a-WDS01(3)-1	Soil	24-Jul-13 14:32	24-Jul-13 18:30

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 55 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: GHS- MISA - Greenwich, CT

Project Number: 60225155 MISA0600

Sampling Date(s):
7/24/2013

Laboratory Sample ID(s):
SB73732-01 through SB73732-40

RCP Methods Used:
SW846 8082A

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 7/26/2013

CASE NARRATIVE:

The samples were received 0.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Spikes:

1317547-MS1 *Source: SB73732-01*

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016
Aroclor-1016 [2C]

1317547-MSD1 *Source: SB73732-01*

RPD out of acceptance range.

Aroclor-1016 [2C]

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016
Aroclor-1016 [2C]

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

Decachlorobiphenyl (Sr) [2C]

1317548-MS1 *Source: SB73732-21*

SW846 8082A

Spikes:

1317548-MS1 *Source: SB73732-21*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Aroclor-1016

1317548-MSD1 *Source: SB73732-21*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Aroclor-1016
Aroclor-1016 [2C]

Duplicates:

1317548-DUP1 *Source: SB73732-21*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1016 [2C]
Aroclor-1221
Aroclor-1221 [2C]
Aroclor-1232
Aroclor-1232 [2C]
Aroclor-1242
Aroclor-1242 [2C]
Aroclor-1248
Aroclor-1248 [2C]

Samples:

SB73732-01 *AOC-1a-AA00(8)-1*

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

4,4-DB-Octafluorobiphenyl (Sr)

SB73732-02 *AOC-1a-AAS01(8)-1*

Difference between the two GC columns is greater than 40%.

Aroclor-1248

SB73732-03 *AOC-1a-AAS02(8)-1*

Difference between the two GC columns is greater than 40%.

Aroclor-1248

SB73732-04 *AOC-1a-AAS03(3)-1*

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

4,4-DB-Octafluorobiphenyl (Sr)

SB73732-06 *1AOC-1a-AAN02(8)-1*

Difference between the two GC columns is greater than 40%.

Aroclor-1248

SB73732-07 *AOC-1a-AAN03(3)-1*

SW846 8082A

Samples:

SB73732-07 *AOC-1a-AAN03(3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB73732-10 *AOC-1a-EBN02(8)-1*

Difference between the two GC columns is greater than 40%.

Aroclor-1248

SB73732-11 *AOC-1a-EBN03(3)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

SB73732-13 *AOC-1a-EBS02(7)-1*

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

4,4-DB-Octafluorobiphenyl (Sr)

SB73732-14 *AOC-1a-EBS03(3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB73732-16 *AOC-1a-ECS01(8)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

SB73732-21 *AOC-1a-ED00(3)-1*

SW846 8082A

Samples:

SB73732-21 *AOC-1a-ED00(3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB73732-22 *AOC-1a-EDN01(3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB73732-23 *AOC-1a-EDS01(3)-1*

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

4,4-DB-Octafluorobiphenyl (Sr)

SB73732-26 *AOC-1a-WB00(8)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB73732-28 *AOC-1a-WBN02(8)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

SB73732-29 *AOC-1a-WBN03(3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB73732-30 *AOC-1a-WBS01(8)-1*

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

4,4-DB-Octafluorobiphenyl (Sr)

SW846 8082A

Samples:

SB73732-31 *AOC-1a-WBS02(8)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB73732-32 *AOC-1a-WBS03(3)-1*

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

4,4-DB-Octafluorobiphenyl (Sr)

SB73732-34 *AOC-1a-WCS01(7)-1*

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

4,4-DB-Octafluorobiphenyl (Sr)

SB73732-36 *AOC-1a-WCN02(3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB73732-37 *AOC-1a-WCS02(3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB73732-38 *AOC-1a-WD00(3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB73732-39 *AOC-1a-WDN01(3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB73732-40 *AOC-1a-WDS01(3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	GHS- MISA - Greenwich, CT / 60225155 MISA0600
Work Order:	SB73732
Sample(s) received on:	7/24/2013
Received by:	Tanya Krivolenko

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-AA00(8)-1 SB73732-01	60225155 MISA0600	Soil	24-Jul-13 13:00	24-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.9		µg/kg dry	21.9	16.4	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 21.9		µg/kg dry	21.9	19.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.9		µg/kg dry	21.9	14.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.9		µg/kg dry	21.9	13.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**2,720**		µg/kg dry	21.9	11.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.9		µg/kg dry	21.9	18.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**50.4**		µg/kg dry	21.9	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.9		µg/kg dry	21.9	20.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.9		µg/kg dry	21.9	9.04	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*375*	S02		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.3**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317597	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-AAS01(8)-1 SB73732-02	60225155 MISA0600	Soil	24-Jul-13 13:06	24-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	363	P	µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	< 20.8		µg/kg dry	20.8	10.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.56	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	91.4		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317597	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-AAS02(8)-1 SB73732-03	60225155 MISA0600	Soil	24-Jul-13 13:07	24-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	15.7	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	18.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**2,200**	P	µg/kg dry	21.0	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.0		µg/kg dry	21.0	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**64.1**		µg/kg dry	21.0	10.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.67	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*140*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.5**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317597	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-AAS03(3)-1 SB73732-04	60225155 MISA0600	Soil	24-Jul-13 13:08	24-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.6		µg/kg dry	19.6	14.7	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 19.6		µg/kg dry	19.6	17.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.6		µg/kg dry	19.6	12.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.6		µg/kg dry	19.6	11.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**1,010**		µg/kg dry	19.6	8.62	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.6		µg/kg dry	19.6	16.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**35.3**		µg/kg dry	19.6	9.83	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.6		µg/kg dry	19.6	18.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.6		µg/kg dry	19.6	8.10	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*415*	S02		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**94.1**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317597	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-AAN01(8)-1 SB73732-05	60225155 MISA0600	Soil	24-Jul-13 13:08	24-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	15.7	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	19.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	119		µg/kg dry	21.0	9.23	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.0		µg/kg dry	21.0	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.0		µg/kg dry	21.0	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.68	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	91.2		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317597	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
1AOC-1a-AAN02(8)-1 SB73732-06	60225155 MISA0600	Soil	24-Jul-13 13:04	24-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.2		µg/kg dry	22.2	16.6	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 22.2		µg/kg dry	22.2	20.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.2		µg/kg dry	22.2	14.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.2		µg/kg dry	22.2	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**277**	P	µg/kg dry	22.2	11.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.2		µg/kg dry	22.2	18.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.2		µg/kg dry	22.2	13.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.2		µg/kg dry	22.2	20.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.2		µg/kg dry	22.2	9.14	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.5**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317597	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-AAN03(3)-1	60225155 MISA0600	Soil	24-Jul-13 13:05	24-Jul-13
SB73732-07				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 109	R01	µg/kg dry	109	81.7	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 109	R01	µg/kg dry	109	98.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 109	R01	µg/kg dry	109	70.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 109	R01	µg/kg dry	109	65.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 109	R01	µg/kg dry	109	56.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.9		µg/kg dry	21.9	18.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.9		µg/kg dry	21.9	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.9		µg/kg dry	21.9	20.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.9		µg/kg dry	21.9	9.02	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.2**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-EB00(8)-1 SB73732-08	60225155 MISA0600	Soil	24-Jul-13 13:09	24-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 23.5		µg/kg dry	23.5	17.6	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 23.5		µg/kg dry	23.5	21.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.5		µg/kg dry	23.5	15.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.5		µg/kg dry	23.5	14.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**757**		µg/kg dry	23.5	12.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.5		µg/kg dry	23.5	19.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.5		µg/kg dry	23.5	14.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.5		µg/kg dry	23.5	21.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.5		µg/kg dry	23.5	9.69	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**82.5**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-EBN01(8)-1 SB73732-09	60225155 MISA0600	Soil	24-Jul-13 13:10	24-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.7		µg/kg dry	22.7	17.0	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 22.7		µg/kg dry	22.7	20.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.7		µg/kg dry	22.7	14.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.7		µg/kg dry	22.7	13.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**4,410**		µg/kg dry	22.7	9.97	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.7		µg/kg dry	22.7	18.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**182**		µg/kg dry	22.7	11.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.7		µg/kg dry	22.7	21.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.7		µg/kg dry	22.7	9.37	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**87.0**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-EBN02(8)-1 SB73732-10	60225155 MISA0600	Soil	24-Jul-13 13:15	24-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.6		µg/kg dry	20.6	15.4	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 20.6		µg/kg dry	20.6	18.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.6		µg/kg dry	20.6	13.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.6		µg/kg dry	20.6	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**721**	P	µg/kg dry	20.6	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**35.0**		µg/kg dry	20.6	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.50	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.8**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-EBN03(3)-1	60225155 MISA0600	Soil	24-Jul-13 13:17	24-Jul-13
SB73732-11				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			GS1										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 444	D	µg/kg dry	444	332	20	SW846 8082A	24-Jul-13	26-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 444	D	µg/kg dry	444	400	20	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 444	D	µg/kg dry	444	285	20	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 444	D	µg/kg dry	444	267	20	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**33,000**	D	µg/kg dry	444	231	20	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 444	D	µg/kg dry	444	370	20	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**644**	D	µg/kg dry	444	222	20	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 444	D	µg/kg dry	444	414	20	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 444	D	µg/kg dry	444	183	20	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*0*	S01		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*0*	S01		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*0*	S01		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*0*	S01		*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**87.9**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-EBS01(8)-1 SB73732-12	60225155 MISA0600	Soil	24-Jul-13 13:20	24-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	16.2	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**224**		µg/kg dry	21.6	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.6		µg/kg dry	21.6	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.6		µg/kg dry	21.6	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.93	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.8**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-EBS02(7)-1 SB73732-13	60225155 MISA0600	Soil	24-Jul-13 13:22	24-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 23.8		µg/kg dry	23.8	17.8	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 23.8		µg/kg dry	23.8	21.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.8		µg/kg dry	23.8	15.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.8		µg/kg dry	23.8	14.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**3,560**		µg/kg dry	23.8	12.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.8		µg/kg dry	23.8	19.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.8		µg/kg dry	23.8	14.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.8		µg/kg dry	23.8	22.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.8		µg/kg dry	23.8	9.81	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*175*	S02		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**78.8**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-EBS03(3)-1	60225155 MISA0600	Soil	24-Jul-13 13:25	24-Jul-13
SB73732-14				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 96.1	R01	µg/kg dry	96.1	71.8	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 96.1	R01	µg/kg dry	96.1	86.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 96.1	R01	µg/kg dry	96.1	61.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 96.1	R01	µg/kg dry	96.1	57.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 96.1	R01	µg/kg dry	96.1	50.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.2		µg/kg dry	19.2	16.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.2		µg/kg dry	19.2	11.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.2		µg/kg dry	19.2	17.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.2		µg/kg dry	19.2	7.93	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**94.8**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-EC00(8)-1 SB73732-15	60225155 MISA0600	Soil	24-Jul-13 13:30	24-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.4		µg/kg dry	21.4	16.0	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 21.4		µg/kg dry	21.4	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.4		µg/kg dry	21.4	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.4		µg/kg dry	21.4	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.4		µg/kg dry	21.4	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.4		µg/kg dry	21.4	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.4		µg/kg dry	21.4	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.81	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*150*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.7**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-ECS01(8)-1 SB73732-16	60225155 MISA0600	Soil	24-Jul-13 13:36	24-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			GS1										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 2300	D	µg/kg dry	2300	1720	100	SW846 8082A	24-Jul-13	26-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 2300	D	µg/kg dry	2300	2070	100	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 2300	D	µg/kg dry	2300	1470	100	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 2300	D	µg/kg dry	2300	1380	100	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**94,300**	D	µg/kg dry	2300	1010	100	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 2300	D	µg/kg dry	2300	1910	100	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**2,300**	D	µg/kg dry	2300	1150	100	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 2300	D	µg/kg dry	2300	2140	100	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 2300	D	µg/kg dry	2300	947	100	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*0*	S01		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*0*	S01		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*0*	S01		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*0*	S01		*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**81.9**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-ECS02(8)-1 SB73732-17	60225155 MISA0600	Soil	24-Jul-13 13:37	24-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**659**		µg/kg dry	20.8	9.13	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.8		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.58	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.9**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-ECS03(3)-1 SB73732-18	60225155 MISA0600	Soil	24-Jul-13 13:40	24-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.9		µg/kg dry	20.9	15.6	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 20.9		µg/kg dry	20.9	18.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.9		µg/kg dry	20.9	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.9		µg/kg dry	20.9	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.9		µg/kg dry	20.9	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.9		µg/kg dry	20.9	17.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.9		µg/kg dry	20.9	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.9		µg/kg dry	20.9	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.9		µg/kg dry	20.9	8.61	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**93.3**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-ECN01(8)-1 SB73732-19	60225155 MISA0600	Soil	24-Jul-13 13:32	24-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.7		µg/kg dry	21.7	16.2	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 21.7		µg/kg dry	21.7	19.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.7		µg/kg dry	21.7	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.7		µg/kg dry	21.7	13.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**525**		µg/kg dry	21.7	9.53	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.7		µg/kg dry	21.7	18.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.7		µg/kg dry	21.7	13.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.7		µg/kg dry	21.7	20.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.7		µg/kg dry	21.7	8.96	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.5**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-ECN02(8)-1 SB73732-20	60225155 MISA0600	Soil	24-Jul-13 13:35	24-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.5		µg/kg dry	21.5	16.1	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317547	X
11104-28-2	Aroclor-1221	< 21.5		µg/kg dry	21.5	19.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.5		µg/kg dry	21.5	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.5		µg/kg dry	21.5	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.5		µg/kg dry	21.5	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.5		µg/kg dry	21.5	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.5		µg/kg dry	21.5	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.5		µg/kg dry	21.5	20.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.5		µg/kg dry	21.5	8.89	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.4**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-ED00(3)-1	60225155 MISA0600	Soil	24-Jul-13 13:42	24-Jul-13
SB73732-21				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 111	R01	µg/kg dry	111	82.7	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 111	R01	µg/kg dry	111	99.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 111	R01	µg/kg dry	111	71.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 111	R01	µg/kg dry	111	66.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 111	R01	µg/kg dry	111	57.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.2		µg/kg dry	22.2	18.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.2		µg/kg dry	22.2	13.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.2		µg/kg dry	22.2	20.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.2		µg/kg dry	22.2	9.14	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.7**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-EDN01(3)-1 SB73732-22	60225155 MISA0600	Soil	24-Jul-13 13:43	24-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 109	R01	µg/kg dry	109	81.2	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 109	R01	µg/kg dry	109	97.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 109	R01	µg/kg dry	109	69.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 109	R01	µg/kg dry	109	65.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 109	R01	µg/kg dry	109	56.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.7		µg/kg dry	21.7	18.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.7		µg/kg dry	21.7	13.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.7		µg/kg dry	21.7	20.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.7		µg/kg dry	21.7	8.96	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.7**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-EDS01(3)-1 SB73732-23	60225155 MISA0600	Soil	24-Jul-13 13:47	24-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.4		µg/kg dry	21.4	16.0	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 21.4		µg/kg dry	21.4	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.4		µg/kg dry	21.4	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.4		µg/kg dry	21.4	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**2,330**		µg/kg dry	21.4	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.4		µg/kg dry	21.4	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**55.7**		µg/kg dry	21.4	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.83	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*655*	S02		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.3**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-EDS02(3) SB73732-24	60225155 MISA0600	Soil	24-Jul-13 13:50	24-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.1		µg/kg dry	22.1	16.5	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 22.1		µg/kg dry	22.1	19.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.1		µg/kg dry	22.1	14.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.1		µg/kg dry	22.1	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	117		µg/kg dry	22.1	9.70	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.1		µg/kg dry	22.1	18.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.1		µg/kg dry	22.1	13.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.1		µg/kg dry	22.1	20.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.1		µg/kg dry	22.1	9.12	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	85.3		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-EDN02(3)-1 SB73732-25	60225155 MISA0600	Soil	24-Jul-13 13:45	24-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 24.1		µg/kg dry	24.1	18.0	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 24.1		µg/kg dry	24.1	21.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 24.1		µg/kg dry	24.1	15.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 24.1		µg/kg dry	24.1	14.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 24.1		µg/kg dry	24.1	12.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 24.1		µg/kg dry	24.1	20.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 24.1		µg/kg dry	24.1	14.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 24.1		µg/kg dry	24.1	22.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 24.1		µg/kg dry	24.1	9.93	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**79.4**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-WB00(8)-1 SB73732-26	60225155 MISA0600	Soil	24-Jul-13 13:52	24-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 109	R01	µg/kg dry	109	81.7	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 109	R01	µg/kg dry	109	98.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 109	R01	µg/kg dry	109	70.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 109	R01	µg/kg dry	109	65.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 109	R01	µg/kg dry	109	56.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.9		µg/kg dry	21.9	18.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.9		µg/kg dry	21.9	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.9		µg/kg dry	21.9	20.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.9		µg/kg dry	21.9	9.02	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**87.0**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317598	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-WBN01(8)-1 SB73732-27	60225155 MISA0600	Soil	24-Jul-13 13:53	24-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	15.7	1	SW846 8082A	24-Jul-13	25-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	19.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	480		µg/kg dry	21.0	9.23	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.0		µg/kg dry	21.0	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.0		µg/kg dry	21.0	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.68	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	91.4		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317602	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-WBN02(8)-1 SB73732-28	60225155 MISA0600	Soil	24-Jul-13 13:53	24-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			GS1										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 448	D	µg/kg dry	448	335	20	SW846 8082A	24-Jul-13	26-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 448	D	µg/kg dry	448	404	20	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 448	D	µg/kg dry	448	288	20	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 448	D	µg/kg dry	448	270	20	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**23,700**	D	µg/kg dry	448	197	20	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 448	D	µg/kg dry	448	374	20	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**628**	D	µg/kg dry	448	224	20	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 448	D	µg/kg dry	448	418	20	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 448	D	µg/kg dry	448	185	20	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*0*	S01		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*0*	S01		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*0*	S01		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*0*	S01		*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**84.7**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317602	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-WBN03(3)-1 SB73732-29	60225155 MISA0600	Soil	24-Jul-13 13:55	24-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 106	R01	µg/kg dry	106	79.2	1	SW846 8082A	24-Jul-13	26-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 106	R01	µg/kg dry	106	95.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 106	R01	µg/kg dry	106	68.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 106	R01	µg/kg dry	106	63.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 106	R01	µg/kg dry	106	55.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.2		µg/kg dry	21.2	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.74	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.3**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317602	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-WBS01(8)-1 SB73732-30	60225155 MISA0600	Soil	24-Jul-13 13:57	24-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.0		µg/kg dry	22.0	16.5	1	SW846 8082A	24-Jul-13	26-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 22.0		µg/kg dry	22.0	19.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.0		µg/kg dry	22.0	14.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.0		µg/kg dry	22.0	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**611**		µg/kg dry	22.0	11.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.0		µg/kg dry	22.0	18.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	< 22.0		µg/kg dry	22.0	11.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.09	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*205*	S02		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.5**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317602	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-WBS02(8)-1	60225155 MISA0600	Soil	24-Jul-13 14:07	24-Jul-13
SB73732-31				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			GS1										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 212	D	µg/kg dry	212	159	10	SW846 8082A	24-Jul-13	26-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 212	D	µg/kg dry	212	191	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 212	D	µg/kg dry	212	136	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 212	D	µg/kg dry	212	128	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**8,550**	D	µg/kg dry	212	110	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 212	D	µg/kg dry	212	177	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	< 212	D	µg/kg dry	212	106	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 212	D	µg/kg dry	212	198	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 212	D	µg/kg dry	212	87.6	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.0**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317602	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-WBS03(3)-1 SB73732-32	60225155 MISA0600	Soil	24-Jul-13 14:00	24-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.1		µg/kg dry	22.1	16.5	1	SW846 8082A	24-Jul-13	26-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 22.1		µg/kg dry	22.1	19.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.1		µg/kg dry	22.1	14.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.1		µg/kg dry	22.1	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**3,020**		µg/kg dry	22.1	9.71	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.1		µg/kg dry	22.1	18.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**94.0**		µg/kg dry	22.1	11.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.1		µg/kg dry	22.1	20.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.1		µg/kg dry	22.1	9.12	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*195*	S02		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.1**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317602	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-WC00(7)-1 SB73732-33	60225155 MISA0600	Soil	24-Jul-13 14:22	24-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	16.1	1	SW846 8082A	24-Jul-13	26-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**141**		µg/kg dry	21.6	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.6		µg/kg dry	21.6	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.6		µg/kg dry	21.6	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.91	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.3**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317602	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-WCS01(7)-1 SB73732-34	60225155 MISA0600	Soil	24-Jul-13 14:47	24-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.7		µg/kg dry	22.7	16.9	1	SW846 8082A	24-Jul-13	26-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 22.7		µg/kg dry	22.7	20.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.7		µg/kg dry	22.7	14.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.7		µg/kg dry	22.7	13.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**3,090**		µg/kg dry	22.7	9.94	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.7		µg/kg dry	22.7	18.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**98.5**		µg/kg dry	22.7	14.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.7		µg/kg dry	22.7	21.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.7		µg/kg dry	22.7	9.34	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*320*	S02		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**85.4**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317602	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-WCN01(7)-1 SB73732-35	60225155 MISA0600	Soil	24-Jul-13 14:25	24-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	24-Jul-13	26-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.8		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.8		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.57	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.7**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317602	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-WCN02(3)-1 SB73732-36	60225155 MISA0600	Soil	24-Jul-13 14:25	24-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 107	R01	µg/kg dry	107	79.7	1	SW846 8082A	24-Jul-13	26-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 107	R01	µg/kg dry	107	96.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 107	R01	µg/kg dry	107	68.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 107	R01	µg/kg dry	107	64.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 107	R01	µg/kg dry	107	55.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.80	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**93.7**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317602	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-WCS02(3)-1 SB73732-37	60225155 MISA0600	Soil	24-Jul-13 14:29	24-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 109	R01	µg/kg dry	109	81.6	1	SW846 8082A	24-Jul-13	26-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 109	R01	µg/kg dry	109	98.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 109	R01	µg/kg dry	109	70.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 109	R01	µg/kg dry	109	65.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 109	R01	µg/kg dry	109	56.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.8		µg/kg dry	21.8	18.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.8		µg/kg dry	21.8	13.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.8		µg/kg dry	21.8	20.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.8		µg/kg dry	21.8	9.01	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*150*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.7**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317602	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-WD00(3)-1	60225155 MISA0600	Soil	24-Jul-13 14:30	24-Jul-13
SB73732-38				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 106	R01	µg/kg dry	106	79.4	1	SW846 8082A	24-Jul-13	26-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 106	R01	µg/kg dry	106	95.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 106	R01	µg/kg dry	106	68.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 106	R01	µg/kg dry	106	63.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 106	R01	µg/kg dry	106	55.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.77	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.8**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317602	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-WDN01(3)-1 SB73732-39	60225155 MISA0600	Soil	24-Jul-13 14:35	24-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 106	R01	µg/kg dry	106	79.1	1	SW846 8082A	24-Jul-13	26-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 106	R01	µg/kg dry	106	95.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 106	R01	µg/kg dry	106	68.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 106	R01	µg/kg dry	106	63.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 106	R01	µg/kg dry	106	55.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.2		µg/kg dry	21.2	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.74	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.7**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317602	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1a-WDS01(3)-1 SB73732-40	60225155 MISA0600	Soil	24-Jul-13 14:32	24-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 109	R01	µg/kg dry	109	81.3	1	SW846 8082A	24-Jul-13	26-Jul-13	BLM	1317548	X
11104-28-2	Aroclor-1221	< 109	R01	µg/kg dry	109	98.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 109	R01	µg/kg dry	109	69.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 109	R01	µg/kg dry	109	65.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 109	R01	µg/kg dry	109	56.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.8		µg/kg dry	21.8	18.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.8		µg/kg dry	21.8	13.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.8		µg/kg dry	21.8	20.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.8		µg/kg dry	21.8	8.98	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.1**		%			1	SM2540 G Mod.	25-Jul-13	25-Jul-13	DT	1317602	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1317547 - SW846 3540C										
Blank (1317547-BLK1)					Prepared: 24-Jul-13 Analyzed: 25-Jul-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*27.0*		µg/kg wet		*20.0*		*135*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*27.0*		µg/kg wet		*20.0*		*135*	*30-150*		
LCS (1317547-BS1)					Prepared: 24-Jul-13 Analyzed: 25-Jul-13					
Aroclor-1016	**304**		µg/kg wet	20.0	250		122	40-140		
Aroclor-1016 [2C]	**292**		µg/kg wet	20.0	250		117	40-140		
Aroclor-1260	**311**		µg/kg wet	20.0	250		124	40-140		
Aroclor-1260 [2C]	**310**		µg/kg wet	20.0	250		124	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*29.0*		µg/kg wet		*20.0*		*145*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*28.0*		µg/kg wet		*20.0*		*140*	*30-150*		
LCS Dup (1317547-BSD1)					Prepared: 24-Jul-13 Analyzed: 25-Jul-13					
Aroclor-1016	**305**		µg/kg wet	20.0	250		122	40-140	0.3	30
Aroclor-1016 [2C]	**295**		µg/kg wet	20.0	250		118	40-140	1	30
Aroclor-1260	**306**		µg/kg wet	20.0	250		122	40-140	2	30
Aroclor-1260 [2C]	**316**		µg/kg wet	20.0	250		126	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*29.0*		µg/kg wet		*20.0*		*145*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*27.0*		µg/kg wet		*20.0*		*135*	*30-150*		
Duplicate (1317547-DUP1)			**Source: SB73732-01**		Prepared: 24-Jul-13 Analyzed: 25-Jul-13					
Aroclor-1016	< 20.4		µg/kg dry	20.4		BRL				30
Aroclor-1016 [2C]	< 20.4		µg/kg dry	20.4		BRL				30
Aroclor-1221	< 20.4		µg/kg dry	20.4		BRL				30
Aroclor-1221 [2C]	< 20.4		µg/kg dry	20.4		BRL				30
Aroclor-1232	< 20.4		µg/kg dry	20.4		BRL				30
Aroclor-1232 [2C]	< 20.4		µg/kg dry	20.4		BRL				30
Aroclor-1242	< 20.4		µg/kg dry	20.4		BRL				30
Aroclor-1242 [2C]	< 20.4		µg/kg dry	20.4		BRL				30
Aroclor-1248	**2390**		µg/kg dry	20.4		2720			13	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1317547 - SW846 3540C										
Duplicate (1317547-DUP1)			**Source: SB73732-01**		Prepared: 24-Jul-13 Analyzed: 25-Jul-13					
Aroclor-1248 [2C]	**2400**		µg/kg dry	20.4		2180			9	30
Aroclor-1254	< 20.4		µg/kg dry	20.4		BRL				30
Aroclor-1254 [2C]	< 20.4		µg/kg dry	20.4		BRL				30
Aroclor-1260	**60.3**		µg/kg dry	20.4		50.4			18	30
Aroclor-1260 [2C]	**52.1**		µg/kg dry	20.4		42.7			20	30
Aroclor-1262	< 20.4		µg/kg dry	20.4		BRL				30
Aroclor-1262 [2C]	< 20.4		µg/kg dry	20.4		BRL				30
Aroclor-1268	< 20.4		µg/kg dry	20.4		BRL				30
Aroclor-1268 [2C]	< 20.4		µg/kg dry	20.4		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*30.6*		µg/kg dry		*20.4*		*150*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*18.4*		µg/kg dry		*20.4*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*30.6*		µg/kg dry		*20.4*		*150*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*28.6*		µg/kg dry		*20.4*		*140*	*30-150*		
Matrix Spike (1317547-MS1)			**Source: SB73732-01**		Prepared: 24-Jul-13 Analyzed: 25-Jul-13					
Aroclor-1016	**2330**	QM1	µg/kg dry	21.8	272	BRL	856	40-140		
Aroclor-1016 [2C]	**1190**	QM1	µg/kg dry	21.8	272	BRL	436	40-140		
Aroclor-1260	**298**		µg/kg dry	21.8	272	50.4	91	40-140		
Aroclor-1260 [2C]	**346**		µg/kg dry	21.8	272	42.7	111	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.7*		µg/kg dry		*21.8*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*19.6*		µg/kg dry		*21.8*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*26.1*		µg/kg dry		*21.8*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*31.5*		µg/kg dry		*21.8*		*145*	*30-150*		
Matrix Spike Dup (1317547-MSD1)			**Source: SB73732-01**		Prepared: 24-Jul-13 Analyzed: 25-Jul-13					
Aroclor-1016	**2620**	QM1	µg/kg dry	21.6	271	BRL	967	40-140	12	30
Aroclor-1016 [2C]	**1860**	QM1, QR5	µg/kg dry	21.6	271	BRL	689	40-140	45	30
Aroclor-1260	**252**		µg/kg dry	21.6	271	50.4	75	40-140	20	30
Aroclor-1260 [2C]	**410**		µg/kg dry	21.6	271	42.7	136	40-140	20	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.4*		µg/kg dry		*21.6*		*85*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.7*		µg/kg dry		*21.6*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.6*		µg/kg dry		*21.6*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*35.7*	S02	µg/kg dry		*21.6*		*165*	*30-150*		
Batch 1317548 - SW846 3540C										
Blank (1317548-BLK1)					Prepared: 24-Jul-13 Analyzed: 25-Jul-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1317548 - SW846 3540C										
Blank (1317548-BLK1)					Prepared: 24-Jul-13 Analyzed: 25-Jul-13					
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*26.0*		µg/kg wet		*20.0*		*130*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
LCS (1317548-BS1)					Prepared: 24-Jul-13 Analyzed: 25-Jul-13					
Aroclor-1016	**336**		µg/kg wet	20.0	250		134	40-140		
Aroclor-1016 [2C]	**311**		µg/kg wet	20.0	250		124	40-140		
Aroclor-1260	**308**		µg/kg wet	20.0	250		123	40-140		
Aroclor-1260 [2C]	**312**		µg/kg wet	20.0	250		125	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*28.0*		µg/kg wet		*20.0*		*140*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*26.0*		µg/kg wet		*20.0*		*130*	*30-150*		
LCS Dup (1317548-BSD1)					Prepared: 24-Jul-13 Analyzed: 25-Jul-13					
Aroclor-1016	**309**		µg/kg wet	20.0	250		124	40-140	8	30
Aroclor-1016 [2C]	**289**		µg/kg wet	20.0	250		116	40-140	7	30
Aroclor-1260	**302**		µg/kg wet	20.0	250		121	40-140	2	30
Aroclor-1260 [2C]	**304**		µg/kg wet	20.0	250		122	40-140	3	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*28.0*		µg/kg wet		*20.0*		*140*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*26.0*		µg/kg wet		*20.0*		*130*	*30-150*		
Duplicate (1317548-DUP1)			**Source: SB73732-21**		Prepared: 24-Jul-13 Analyzed: 25-Jul-13					
Aroclor-1016	< 109	R01	µg/kg dry	109		BRL				30
Aroclor-1016 [2C]	< 109	R01	µg/kg dry	109		BRL				30
Aroclor-1221	< 109	R01	µg/kg dry	109		BRL				30
Aroclor-1221 [2C]	< 109	R01	µg/kg dry	109		BRL				30
Aroclor-1232	< 109	R01	µg/kg dry	109		BRL				30
Aroclor-1232 [2C]	< 109	R01	µg/kg dry	109		BRL				30
Aroclor-1242	< 109	R01	µg/kg dry	109		BRL				30
Aroclor-1242 [2C]	< 109	R01	µg/kg dry	109		BRL				30
Aroclor-1248	< 109	R01	µg/kg dry	109		BRL				30
Aroclor-1248 [2C]	< 109	R01	µg/kg dry	109		BRL				30
Aroclor-1254	< 21.8		µg/kg dry	21.8		BRL				30
Aroclor-1254 [2C]	< 21.8		µg/kg dry	21.8		BRL				30
Aroclor-1260	< 21.8		µg/kg dry	21.8		BRL				30
Aroclor-1260 [2C]	< 21.8		µg/kg dry	21.8		BRL				30
Aroclor-1262	< 21.8		µg/kg dry	21.8		BRL				30
Aroclor-1262 [2C]	< 21.8		µg/kg dry	21.8		BRL				30
Aroclor-1268	< 21.8		µg/kg dry	21.8		BRL				30
Aroclor-1268 [2C]	< 21.8		µg/kg dry	21.8		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*32.7*		µg/kg dry		*21.8*		*150*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.9*		µg/kg dry		*21.8*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*32.7*		µg/kg dry		*21.8*		*150*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*30.5*		µg/kg dry		*21.8*		*140*	*30-150*		
Matrix Spike (1317548-MS1)			**Source: SB73732-21**		Prepared: 24-Jul-13 Analyzed: 25-Jul-13					
Aroclor-1016	**1260**	QM7	µg/kg dry	21.5	269	BRL	468	40-140		
Aroclor-1016 [2C]	**348**		µg/kg dry	21.5	269	BRL	129	40-140		
Aroclor-1260	**268**		µg/kg dry	21.5	269	BRL	100	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1317548 - SW846 3540C										
Matrix Spike (1317548-MS1)			**Source: SB73732-21**			Prepared: 24-Jul-13 Analyzed: 25-Jul-13				
Aroclor-1260 [2C]	**228**		µg/kg dry	21.5	269	BRL	85	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.7*		µg/kg dry		*21.5*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*23.7*		µg/kg dry		*21.5*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.8*		µg/kg dry		*21.5*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*21.5*		µg/kg dry		*21.5*		*100*	*30-150*		
Matrix Spike Dup (1317548-MSD1)			**Source: SB73732-21**			Prepared: 24-Jul-13 Analyzed: 25-Jul-13				
Aroclor-1016	**1400**	QM7	µg/kg dry	22.0	275	BRL	510	40-140	8	30
Aroclor-1016 [2C]	**399**	QM7	µg/kg dry	22.0	275	BRL	145	40-140	12	30
Aroclor-1260	**276**		µg/kg dry	22.0	275	BRL	100	40-140	0.8	30
Aroclor-1260 [2C]	**298**		µg/kg dry	22.0	275	BRL	108	40-140	24	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*26.4*		µg/kg dry		*22.0*		*120*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.9*		µg/kg dry		*22.0*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*27.5*		µg/kg dry		*22.0*		*125*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*29.7*		µg/kg dry		*22.0*		*135*	*30-150*		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1317598 - General Preparation										
Duplicate (1317598-DUP1)			**Source: SB73732-07**			Prepared & Analyzed: 25-Jul-13				
% Solids	**89.1**		%			90.2			1	20
Batch 1317602 - General Preparation										
Duplicate (1317602-DUP1)			**Source: SB73732-27**			Prepared & Analyzed: 25-Jul-13				
% Solids	**91.1**		%			91.4			0.3	20

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
P	Difference between the two GC columns is greater than 40%.
QM1	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR5	RPD out of acceptance range.
R01	The Reporting Limit has been raised to account for matrix interference.
S01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
June O'Connor
Kimberly Wisk

SB73732 JP

AECOM Chain Of Custody Record

COC ID: COC_GHS MISA_AOC1a | Page: 1 of 4

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-1a	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aeocm.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED		ADDITIONAL INFORMATION
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV. Store cool at 4°C / ANALYSIS W-PCBs-Soxhelt Extraction 8280/3551		
AOC-1a-AA00(8)-1 73732-01	Soil	7/24/2013	1300	G=Grab	1	X		
AOC-1a-AAS01(8)-1 02	Soil	7/24/2013	1306	G=Grab	1	X		
AOC-1a-AAS02(8)-1 03	Soil	7/24/2013	1307	G=Grab	1	X		
AOC-1a-AAS03(3)-1 04	Soil	7/24/2013	1308	G=Grab	1	X		
AOC-1a-AAN01(8)-1 05	Soil	7/24/2013	1308	G=Grab	1	X		
1AOC-1a-AAN02(8)-1 06	Soil	7/24/2013	1304	G=Grab	1	X		
AOC-1a-AAN03(3)-1 07	Soil	7/24/2013	1305	G=Grab	1	X		
AOC-1a-EB00(8)-1 08	Soil	7/24/2013	1309	G=Grab	1	X		
AOC-1a-EBN01(8)-1 09	Soil	7/24/2013	1310	G=Grab	1	X		
AOC-1a-EBN02(8)-1 10	Soil	7/24/2013	1315	G=Grab	1	X		

Additional Comments/Special Instructions		Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples	Julie W JET	7-24-13	1520		JET / Tampa K	7-24-13			Y / N	Y / N	Y / N
						7-24-13	1830		Y / N	Y / N	Y / N
									Y / N	Y / N	Y / N

Sampler's Name	Julie Williams	Mobile #	631-786-6107	Temp in °C	Samples on ice?	Sample intact?	Trip Blank?
Sampler's Signature							

0.2/0/0.2 IR 02

13732 JD

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC1a | Page: 2 of 4

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-1a	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aeocm.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED		ADDITIONAL INFORMATION
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV. Store cool at 4°C	ANALYSIS W-PCBs-Soxhelt Extraction 8280/3551	
AOC-1a-EBN03(3)-1 73732-11	Soil	7/24/2013	1317	G=Grab	1		X	
AOC-1a-EBS01(8)-1 12	Soil	7/24/2013	1320	G=Grab	1		X	
AOC-1a-EBS02(7)-1 13	Soil	7/24/2013	1322	G=Grab	1		X	
AOC-1a-EBS03(3)-1 14	Soil	7/24/2013	1325	G=Grab	1		X	
AOC-1a-EC00(8)-1 15	Soil	7/24/2013	1330	G=Grab	1		X	
AOC-1a-ECS01(8)-1 16	Soil	7/24/2013	1336	G=Grab	1		X	
AOC-1a-ECS02(8)-1 17	Soil	7/24/2013	1337	G=Grab	1		X	
AOC-1a-ECS03(3)-1 18	Soil	7/24/2013	1340	G=Grab	1		X	
AOC-1a-ECN01(8)-1 19	Soil	7/24/2013	1332	G=Grab	1		X	
AOC-1a-ECN02(8)-1 20	Soil	7/24/2013	1335	G=Grab	1		X	

Additional Comments/Special Instructions		Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples		7-24-13	1520		Jat	7-24-13			Y / N	Y / N	Y / N
					Jat / Tamy K	7-24-13	18:30		Y / N	Y / N	Y / N
									Y / N	Y / N	Y / N

				Temp in °C	Samples on ice?	Sample intact?	Trip Blank?
Sampler's Name	Julie Williams	Mobile #	631-786-6107				
Sampler's Signature							

0.2/0.2 IR 02

13132

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC1a | Page: 3 of 4

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-1a	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED											ADDITIONAL INFORMATION
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV. Store cool at 4°C											
						ANALYSIS	W-PCBs-Soxhelt Extraction 8280/3551										
AOC-1a-ED00(3)-1 13132-21	Soil	7/24/2013	1342	G=Grab	1		X										
AOC-1a-EDN01(3)-1 22	Soil	7/24/2013	1343	G=Grab	1		X										
AOC-1a-EDS01(3)-1 23	Soil	7/24/2013	1347	G=Grab	1		X										
AOC-1a-EDS02(3) 24	Soil	7/24/2013	1350	G=Grab	1		X										
AOC-1a-EDN02(3)-1 25	Soil	7/24/2013	1345	G=Grab	1		X										
AOC-1a-WB00(8)-1 26	Soil	7/24/2013	1352	G=Grab	1		X										
AOC-1a-WBN01(8)-1 27	Soil	7/24/2013	1353	G=Grab	1		X										
AOC-1a-WBN02(8)-1 28	Soil	7/24/2013	1353	G=Grab	1		X										
AOC-1a-WBN03(3)-1 29	Soil	7/24/2013	1355	G=Grab	1		X										
AOC-1a-WB501(8)-1 30	Soil	7/24/2013	1357	G=Grab	1		X										

Additional Comments/Special Instructions		Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples	Julie Williams jet	7/24/13	1520		jet Tamsett	7/24/13	18:30		Y / N	Y / N	Y / N
									Y / N	Y / N	Y / N
									Y / N	Y / N	Y / N
									Y / N	Y / N	Y / N

Sampler's Name	Julie Williams	Mobile #	631-786-6107	Temp in °C	Samples on ice?	Sample intact?	Trip Blank?
Sampler's Signature							

0.2/0.2 IR 02

8B73732

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC1a | Page: 4 of 4

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-1a	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED		ADDITIONAL INFORMATION
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV. / ANALYSIS: Store cool at 4°C / W-PCBs-Soxhelt Extraction 8280/3551		
AOC-1a-WBS02(8)-1 73732-31	Soil	7/24/2013	1407	G=Grab	1		X	
AOC-1a-WBS03(3)-1 32	Soil	7/24/2013	1400	G=Grab	1		X	
AOC-1a-WC00(7)-1 33	Soil	7/24/2013	1422	G=Grab	1		X	
AOC-1a-WCS01(7)-1 34	Soil	7/24/2013	1447	G=Grab	1		X	
AOC-1a-WCN01(7)-1 35	Soil	7/24/2013	1425	G=Grab	1		X	
AOC-1a-WCN02(3)-1 36	Soil	7/24/2013	1425	G=Grab	1		X	
AOC-1a-WCS02(3)-1 37	Soil	7/24/2013	1429	G=Grab	1		X	
AOC-1a-WD00(3)-1 38	Soil	7/24/2013	1430	G=Grab	1		X	
AOC-1a-WDN01(3)-1 39	Soil	7/24/2013	1435	G=Grab	1		X	
AOC-1a-WDS01(3)-1 40	Soil	7/24/2013	1432	G=Grab	1		X	

Additional Comments/Special Instructions		Date	Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples	Julie Williams	7-24-13	1520					Y / N	Y / N	Y / N
					7/24/13	18:30		Y / N	Y / N	Y / N
								Y / N	Y / N	Y / N

				Temp in °C	Samples on ice?	Sample intact?	Trip Blank?
Sampler's Name	Julie Williams	Mobile #	631-786-6107				
Sampler's Signature							

0.2/0.2 IR 02

SB73732 JP

AECOM Chain Of Custody Record

COC ID: COC_GHS MISA_AOC1a | Page: 1 of 4

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-1a	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED										ADDITIONAL INFORMATION
						PRESERV.	Store cool at 4°C	7196								
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	ANALYSIS	W-PCBs-Soxhelt Extraction 3540/3541	8082/3540								
AOC-1a-AA00(8)-1 73732-01	Soil	7/24/2013	1300	G=Grab	1		X									8082/3540 per client request EM 7/26
AOC-1a-AAS01(8)-1 02	Soil	7/24/2013	1306	G=Grab	1		X									
AOC-1a-AAS02(8)-1 03	Soil	7/24/2013	1307	G=Grab	1		X									
AOC-1a-AAS03(3)-1 04	Soil	7/24/2013	1308	G=Grab	1		X									
AOC-1a-AAN01(8)-1 05	Soil	7/24/2013	1308	G=Grab	1		X									
1AOC-1a-AAN02(8)-1 06	Soil	7/24/2013	1304	G=Grab	1		X									
AOC-1a-AAN03(3)-1 07	Soil	7/24/2013	1305	G=Grab	1		X									
AOC-1a-EB00(8)-1 08	Soil	7/24/2013	1309	G=Grab	1		X									
AOC-1a-EBN01(8)-1 09	Soil	7/24/2013	1310	G=Grab	1		X									
AOC-1a-EBN02(8)-1 10	Soil	7/24/2013	1315	G=Grab	1		X									

Additional Comments/Special Instructions		Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples	Julie W	7-24-13	1520		Jet	7-24-13			Y / N	Y / N	Y / N
	Jet				Tony K	7-24-13	1830		Y / N	Y / N	Y / N
									Y / N	Y / N	Y / N

Sampler's Name	Julie Williams	Mobile #	631-786-6107	Temp in °C	Samples on ice?	Sample intact?	Trip Blank?
Sampler's Signature							

0.2/0/0.2 IR 02

13732 JD

AECOM Chain Of Custody Record

COC ID: COC_GHS MISA_AOC1a | Page: 2 of 4

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-1a	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED		ADDITIONAL INFORMATION
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV: Store cool at 4°C	ANALYSIS: W-PCBs-Soxhelt Extraction 8082/3540	
AOC-1a-EBN03(3)-1 13732-11	Soil	7/24/2013	1317	G=Grab	1		X	
AOC-1a-EBS01(8)-1 12	Soil	7/24/2013	1320	G=Grab	1		X	
AOC-1a-EBS02(7)-1 13	Soil	7/24/2013	1322	G=Grab	1		X	
AOC-1a-EBS03(3)-1 14	Soil	7/24/2013	1325	G=Grab	1		X	
AOC-1a-EC00(8)-1 15	Soil	7/24/2013	1330	G=Grab	1		X	
AOC-1a-ECS01(8)-1 16	Soil	7/24/2013	1336	G=Grab	1		X	
AOC-1a-ECS02(8)-1 17	Soil	7/24/2013	1337	G=Grab	1		X	
AOC-1a-ECS03(3)-1 18	Soil	7/24/2013	1340	G=Grab	1		X	
AOC-1a-ECN01(8)-1 19	Soil	7/24/2013	1332	G=Grab	1		X	
AOC-1a-ECN02(8)-1 20	Soil	7/24/2013	1335	G=Grab	1		X	

Additional Comments/Special Instructions		Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples		7-24-13	1520			7-24-13		(Y) / N	Y / N	Y / N	Y / N
						7/24/13 1830		Y / N	Y / N	Y / N	Y / N
								Y / N	Y / N	Y / N	Y / N

Sampler's Name	Julie Williams	Mobile #	631-786-6107	Temp in °C	Samples on ice?	Sample intact?	Trip Blank?
Sampler's Signature							

0.2/0/0.2 IR02

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC1a | Page: 3 of 4

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-1a	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED		ADDITIONAL INFORMATION
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV. Store cool at 4°C / ANALYSIS W-PCBs-Soxhelt Extraction 8082/3551		
AOC-1a-ED00(3)-1	Soil	7/24/2013	1342	G=Grab	1	X		
AOC-1a-EDN01(3)-1	Soil	7/24/2013	1343	G=Grab	1	X		
AOC-1a-EDS01(3)-1	Soil	7/24/2013	1347	G=Grab	1	X		
AOC-1a-EDS02(3)	Soil	7/24/2013	1350	G=Grab	1	X		
AOC-1a-EDN02(3)-1	Soil	7/24/2013	1345	G=Grab	1	X		
AOC-1a-WB00(8)-1	Soil	7/24/2013	1352	G=Grab	1	X		
AOC-1a-WBN01(8)-1	Soil	7/24/2013	1353	G=Grab	1	X		
AOC-1a-WBN02(8)-1	Soil	7/24/2013	1353	G=Grab	1	X		
AOC-1a-WBN03(3)-1	Soil	7/24/2013	1355	G=Grab	1	X		
AOC-1a-WBS01(8)-1	Soil	7/24/2013	1357	G=Grab	1	X		

Additional Comments/Special Instructions		Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples	Julie Williams jw	7-24-13	1520		jw Tamsyn	7-24-13	18:30		Y / N	Y / N	Y / N
									Y / N	Y / N	Y / N
									Y / N	Y / N	Y / N

Sampler's Name	Julie Williams	Mobile #	631-786-6107
Sampler's Signature			

Temp in °C	Samples on ice?	Sample intact?	Trip Blank?

0.2/0/6.1 IR 02

8B13732

AECOM Chain Of Custody Record

COC ID: COC_GHS MISA_AOC1a | Page: 4 of 4

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-1a	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED										ADDITIONAL INFORMATION
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV. / ANALYSIS: Store cool at 4°C; W-PCBs-Soxhelt Extraction 8270/3541	8082A 3540	Soil								
AOC-1a-WBS02(8)-1 731323 1	Soil	7/24/2013	1407	G=Grab	1	X										
AOC-1a-WBS03(3)-1 32	Soil	7/24/2013	1400	G=Grab	1	X										
AOC-1a-WC00(7)-1 33	Soil	7/24/2013	1422	G=Grab	1	X										
AOC-1a-WCS01(7)-1 34	Soil	7/24/2013	1447	G=Grab	1	X										
AOC-1a-WCN01(7)-1 35	Soil	7/24/2013	1425	G=Grab	1	X										
AOC-1a-WCN02(3)-1 36	Soil	7/24/2013	1425	G=Grab	1	X										
AOC-1a-WCS02(3)-1 37	Soil	7/24/2013	1429	G=Grab	1	X										
AOC-1a-WD00(3)-1 38	Soil	7/24/2013	1430	G=Grab	1	X										
AOC-1a-WDN01(3)-1 39	Soil	7/24/2013	1435	G=Grab	1	X										
AOC-1a-WDS01(3)-1 40	Soil	7/24/2013	1432	G=Grab	1	X										

Additional Comments/Special Instructions		Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples	Julie Williams	7-24-13	1520			7/24/13	18:30		Y / N	Y / N	Y / N
									Y / N	Y / N	Y / N
									Y / N	Y / N	Y / N

Sampler's Name	Julie Williams	Mobile #	631-786-6107
Sampler's Signature			

Temp in °C	Samples on ice?	Sample intact?	Trip Blank?

0.2/0/0.2 IR 02

Report Date:
30-Jul-13 16:30

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: GHS- MISA - Greenwich, CT
Project #: 60225155

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB73888-01	AOC-1B-AA00(6)-1	Soil	26-Jul-13 13:20	26-Jul-13 20:15
SB73888-02	AOC-1B-AAN01(6)-1	Soil	26-Jul-13 13:22	26-Jul-13 20:15
SB73888-03	AOC-1B-AAN02(6)-1	Soil	26-Jul-13 13:24	26-Jul-13 20:15
SB73888-04	AOC-1B-AAN03(3)-1	Soil	26-Jul-13 13:26	26-Jul-13 20:15
SB73888-05	AOC-1B-AAS01(6)-1	Soil	26-Jul-13 13:28	26-Jul-13 20:15
SB73888-06	AOC-1B-AAS02(6)-1	Soil	26-Jul-13 13:30	26-Jul-13 20:15
SB73888-07	AOC-1B-AAS03(3)-1	Soil	26-Jul-13 13:32	26-Jul-13 20:15
SB73888-08	AOC-1B-EB00(6)-1	Soil	26-Jul-13 13:35	26-Jul-13 20:15
SB73888-09	AOC-1B-EBN01(6)-1	Soil	26-Jul-13 13:37	26-Jul-13 20:15
SB73888-10	AOC-1B-EBN02(4)-1	Soil	26-Jul-13 13:39	26-Jul-13 20:15
SB73888-11	AOC-1B-EBS01(6)-1	Soil	26-Jul-13 13:40	26-Jul-13 20:15
SB73888-12	AOC-1B-EBS02(5)-1	Soil	26-Jul-13 13:42	26-Jul-13 20:15
SB73888-13	AOC-1B-EC00(5)-1	Soil	26-Jul-13 13:44	26-Jul-13 20:15
SB73888-14	AOC-1B-ECN01(4)-1	Soil	26-Jul-13 13:46	26-Jul-13 20:15
SB73888-15	AOC-1B-ECS01(4)-1	Soil	26-Jul-13 13:50	26-Jul-13 20:15
SB73888-16	AOC-1B-WB00(6)-1	Soil	26-Jul-13 13:52	26-Jul-13 20:15
SB73888-17	AOC-1B-WBN01(6)-1	Soil	26-Jul-13 13:55	26-Jul-13 20:15
SB73888-18	AOC-1B-WBN02(3.5)-1	Soil	26-Jul-13 14:00	26-Jul-13 20:15
SB73888-19	AOC-1B-WBS01(6)-1	Soil	26-Jul-13 14:02	26-Jul-13 20:15
SB73888-20	AOC-1B-WBS02(5)-1	Soil	26-Jul-13 14:04	26-Jul-13 20:15
SB73888-21	AOC-1B-WC00(6)-1	Soil	26-Jul-13 14:06	26-Jul-13 20:15
SB73888-22	AOC-1B-WCN01(6)-1	Soil	26-Jul-13 14:02	26-Jul-13 20:15
SB73888-23	AOC-1B-WCS01(6)-1	Soil	26-Jul-13 14:10	26-Jul-13 20:15
SB73888-24	AOC-1B-WD00(5)-1	Soil	26-Jul-13 14:15	26-Jul-13 20:15

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 35 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: GHS- MISA - Greenwich, CT

Project Number: 60225155

Sampling Date(s):
7/26/2013

Laboratory Sample ID(s):
SB73888-01 through SB73888-24

RCP Methods Used:
SW846 8082A

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 7/30/2013

CASE NARRATIVE:

The samples were received 4.6 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Samples:

SB73888-04 *AOC-1B-AAN03(3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB73888-10 *AOC-1B-EBN02(4)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB73888-18 *AOC-1B-WBN02(3.5)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB73888-20 *AOC-1B-WBS02(5)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB73888-22 *AOC-1B-WCN01(6)-1*

SW846 8082A

Samples:

SB73888-22 *AOC-1B-WCN01(6)-1*

Difference between the two GC columns is greater than 40%.

Aroclor-1248

SB73888-23 *AOC-1B-WCS01(6)-1*

Difference between the two GC columns is greater than 40%.

Aroclor-1248 [2C]

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

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

4,4-DB-Octafluorobiphenyl (Sr)

SB73888-24 *AOC-1B-WD00(5)-1*

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

4,4-DB-Octafluorobiphenyl (Sr)

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	GHS- MISA - Greenwich, CT / 60225155
Work Order:	SB73888
Sample(s) received on:	7/26/2013
Received by:	Terry Brown

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-AA00(6)-1 SB73888-01	60225155	Soil	26-Jul-13 13:20	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	15.7	1	SW846 8082A	26-Jul-13	29-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	18.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**676**		µg/kg dry	21.0	9.22	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.0		µg/kg dry	21.0	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.0		µg/kg dry	21.0	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.66	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**87.8**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317902	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-AAN01(6)-1 SB73888-02	60225155	Soil	26-Jul-13 13:22	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.7		µg/kg dry	20.7	15.5	1	SW846 8082A	26-Jul-13	29-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 20.7		µg/kg dry	20.7	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.7		µg/kg dry	20.7	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.7		µg/kg dry	20.7	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.7		µg/kg dry	20.7	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.7		µg/kg dry	20.7	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.7		µg/kg dry	20.7	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.7		µg/kg dry	20.7	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.7		µg/kg dry	20.7	8.55	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.7**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317902	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-AAN02(6)-1 SB73888-03	60225155	Soil	26-Jul-13 13:24	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	15.9	1	SW846 8082A	26-Jul-13	29-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**400**		µg/kg dry	21.3	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.80	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.7**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317902	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-AAN03(3)-1 SB73888-04	60225155	Soil	26-Jul-13 13:26	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 216	R01	µg/kg dry	216	161	1	SW846 8082A	26-Jul-13	29-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 216	R01	µg/kg dry	216	194	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 216	R01	µg/kg dry	216	138	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 216	R01	µg/kg dry	216	130	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 216	R01	µg/kg dry	216	112	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.6		µg/kg dry	21.6	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.6		µg/kg dry	21.6	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.90	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**85.7**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317902	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-AAS01(6)-1 SB73888-05	60225155	Soil	26-Jul-13 13:28	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.5		µg/kg dry	21.5	16.1	1	SW846 8082A	26-Jul-13	29-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 21.5		µg/kg dry	21.5	19.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.5		µg/kg dry	21.5	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.5		µg/kg dry	21.5	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.5		µg/kg dry	21.5	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.5		µg/kg dry	21.5	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.5		µg/kg dry	21.5	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.5		µg/kg dry	21.5	20.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.5		µg/kg dry	21.5	8.88	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.6**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317902	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-AAS02(6)-1 SB73888-06	60225155	Soil	26-Jul-13 13:30	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.2		µg/kg dry	21.2	15.8	1	SW846 8082A	26-Jul-13	29-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 21.2		µg/kg dry	21.2	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.2		µg/kg dry	21.2	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.2		µg/kg dry	21.2	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.2		µg/kg dry	21.2	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.2		µg/kg dry	21.2	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.73	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**87.9**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317902	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-AAS03(3)-1 SB73888-07	60225155	Soil	26-Jul-13 13:32	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.0		µg/kg dry	22.0	16.5	1	SW846 8082A	26-Jul-13	29-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 22.0		µg/kg dry	22.0	19.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.0		µg/kg dry	22.0	14.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.0		µg/kg dry	22.0	13.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**2,610**		µg/kg dry	22.0	9.67	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.0		µg/kg dry	22.0	18.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**112**		µg/kg dry	22.0	11.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.08	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.1**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317902	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-EB00(6)-1 SB73888-08	60225155	Soil	26-Jul-13 13:35	26-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.9		µg/kg dry	21.9	16.4	1	SW846 8082A	26-Jul-13	29-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 21.9		µg/kg dry	21.9	19.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.9		µg/kg dry	21.9	14.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.9		µg/kg dry	21.9	13.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.9		µg/kg dry	21.9	11.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.9		µg/kg dry	21.9	18.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.9		µg/kg dry	21.9	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.9		µg/kg dry	21.9	20.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.9		µg/kg dry	21.9	9.05	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**86.4**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317902	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-EBN01(6)-1 SB73888-09	60225155	Soil	26-Jul-13 13:37	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	16.2	1	SW846 8082A	26-Jul-13	29-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**447**		µg/kg dry	21.6	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.6		µg/kg dry	21.6	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.6		µg/kg dry	21.6	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.92	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.0**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317902	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-EBN02(4)-1 SB73888-10	60225155	Soil	26-Jul-13 13:39	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			GS1										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 232	D	µg/kg dry	232	173	10	SW846 8082A	26-Jul-13	30-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 232	D	µg/kg dry	232	209	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 232	D	µg/kg dry	232	149	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 232	D	µg/kg dry	232	140	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**16,500**	D	µg/kg dry	232	121	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 232	D	µg/kg dry	232	193	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**441**	D	µg/kg dry	232	144	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 232	D	µg/kg dry	232	216	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 232	D	µg/kg dry	232	95.7	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**84.5**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317902	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-EBS01(6)-1 SB73888-11	60225155	Soil	26-Jul-13 13:40	26-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.2		µg/kg dry	21.2	15.8	1	SW846 8082A	26-Jul-13	29-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 21.2		µg/kg dry	21.2	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.2		µg/kg dry	21.2	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.2		µg/kg dry	21.2	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.2		µg/kg dry	21.2	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.2		µg/kg dry	21.2	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.75	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**93.9**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317902	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-EBS02(5)-1 SB73888-12	60225155	Soil	26-Jul-13 13:42	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.8		µg/kg dry	19.8	14.8	1	SW846 8082A	26-Jul-13	29-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 19.8		µg/kg dry	19.8	17.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.8		µg/kg dry	19.8	12.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.8		µg/kg dry	19.8	11.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**915**		µg/kg dry	19.8	8.68	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.8		µg/kg dry	19.8	16.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**28.7**		µg/kg dry	19.8	12.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.8		µg/kg dry	19.8	18.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.8		µg/kg dry	19.8	8.16	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**94.3**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317902	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-EC00(5)-1 SB73888-13	60225155	Soil	26-Jul-13 13:44	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.9		µg/kg dry	21.9	16.4	1	SW846 8082A	26-Jul-13	29-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 21.9		µg/kg dry	21.9	19.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.9		µg/kg dry	21.9	14.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.9		µg/kg dry	21.9	13.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**926**		µg/kg dry	21.9	11.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.9		µg/kg dry	21.9	18.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**26.3**		µg/kg dry	21.9	11.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.9		µg/kg dry	21.9	20.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.9		µg/kg dry	21.9	9.03	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*45*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.9**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317902	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-ECN01(4)-1 SB73888-14	60225155	Soil	26-Jul-13 13:46	26-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	15.9	1	SW846 8082A	26-Jul-13	29-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.3		µg/kg dry	21.3	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.79	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.7**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317902	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-ECS01(4)-1 SB73888-15	60225155	Soil	26-Jul-13 13:50	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 23.5		µg/kg dry	23.5	17.6	1	SW846 8082A	26-Jul-13	29-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 23.5		µg/kg dry	23.5	21.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.5		µg/kg dry	23.5	15.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.5		µg/kg dry	23.5	14.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**5,020**		µg/kg dry	23.5	12.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.5		µg/kg dry	23.5	19.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**200**		µg/kg dry	23.5	11.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.5		µg/kg dry	23.5	21.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.5		µg/kg dry	23.5	9.71	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**84.8**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317902	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-WB00(6)-1 SB73888-16	60225155	Soil	26-Jul-13 13:52	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.1		µg/kg dry	20.1	15.0	1	SW846 8082A	26-Jul-13	29-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 20.1		µg/kg dry	20.1	18.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.1		µg/kg dry	20.1	12.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.1		µg/kg dry	20.1	12.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**180**		µg/kg dry	20.1	10.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.1		µg/kg dry	20.1	16.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.1		µg/kg dry	20.1	12.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.1		µg/kg dry	20.1	18.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.1		µg/kg dry	20.1	8.29	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**94.6**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317902	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-WBN01(6)-1 SB73888-17	60225155	Soil	26-Jul-13 13:55	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.3		µg/kg dry	22.3	16.6	1	SW846 8082A	26-Jul-13	29-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 22.3		µg/kg dry	22.3	20.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.3		µg/kg dry	22.3	14.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.3		µg/kg dry	22.3	13.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**460**		µg/kg dry	22.3	11.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.3		µg/kg dry	22.3	18.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.3		µg/kg dry	22.3	13.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.3		µg/kg dry	22.3	20.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.3		µg/kg dry	22.3	9.18	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.2**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317902	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-WBN02(3.5)-1 SB73888-18	60225155	Soil	26-Jul-13 14:00	26-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			GS1										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 220	D	µg/kg dry	220	164	10	SW846 8082A	26-Jul-13	30-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 220	D	µg/kg dry	220	198	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 220	D	µg/kg dry	220	141	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 220	D	µg/kg dry	220	132	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**10,000**	D	µg/kg dry	220	114	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 220	D	µg/kg dry	220	183	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**264**	D	µg/kg dry	220	136	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 220	D	µg/kg dry	220	205	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 220	D	µg/kg dry	220	90.6	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**84.3**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317903	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-WBS01(6)-1 SB73888-19	60225155	Soil	26-Jul-13 14:02	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.4		µg/kg dry	20.4	15.3	1	SW846 8082A	26-Jul-13	29-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 20.4		µg/kg dry	20.4	18.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.4		µg/kg dry	20.4	13.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.4		µg/kg dry	20.4	12.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**356**		µg/kg dry	20.4	10.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.4		µg/kg dry	20.4	17.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.4		µg/kg dry	20.4	12.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.4		µg/kg dry	20.4	19.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.4		µg/kg dry	20.4	8.43	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.3**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317903	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-WBS02(5)-1 SB73888-20	60225155	Soil	26-Jul-13 14:04	26-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			GS1										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 450	D	µg/kg dry	450	336	20	SW846 8082A	26-Jul-13	30-Jul-13	IMR	1317824	X
11104-28-2	Aroclor-1221	< 450	D	µg/kg dry	450	405	20	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 450	D	µg/kg dry	450	289	20	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 450	D	µg/kg dry	450	271	20	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**15,700**	D	µg/kg dry	450	234	20	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 450	D	µg/kg dry	450	375	20	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 450	D	µg/kg dry	450	279	20	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 450	D	µg/kg dry	450	419	20	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 450	D	µg/kg dry	450	186	20	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**85.0**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317903	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-WC00(6)-1 SB73888-21	60225155	Soil	26-Jul-13 14:06	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.7		µg/kg dry	21.7	16.2	1	SW846 8082A	26-Jul-13	29-Jul-13	BLM	1317825	X
11104-28-2	Aroclor-1221	< 21.7		µg/kg dry	21.7	19.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.7		µg/kg dry	21.7	14.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.7		µg/kg dry	21.7	13.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	130		µg/kg dry	21.7	9.55	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.7		µg/kg dry	21.7	18.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.7		µg/kg dry	21.7	13.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.7		µg/kg dry	21.7	20.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.7		µg/kg dry	21.7	8.97	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	90.9		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317903	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-WCN01(6)-1 SB73888-22	60225155	Soil	26-Jul-13 14:02	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	26-Jul-13	29-Jul-13	BLM	1317825	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**412**	P	µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	< 20.8		µg/kg dry	20.8	10.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.58	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.0**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317903	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-WCS01(6)-1 SB73888-23	60225155	Soil	26-Jul-13 14:10	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			GS1										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 284	D	µg/kg dry	284	212	10	SW846 8082A	26-Jul-13	30-Jul-13	BLM	1317825	X
11104-28-2	Aroclor-1221	< 284	D	µg/kg dry	284	256	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 284	D	µg/kg dry	284	183	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 284	D	µg/kg dry	284	171	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**9,810**	P, D	µg/kg dry	284	125	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 284	D	µg/kg dry	284	237	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**427**	D	µg/kg dry	284	142	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 284	D	µg/kg dry	284	265	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 284	D	µg/kg dry	284	117	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*750*	S02		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*150*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**70.0**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317903	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-WD00(5)-1 SB73888-24	60225155	Soil	26-Jul-13 14:15	26-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 23.0		µg/kg dry	23.0	17.2	1	SW846 8082A	26-Jul-13	30-Jul-13	BLM	1317825	X
11104-28-2	Aroclor-1221	< 23.0		µg/kg dry	23.0	20.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.0		µg/kg dry	23.0	14.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.0		µg/kg dry	23.0	13.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**4,670**		µg/kg dry	23.0	11.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.0		µg/kg dry	23.0	19.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**178**		µg/kg dry	23.0	14.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.0		µg/kg dry	23.0	21.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.0		µg/kg dry	23.0	9.48	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*170*	S02		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**85.1**		%			1	SM2540 G Mod.	29-Jul-13	29-Jul-13	DT	1317903	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1317824 - SW846 3540C										
Blank (1317824-BLK1)					Prepared: 26-Jul-13 Analyzed: 29-Jul-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
LCS (1317824-BS1)					Prepared: 26-Jul-13 Analyzed: 29-Jul-13					
Aroclor-1016	**261**		µg/kg wet	20.0	250		104	40-140		
Aroclor-1016 [2C]	**237**		µg/kg wet	20.0	250		95	40-140		
Aroclor-1260	**207**		µg/kg wet	20.0	250		83	40-140		
Aroclor-1260 [2C]	**209**		µg/kg wet	20.0	250		84	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
LCS Dup (1317824-BSD1)					Prepared: 26-Jul-13 Analyzed: 29-Jul-13					
Aroclor-1016	**262**		µg/kg wet	20.0	250		105	40-140	0.4	30
Aroclor-1016 [2C]	**243**		µg/kg wet	20.0	250		97	40-140	2	30
Aroclor-1260	**209**		µg/kg wet	20.0	250		84	40-140	1	30
Aroclor-1260 [2C]	**220**		µg/kg wet	20.0	250		88	40-140	5	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
Duplicate (1317824-DUP1)			**Source: SB73888-19**		Prepared: 26-Jul-13 Analyzed: 29-Jul-13					
Aroclor-1016	< 21.4		µg/kg dry	21.4		BRL				30
Aroclor-1016 [2C]	< 21.4		µg/kg dry	21.4		BRL				30
Aroclor-1221	< 21.4		µg/kg dry	21.4		BRL				30
Aroclor-1221 [2C]	< 21.4		µg/kg dry	21.4		BRL				30
Aroclor-1232	< 21.4		µg/kg dry	21.4		BRL				30
Aroclor-1232 [2C]	< 21.4		µg/kg dry	21.4		BRL				30
Aroclor-1242	< 21.4		µg/kg dry	21.4		BRL				30
Aroclor-1242 [2C]	< 21.4		µg/kg dry	21.4		BRL				30
Aroclor-1248	**327**		µg/kg dry	21.4		356			8	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1317824 - SW846 3540C										
Duplicate (1317824-DUP1)			**Source: SB73888-19**			Prepared: 26-Jul-13 Analyzed: 29-Jul-13				
Aroclor-1248 [2C]	**361**		µg/kg dry	21.4		330			9	30
Aroclor-1254	< 21.4		µg/kg dry	21.4		BRL				30
Aroclor-1254 [2C]	< 21.4		µg/kg dry	21.4		BRL				30
Aroclor-1260	< 21.4		µg/kg dry	21.4		BRL				30
Aroclor-1260 [2C]	< 21.4		µg/kg dry	21.4		BRL				30
Aroclor-1262	< 21.4		µg/kg dry	21.4		BRL				30
Aroclor-1262 [2C]	< 21.4		µg/kg dry	21.4		BRL				30
Aroclor-1268	< 21.4		µg/kg dry	21.4		BRL				30
Aroclor-1268 [2C]	< 21.4		µg/kg dry	21.4		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.2*		µg/kg dry		*21.4*		*85*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*25.7*		µg/kg dry		*21.4*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.2*		µg/kg dry		*21.4*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*22.5*		µg/kg dry		*21.4*		*105*	*30-150*		
Matrix Spike (1317824-MS1)			**Source: SB73888-19**			Prepared: 26-Jul-13 Analyzed: 29-Jul-13				
Aroclor-1016	**351**		µg/kg dry	21.4	267	BRL	132	40-140		
Aroclor-1016 [2C]	**297**		µg/kg dry	21.4	267	BRL	111	40-140		
Aroclor-1260	**182**		µg/kg dry	21.4	267	BRL	68	40-140		
Aroclor-1260 [2C]	**232**		µg/kg dry	21.4	267	BRL	87	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.2*		µg/kg dry		*21.4*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*24.6*		µg/kg dry		*21.4*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.1*		µg/kg dry		*21.4*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*22.4*		µg/kg dry		*21.4*		*105*	*30-150*		
Matrix Spike Dup (1317824-MSD1)			**Source: SB73888-19**			Prepared: 26-Jul-13 Analyzed: 29-Jul-13				
Aroclor-1016	**329**		µg/kg dry	20.5	256	BRL	128	40-140	2	30
Aroclor-1016 [2C]	**273**		µg/kg dry	20.5	256	BRL	106	40-140	4	30
Aroclor-1260	**204**		µg/kg dry	20.5	256	BRL	80	40-140	16	30
Aroclor-1260 [2C]	**270**		µg/kg dry	20.5	256	BRL	105	40-140	19	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.5*		µg/kg dry		*20.5*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*27.7*		µg/kg dry		*20.5*		*135*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.5*		µg/kg dry		*20.5*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*21.5*		µg/kg dry		*20.5*		*105*	*30-150*		
Batch 1317825 - SW846 3540C										
Blank (1317825-BLK1)						Prepared: 26-Jul-13 Analyzed: 29-Jul-13				
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1317825 - SW846 3540C										
Blank (1317825-BLK1)					Prepared: 26-Jul-13 Analyzed: 29-Jul-13					
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*13.0*		µg/kg wet		*20.0*		*65*	*30-150*		
LCS (1317825-BS1)					Prepared: 26-Jul-13 Analyzed: 29-Jul-13					
Aroclor-1016	**300**		µg/kg wet	20.0	250		120	40-140		
Aroclor-1016 [2C]	**270**		µg/kg wet	20.0	250		108	40-140		
Aroclor-1260	**275**		µg/kg wet	20.0	250		110	40-140		
Aroclor-1260 [2C]	**250**		µg/kg wet	20.0	250		100	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*26.0*		µg/kg wet		*20.0*		*130*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
LCS Dup (1317825-BSD1)					Prepared: 26-Jul-13 Analyzed: 29-Jul-13					
Aroclor-1016	**298**		µg/kg wet	20.0	250		119	40-140	0.7	30
Aroclor-1016 [2C]	**264**		µg/kg wet	20.0	250		106	40-140	2	30
Aroclor-1260	**266**		µg/kg wet	20.0	250		106	40-140	3	30
Aroclor-1260 [2C]	**273**		µg/kg wet	20.0	250		109	40-140	9	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1317903 - General Preparation										
Duplicate (1317903-DUP1)			**Source: SB73888-18**		Prepared & Analyzed: 29-Jul-13					
% Solids	**86.6**		%			84.3			3	20

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
P	Difference between the two GC columns is greater than 40%.
R01	The Reporting Limit has been raised to account for matrix interference.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk
Rebecca Merz

GB73888 SB

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC1a | Page: 1 of 3

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-1a	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED											ADDITIONAL INFORMATION
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV. ANALYSIS	Store cool at 4°C W-PCB+Soxhlet Extraction 8082 3540										
73888-																	
AOC-1B-AA00(6)-1 01	Soil	7/26/2013	1320	G=Grab	1		X										
AOC-1B-AAN01(6)-1 02	Soil	7/26/2013	1322	G=Grab	1		X										
AOC-1B-AAN02(6)-1 03	Soil	7/26/2013	1324	G=Grab	1		X										
AOC-1B-AAN03(3)-1 04	Soil	7/26/2013	1326	G=Grab	1		X										
AOC-1B-AAS01(6)-1 05	Soil	7/26/2013	1328	G=Grab	1		X										
AOC-1B-AAS02(6)-1 06	Soil	7/26/2013	1330	G=Grab	1		X										
AOC-1B-AAS03(3)-1 07	Soil	7/26/2013	1332	G=Grab	1		X										
AOC-1B-EB00(6)-1 08	Soil	7/26/2013	1335	G=Grab	1		X										
AOC-1B-EBN01(6)-1 09	Soil	7/26/2013	1337	G=Grab	1		X										
AOC-1B-EBN02(4)-1 10	Soil	7/26/2013	1339	G=Grab	1		X										

Additional Comments/Special Instructions		Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples		7/26/13	1610			7-26-13	4:45	Y / N	Y / N	Y / N	
4.6 10 14.6 IR1						7/26/13	20:15	Y / N	Y / N	Y / N	
								Y / N	Y / N	Y / N	
								Y / N	Y / N	Y / N	
	Sampler's Name	Julie Williams			Mobile #	631-786-6107		Temp in °C	Samples on ice?	Sample intact?	Trip Blank?
	Sampler's Signature										

SB73888

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC1a | Page: 2 of 3

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-1a	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED											ADDITIONAL INFORMATION
Sample ID (73888-)	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV. Store cool at 4°C	ANALYSIS W-PCBs-Soxhelt Extraction MBE3540										
AOC-1B-EBS01(6)-1 11	Soil	7/26/2013	1340	G=Grab	1		X										
AOC-1B-EBS02(5)-1 12	Soil	7/26/2013	1342	G=Grab	1		X										
AOC-1B-EC00(5)-1 13	Soil	7/26/2013	1344	G=Grab	1		X										
AOC-1B-ECN01(4)-1 14	Soil	7/26/2013	1346	G=Grab	1		X										
AOC-1B-ECS01(4)-1 15	Soil	7/26/2013	1350	G=Grab	1		X										
AOC-1B-WB00(6)-1 16	Soil	7/26/2013	1352	G=Grab	1		X										
AOC-1B-WBN01(6)-1 17	Soil	7/26/2013	1355	G=Grab	1		X										
AOC-1B-WBN02(3.5)-1 18	Soil	7/26/2013	1400	G=Grab	1		X										
AOC-1B-WBS01(6)-1 19	Soil	7/26/2013	1402	G=Grab	1		X										
AOC-1B-WBS02(5)-1 20	Soil	7/26/2013	1404	G=Grab	1		X										

Additional Comments/Special Instructions	Date	Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples	7-26-13	1640		7-26-13	1640	Y / N	Y / N	Y / N	Temp in °C
4.6 10 4k6 IR 1				7/26/13	20:15	Y / N	Y / N	Y / N	Samples on ice?
						Y / N	Y / N	Y / N	Sample intact?
						Y / N	Y / N	Y / N	Trip Blank?

Sampler's Name	Julie Williams	Mobile #	631-786-6107
Sampler's Signature			

SB73888

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC1a | Page: 3 of 3

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-1a	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED											ADDITIONAL INFORMATION
						PRESERV.	Store cool at 4°C										
						ANALYSIS	% PCBs Soxhlet Extraction SW8082										
73888- Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers												
AOC-1B-WC00(6)-1 21	Soil	7/26/2013	1406	G=Grab	1		X										
AOC-1B-WCN01(6)-1 22	Soil	7/26/2013	1402	G=Grab	1		X										
AOC-1B-WCS01(6)-1 23	Soil	7/26/2013	1410	G=Grab	1		X										
AOC-1B-WD00(5)-1 24	Soil	7/26/2013	1415	G=Grab	1		X										

Additional Comments/Special Instructions		Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples		7-26-13	1640			7-26-13	1747		Y / N	Y / N	Y / N
4.6 / 0 4.6 IR 1						7/26/13	20:15		Y / N	Y / N	Y / N
									Y / N	Y / N	Y / N

Sampler's Name	Julie Williams	Mobile #	631-786-6107
Sampler's Signature			

Temp in °C	Samples on ice?	Sample intact?	Trip Blank?
	Y / N	Y / N	Y / N

Report Date:
01-Aug-13 15:07

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: GHS- MISA - Greenwich, CT
Project #: 60225155

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74024-01	AOC-1A-2-SS1-1	Soil	30-Jul-13 12:30	30-Jul-13 14:55
SB74024-02	AOC-1A-2-SS2-1	Soil	30-Jul-13 12:35	30-Jul-13 14:55
SB74024-03	AOC-1A-2-SS3-1	Soil	30-Jul-13 12:40	30-Jul-13 14:55

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 10 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: GHS- MISA - Greenwich, CT

Project Number: 60225155

Sampling Date(s):
7/30/2013

Laboratory Sample ID(s):
SB74024-01 through SB74024-03

RCP Methods Used:
SW846 8082A

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/1/2013

CASE NARRATIVE:

The samples were received 4.4 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	GHS- MISA - Greenwich, CT / 60225155
Work Order:	SB74024
Sample(s) received on:	7/30/2013
Received by:	Tanya Krivolenko

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☐	☑	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1A-2-SS1-1 SB74024-01	60225155	Soil	30-Jul-13 12:30	30-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.1		µg/kg dry	22.1	16.5	1	SW846 8082A	30-Jul-13	01-Aug-13	IMR	1318061	X
11104-28-2	Aroclor-1221	< 22.1		µg/kg dry	22.1	19.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.1		µg/kg dry	22.1	14.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.1		µg/kg dry	22.1	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,090**		µg/kg dry	22.1	11.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.1		µg/kg dry	22.1	18.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**43.1**		µg/kg dry	22.1	11.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.1		µg/kg dry	22.1	20.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.1		µg/kg dry	22.1	9.11	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.6**		%			1	SM2540 G Mod.	31-Jul-13	31-Jul-13	DT	1318152	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1A-2-SS2-1 SB74024-02	60225155	Soil	30-Jul-13 12:35	30-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.2		µg/kg dry	20.2	15.1	1	SW846 8082A	30-Jul-13	01-Aug-13	IMR	1318061	X
11104-28-2	Aroclor-1221	< 20.2		µg/kg dry	20.2	18.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.2		µg/kg dry	20.2	13.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.2		µg/kg dry	20.2	12.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**3,150**		µg/kg dry	20.2	8.86	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.2		µg/kg dry	20.2	16.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**76.7**		µg/kg dry	20.2	10.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.2		µg/kg dry	20.2	18.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.2		µg/kg dry	20.2	8.32	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*45*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.1**		%			1	SM2540 G Mod.	31-Jul-13	31-Jul-13	DT	1318153	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1A-2-SS3-1 SB74024-03	60225155	Soil	30-Jul-13 12:40	30-Jul-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.1		µg/kg dry	22.1	16.5	1	SW846 8082A	30-Jul-13	01-Aug-13	IMR	1318061	X
11104-28-2	Aroclor-1221	< 22.1		µg/kg dry	22.1	20.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.1		µg/kg dry	22.1	14.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.1		µg/kg dry	22.1	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**616**		µg/kg dry	22.1	11.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.1		µg/kg dry	22.1	18.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**27.7**		µg/kg dry	22.1	11.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.1		µg/kg dry	22.1	20.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.1		µg/kg dry	22.1	9.13	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.2**		%			1	SM2540 G Mod.	31-Jul-13	31-Jul-13	DT	1318153	

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1318061 - SW846 3540C										
Blank (1318061-BLK1)					Prepared: 30-Jul-13 Analyzed: 31-Jul-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
LCS (1318061-BS1)					Prepared: 30-Jul-13 Analyzed: 31-Jul-13					
Aroclor-1016	**266**		µg/kg wet	20.0	250		106	40-140		
Aroclor-1016 [2C]	**280**		µg/kg wet	20.0	250		112	40-140		
Aroclor-1260	**206**		µg/kg wet	20.0	250		82	40-140		
Aroclor-1260 [2C]	**235**		µg/kg wet	20.0	250		94	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*14.0*		µg/kg wet		*20.0*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
LCS Dup (1318061-BSD1)					Prepared: 30-Jul-13 Analyzed: 31-Jul-13					
Aroclor-1016	**268**		µg/kg wet	20.0	250		107	40-140	0.7	30
Aroclor-1016 [2C]	**259**		µg/kg wet	20.0	250		104	40-140	8	30
Aroclor-1260	**219**		µg/kg wet	20.0	250		88	40-140	6	30
Aroclor-1260 [2C]	**245**		µg/kg wet	20.0	250		98	40-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1318153 - General Preparation										
Duplicate (1318153-DUP1)			**Source: SB74024-02**			Prepared & Analyzed: 31-Jul-13				
% Solids	**89.9**		%			90.1			0.2	20

Notes and Definitions

dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Rebecca Merz

SB74024RM

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC1A-2 | Page: 1 of 1

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-1A-2	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED									ADDITIONAL INFORMATION
						PRESERV.	Store cool at 4°C								
						ANALYSIS	W-PCBs-Soxhelt Extraction 8082/3540								
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers										
AOC-1A-2-SS1-1	Soil	7/30/2013	1230	G=Grab	1		X								SB74024-01
AOC-1A-2-SS2-1	Soil	7/30/2013	1235	G=Grab	1		X								-02
AOC-1A-2-SS2-1	Soil	7/30/2013	1240	G=Grab	1		X								-03

Additional Comments/Special Instructions		Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples	Julie Williams Jet	7-30-13	1255		Jet, Tom/K	7/30/13	12:50p	Y / N	Y / N	Y / N	
						7-30-13	14.55	Y / N	Y / N	Y / N	
								Y / N	Y / N	Y / N	
								Y / N	Y / N	Y / N	

Sampler's Name	Julie Williams	Mobile #	631-786-6107	Temp in °c	Samples on ice?	Sample intact?	Trip Blank?
Sampler's Signature	Julie Williams						

4.4/0 /44 IR

SB74024RH

AECOM Chain Of Custody Record

COC ID: COC_GHS MISA_AOC1A-2 | Page: 1 of 1

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-1A-2	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED										ADDITIONAL INFORMATION
						PRESERV.	Store cool at 4°C									
						ANALYSIS	W-PCBs-Soxhelt Extraction 8082/3540									
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers											
AOC-1A-2-SS1-1	Soil	7/30/2013	1230	G=Grab	1		X									SB74024-01
AOC-1A-2-SS2-1	Soil	7/30/2013	1235	G=Grab	1		X									-02
AOC-1A-2-SS2-1 x3	Soil	7/30/2013	1240	G=Grab	1		X									-03
RH 7/31 per client request																

Additional Comments/Special Instructions		Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples	Julie Williams Jet	7-30-13	1255		Jet Tom/K	7/30/13	12:50p	Y / N	Y / N	Y / N	
						7-30-13	14:55	Y / N	Y / N	Y / N	
								Y / N	Y / N	Y / N	

Sampler's Name	Julie Williams	Mobile #	631-786-6107	Temp in °C	Samples on ice?	Sample intact?	Trip Blank?
Sampler's Signature	Julie Williams						

4.4/0 /44 IR

Report Date:
08-Aug-13 15:40

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: GHS- MISA - Greenwich, CT
Project #: 60225155

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74436-01	AOC-6-BOT(4)-1	Soil	06-Aug-13 12:00	06-Aug-13 18:00
SB74436-02	AOC-6-NSW(2)-1	Soil	06-Aug-13 12:01	06-Aug-13 18:00
SB74436-03	AOC-6-SSW(2)-1	Soil	06-Aug-13 12:02	06-Aug-13 18:00
SB74436-04	AOC-6-ESW(2)-1	Soil	06-Aug-13 12:03	06-Aug-13 18:00
SB74436-05	AOC-6-WSW(2)-1	Soil	06-Aug-13 12:04	06-Aug-13 18:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 11 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: GHS- MISA - Greenwich, CT

Project Number: 60225155

Sampling Date(s):
8/6/2013

Laboratory Sample ID(s):
SB74436-01 through SB74436-05

RCP Methods Used:
SW846 8270D

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/8/2013

CASE NARRATIVE:

The samples were received 3.4 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8270D

Samples:

SB74436-01 *AOC-6-BOT(4)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB74436-02 *AOC-6-NSW(2)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB74436-03 *AOC-6-SSW(2)-1*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

SB74436-04 *AOC-6-ESW(2)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB74436-05 *AOC-6-WSW(2)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	GHS- MISA - Greenwich, CT / 60225155
Work Order:	SB74436
Sample(s) received on:	8/6/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-6-BOT(4)-1 SB74436-01	60225155	Soil	06-Aug-13 12:00	06-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			GS1										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 897	D	µg/kg dry	897	228	5	SW846 8270D	07-Aug-13	08-Aug-13	MSL	1318759	X
208-96-8	Acenaphthylene	< 897	D	µg/kg dry	897	249	5	"	"	"	"	"	X
120-12-7	Anthracene	**1,230**	D	µg/kg dry	897	229	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**1,700**	D	µg/kg dry	897	240	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**1,650**	D	µg/kg dry	897	244	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**1,450**	D	µg/kg dry	897	195	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 897	D	µg/kg dry	897	249	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**1,210**	D	µg/kg dry	897	318	5	"	"	"	"	"	X
218-01-9	Chrysene	**1,630**	D	µg/kg dry	897	253	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 897	D	µg/kg dry	897	232	5	"	"	"	"	"	X
206-44-0	Fluoranthene	**4,380**	D	µg/kg dry	897	251	5	"	"	"	"	"	X
86-73-7	Fluorene	< 897	D	µg/kg dry	897	249	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 897	D	µg/kg dry	897	249	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 897	D	µg/kg dry	897	265	5	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 897	D	µg/kg dry	897	256	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 897	D	µg/kg dry	897	250	5	"	"	"	"	"	X
85-01-8	Phenanthrene	**4,050**	D	µg/kg dry	897	239	5	"	"	"	"	"	X
129-00-0	Pyrene	**3,250**	D	µg/kg dry	897	217	5	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*61*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*76*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.8**		%			1	SM2540 G Mod.	07-Aug-13	07-Aug-13	DT	1318819	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-6-NSW(2)-1 SB74436-02	60225155	Soil	06-Aug-13 12:01	06-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			GS1										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	**2,380**	D	µg/kg dry	1760	446	10	SW846 8270D	07-Aug-13	08-Aug-13	MSL	1318759	X
208-96-8	Acenaphthylene	< 1760	D	µg/kg dry	1760	486	10	"	"	"	"	"	X
120-12-7	Anthracene	**4,750**	D	µg/kg dry	1760	447	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**5,730**	D	µg/kg dry	1760	470	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**4,920**	D	µg/kg dry	1760	478	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**4,670**	D	µg/kg dry	1760	381	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**1,790**	D	µg/kg dry	1760	488	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**3,780**	D	µg/kg dry	1760	622	10	"	"	"	"	"	X
218-01-9	Chrysene	**5,210**	D	µg/kg dry	1760	495	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 1760	D	µg/kg dry	1760	453	10	"	"	"	"	"	X
206-44-0	Fluoranthene	**12,800**	D	µg/kg dry	1760	491	10	"	"	"	"	"	X
86-73-7	Fluorene	**3,170**	D	µg/kg dry	1760	488	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**2,170**	D	µg/kg dry	1760	487	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1760	D	µg/kg dry	1760	518	10	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 1760	D	µg/kg dry	1760	501	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 1760	D	µg/kg dry	1760	490	10	"	"	"	"	"	X
85-01-8	Phenanthrene	**14,800**	D	µg/kg dry	1760	468	10	"	"	"	"	"	X
129-00-0	Pyrene	**10,200**	D	µg/kg dry	1760	424	10	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*101*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*91*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**93.9**		%			1	SM2540 G Mod.	07-Aug-13	07-Aug-13	DT	1318819	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-6-SSW(2)-1 SB74436-03	60225155	Soil	06-Aug-13 12:02	06-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			R05										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 3660	D	µg/kg dry	3660	929	20	SW846 8270D	07-Aug-13	08-Aug-13	MSL	1318759	X
208-96-8	Acenaphthylene	< 3660	D	µg/kg dry	3660	1010	20	"	"	"	"	"	X
120-12-7	Anthracene	< 3660	D	µg/kg dry	3660	931	20	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 3660	D	µg/kg dry	3660	978	20	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 3660	D	µg/kg dry	3660	995	20	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 3660	D	µg/kg dry	3660	794	20	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 3660	D	µg/kg dry	3660	1020	20	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 3660	D	µg/kg dry	3660	1290	20	"	"	"	"	"	X
218-01-9	Chrysene	< 3660	D	µg/kg dry	3660	1030	20	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 3660	D	µg/kg dry	3660	944	20	"	"	"	"	"	X
206-44-0	Fluoranthene	< 3660	D	µg/kg dry	3660	1020	20	"	"	"	"	"	X
86-73-7	Fluorene	< 3660	D	µg/kg dry	3660	1020	20	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 3660	D	µg/kg dry	3660	1010	20	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 3660	D	µg/kg dry	3660	1080	20	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 3660	D	µg/kg dry	3660	1040	20	"	"	"	"	"	X
91-20-3	Naphthalene	< 3660	D	µg/kg dry	3660	1020	20	"	"	"	"	"	X
85-01-8	Phenanthrene	< 3660	D	µg/kg dry	3660	975	20	"	"	"	"	"	X
129-00-0	Pyrene	< 3660	D	µg/kg dry	3660	883	20	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*97*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*112*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.2**		%			1	SM2540 G Mod.	07-Aug-13	07-Aug-13	DT	1318819	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-6-ESW(2)-1 SB74436-04	60225155	Soil	06-Aug-13 12:03	06-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			GS1										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	**3,500**	D	µg/kg dry	1920	488	10	SW846 8270D	07-Aug-13	08-Aug-13	MSL	1318759	X
208-96-8	Acenaphthylene	< 1920	D	µg/kg dry	1920	532	10	"	"	"	"	"	X
120-12-7	Anthracene	**6,910**	D	µg/kg dry	1920	489	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**8,330**	D	µg/kg dry	1920	514	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**7,340**	D	µg/kg dry	1920	523	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**6,950**	D	µg/kg dry	1920	417	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**4,120**	D	µg/kg dry	1920	534	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**5,580**	D	µg/kg dry	1920	680	10	"	"	"	"	"	X
218-01-9	Chrysene	**7,660**	D	µg/kg dry	1920	542	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 1920	D	µg/kg dry	1920	496	10	"	"	"	"	"	X
206-44-0	Fluoranthene	**19,300**	D	µg/kg dry	1920	537	10	"	"	"	"	"	X
86-73-7	Fluorene	**3,820**	D	µg/kg dry	1920	534	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**4,390**	D	µg/kg dry	1920	532	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1920	D	µg/kg dry	1920	567	10	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 1920	D	µg/kg dry	1920	548	10	"	"	"	"	"	X
91-20-3	Naphthalene	**2,270**	D	µg/kg dry	1920	536	10	"	"	"	"	"	X
85-01-8	Phenanthrene	**20,200**	D	µg/kg dry	1920	513	10	"	"	"	"	"	X
129-00-0	Pyrene	**14,500**	D	µg/kg dry	1920	464	10	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*81*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*96*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**86.7**		%			1	SM2540 G Mod.	07-Aug-13	07-Aug-13	DT	1318819	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-6-WSW(2)-1 SB74436-05	60225155	Soil	06-Aug-13 12:04	06-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			GS1										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	**1,500**	D	µg/kg dry	935	238	5	SW846 8270D	07-Aug-13	08-Aug-13	MSL	1318759	X
208-96-8	Acenaphthylene	< 935	D	µg/kg dry	935	259	5	"	"	"	"	"	X
120-12-7	Anthracene	**1,460**	D	µg/kg dry	935	238	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**1,540**	D	µg/kg dry	935	250	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**1,450**	D	µg/kg dry	935	255	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**1,320**	D	µg/kg dry	935	203	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 935	D	µg/kg dry	935	260	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**1,220**	D	µg/kg dry	935	331	5	"	"	"	"	"	X
218-01-9	Chrysene	**1,460**	D	µg/kg dry	935	264	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 935	D	µg/kg dry	935	241	5	"	"	"	"	"	X
206-44-0	Fluoranthene	**4,360**	D	µg/kg dry	935	261	5	"	"	"	"	"	X
86-73-7	Fluorene	**1,670**	D	µg/kg dry	935	260	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 935	D	µg/kg dry	935	259	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 935	D	µg/kg dry	935	276	5	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 935	D	µg/kg dry	935	267	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 935	D	µg/kg dry	935	261	5	"	"	"	"	"	X
85-01-8	Phenanthrene	**6,080**	D	µg/kg dry	935	250	5	"	"	"	"	"	X
129-00-0	Pyrene	**3,060**	D	µg/kg dry	935	226	5	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*71*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*86*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.9**		%			1	SM2540 G Mod.	07-Aug-13	07-Aug-13	DT	1318819	

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1318759 - SW846 3545A										
Blank (1318759-BLK1)						Prepared: 07-Aug-13 Analyzed: 08-Aug-13				
Acenaphthene	< 167		µg/kg wet	167						
Acenaphthylene	< 167		µg/kg wet	167						
Anthracene	< 167		µg/kg wet	167						
Benzo (a) anthracene	< 167		µg/kg wet	167						
Benzo (a) pyrene	< 167		µg/kg wet	167						
Benzo (b) fluoranthene	< 167		µg/kg wet	167						
Benzo (g,h,i) perylene	< 167		µg/kg wet	167						
Benzo (k) fluoranthene	< 167		µg/kg wet	167						
Chrysene	< 167		µg/kg wet	167						
Dibenzo (a,h) anthracene	< 167		µg/kg wet	167						
Fluoranthene	< 167		µg/kg wet	167						
Fluorene	< 167		µg/kg wet	167						
Indeno (1,2,3-cd) pyrene	< 167		µg/kg wet	167						
1-Methylnaphthalene	< 167		µg/kg wet	167						
2-Methylnaphthalene	< 167		µg/kg wet	167						
Naphthalene	< 167		µg/kg wet	167						
Phenanthrene	< 167		µg/kg wet	167						
Pyrene	< 167		µg/kg wet	167						
Surrogate: 2-Fluorobiphenyl	*1310*		µg/kg wet		*1670*		*79*	*30-130*		
Surrogate: Terphenyl-dl4	*1450*		µg/kg wet		*1670*		*87*	*30-130*		
LCS (1318759-BS1)						Prepared: 07-Aug-13 Analyzed: 08-Aug-13				
Acenaphthene	**1720**		µg/kg wet	167	1670		103	40-140		
Acenaphthylene	**1840**		µg/kg wet	167	1670		111	40-140		
Anthracene	**1770**		µg/kg wet	167	1670		106	40-140		
Benzo (a) anthracene	**1750**		µg/kg wet	167	1670		105	40-140		
Benzo (a) pyrene	**1590**		µg/kg wet	167	1670		96	40-140		
Benzo (b) fluoranthene	**1580**		µg/kg wet	167	1670		95	40-140		
Benzo (g,h,i) perylene	**1750**		µg/kg wet	167	1670		105	40-140		
Benzo (k) fluoranthene	**1850**		µg/kg wet	167	1670		111	40-140		
Chrysene	**1700**		µg/kg wet	167	1670		102	40-140		
Dibenzo (a,h) anthracene	**1890**		µg/kg wet	167	1670		113	40-140		
Fluoranthene	**1890**		µg/kg wet	167	1670		114	40-140		
Fluorene	**1520**		µg/kg wet	167	1670		91	40-140		
Indeno (1,2,3-cd) pyrene	**1920**		µg/kg wet	167	1670		115	40-140		
1-Methylnaphthalene	**1610**		µg/kg wet	167	1670		97	40-140		
2-Methylnaphthalene	**2230**		µg/kg wet	167	1670		134	40-140		
Naphthalene	**1760**		µg/kg wet	167	1670		106	40-140		
Phenanthrene	**1720**		µg/kg wet	167	1670		103	40-140		
Pyrene	**1600**		µg/kg wet	167	1670		96	40-140		
Surrogate: 2-Fluorobiphenyl	*1250*		µg/kg wet		*1670*		*75*	*30-130*		
Surrogate: Terphenyl-dl4	*1240*		µg/kg wet		*1670*		*74*	*30-130*		

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
R05	Elevated Reporting Limits due to the presence of high levels of non-target analytes.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk

SB74436RH

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC6 | Page: 1 of 1

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-6	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@acocm.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED												ADDITIONAL INFORMATION
						PRESERV.	Store cool at 4°C											
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	ANALYSIS	PAHs											
AOC-6-BOT(4)-1	Soil	8/6/2013	1200	G=Grab	1		X											SB74436-01
AOC-6-NSW(2)-1	Soil	8/6/2013	1201	G=Grab	1		X											-02
AOC-6-SSW(2)-1	Soil	8/6/2013	1202	G=Grab	1		X											-03
AOC-6-ESW(2)-1	Soil	8/6/2013	1203	G=Grab	1		X											-04
AOC-6-WSW(2)-1	Soil	8/6/2013	1209	G=Grab	1		X											-05

Additional Comments/Special Instructions		Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush	Julie Williams Jet	8/6/13			Jet	8/6/13	3:30	Y / N	Y / N	Y / N	
						8/6/13	1820	Y / N	Y / N	Y / N	
								Y / N	Y / N	Y / N	
								Y / N	Y / N	Y / N	

					Temp in °C	Samples on ice?	Sample intact?	Trip Blank?
Sampler's Name	Julie Williams	Mobile #	631-786-6107					
Sampler's Signature	Julie Williams	8/6/13						

3.4/0/3.4 IR 03

Report Date:
08-Aug-13 15:21

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: GHS- MISA - Greenwich, CT
Project #: 60225155

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74437-01	AOC-2A-AA00(5)-1	Soil	06-Aug-13 13:30	06-Aug-13 18:00
SB74437-02	AOC-2A-AAN01(5)-1	Soil	06-Aug-13 13:32	06-Aug-13 18:00
SB74437-03	AOC-2A-AAN02(5)-1	Soil	06-Aug-13 13:34	06-Aug-13 18:00
SB74437-04	AOC-2A-AAS01(5)-1	Soil	06-Aug-13 13:35	06-Aug-13 18:00
SB74437-05	AOC-2A-AAS02(5)-1	Soil	06-Aug-13 13:36	06-Aug-13 18:00
SB74437-06	AOC-2A-WB00(5)-1	Soil	06-Aug-13 13:37	06-Aug-13 18:00
SB74437-07	AOC-2A-WBS01(5)-1	Soil	06-Aug-13 13:38	06-Aug-13 18:00
SB74437-08	AOC-2A-WBS02(5)-1	Soil	06-Aug-13 13:39	06-Aug-13 18:00
SB74437-09	AOC-2A-EB00(4)-1	Soil	06-Aug-13 13:40	06-Aug-13 18:00
SB74437-10	AOC-2A-EBN01(5)-1	Soil	06-Aug-13 13:41	06-Aug-13 18:00
SB74437-11	AOC-2A-EBN02(4)-1	Soil	06-Aug-13 13:42	06-Aug-13 18:00
SB74437-12	AOC-2A-EBS01(3)-1	Soil	06-Aug-13 13:43	06-Aug-13 18:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 22 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: GHS- MISA - Greenwich, CT

Project Number: 60225155

Sampling Date(s):
8/6/2013

Laboratory Sample ID(s):
SB74437-01 through SB74437-12

RCP Methods Used:
SW846 8082A

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/8/2013

CASE NARRATIVE:

The samples were received 3.4 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Spikes:

1318744-MS1 *Source: SB74437-08*

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016
Aroclor-1016 [2C]

1318744-MSD1 *Source: SB74437-08*

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016
Aroclor-1016 [2C]

Duplicates:

1318744-DUP1 *Source: SB74437-08*

SW846 8082A

Duplicates:

1318744-DUP1 *Source: SB74437-08*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1016 [2C]
Aroclor-1221
Aroclor-1221 [2C]
Aroclor-1232
Aroclor-1232 [2C]
Aroclor-1242
Aroclor-1242 [2C]
Aroclor-1248
Aroclor-1248 [2C]

Samples:

SB74437-02 *AOC-2A-AAN01(5)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

SB74437-03 *AOC-2A-AAN02(5)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB74437-06 *AOC-2A-WB00(5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74437-07 *AOC-2A-WBS01(5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

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

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB74437-08 *AOC-2A-WBS02(5)-1*

SW846 8082A

Samples:

SB74437-08 *AOC-2A-WBS02(5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	GHS- MISA - Greenwich, CT / 60225155
Work Order:	SB74437
Sample(s) received on:	8/6/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-AA00(5)-1 SB74437-01	60225155	Soil	06-Aug-13 13:30	06-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	06-Aug-13	07-Aug-13	IMR	1318744	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,180**		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**57.2**		µg/kg dry	20.8	10.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.58	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.1**		%			1	SM2540 G Mod.	07-Aug-13	07-Aug-13	DT	1318819	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-AAN01(5)-1 SB74437-02	60225155	Soil	06-Aug-13 13:32	06-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			GS1										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 426	D	µg/kg dry	426	318	20	SW846 8082A	06-Aug-13	08-Aug-13	IMR	1318744	X
11104-28-2	Aroclor-1221	< 426	D	µg/kg dry	426	384	20	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 426	D	µg/kg dry	426	274	20	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 426	D	µg/kg dry	426	256	20	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**34,700**	D	µg/kg dry	426	187	20	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 426	D	µg/kg dry	426	355	20	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**682**	D	µg/kg dry	426	264	20	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 426	D	µg/kg dry	426	397	20	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 426	D	µg/kg dry	426	176	20	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*0*	S01		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*0*	S01		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*0*	S01		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*0*	S01		*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**87.1**		%			1	SM2540 G Mod.	07-Aug-13	07-Aug-13	DT	1318819	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-AAN02(5)-1 SB74437-03	60225155	Soil	06-Aug-13 13:34	06-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			GS1										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 232	D	µg/kg dry	232	173	10	SW846 8082A	06-Aug-13	08-Aug-13	IMR	1318744	X
11104-28-2	Aroclor-1221	< 232	D	µg/kg dry	232	209	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 232	D	µg/kg dry	232	149	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 232	D	µg/kg dry	232	140	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**9,860**	D	µg/kg dry	232	121	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 232	D	µg/kg dry	232	193	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**290**	D	µg/kg dry	232	144	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 232	D	µg/kg dry	232	216	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 232	D	µg/kg dry	232	95.7	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**85.6**		%			1	SM2540 G Mod.	07-Aug-13	07-Aug-13	DT	1318819	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-AAS01(5)-1 SB74437-04	60225155	Soil	06-Aug-13 13:35	06-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	16.1	1	SW846 8082A	06-Aug-13	07-Aug-13	IMR	1318744	X
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,410**		µg/kg dry	21.6	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.6		µg/kg dry	21.6	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**41.1**		µg/kg dry	21.6	10.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.91	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.9**		%			1	SM2540 G Mod.	07-Aug-13	07-Aug-13	DT	1318819	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-AAS02(5)-1 SB74437-05	60225155	Soil	06-Aug-13 13:36	06-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.7		µg/kg dry	22.7	17.0	1	SW846 8082A	06-Aug-13	08-Aug-13	IMR	1318744	X
11104-28-2	Aroclor-1221	< 22.7		µg/kg dry	22.7	20.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.7		µg/kg dry	22.7	14.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.7		µg/kg dry	22.7	13.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**598**		µg/kg dry	22.7	11.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.7		µg/kg dry	22.7	19.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.7		µg/kg dry	22.7	14.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.7		µg/kg dry	22.7	21.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.7		µg/kg dry	22.7	9.38	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**87.1**		%			1	SM2540 G Mod.	07-Aug-13	07-Aug-13	DT	1318819	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-WB00(5)-1 SB74437-06	60225155	Soil	06-Aug-13 13:37	06-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 212	R01	µg/kg dry	212	158	1	SW846 8082A	06-Aug-13	08-Aug-13	IMR	1318744	X
11104-28-2	Aroclor-1221	< 212	R01	µg/kg dry	212	191	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 212	R01	µg/kg dry	212	136	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 212	R01	µg/kg dry	212	127	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 212	R01	µg/kg dry	212	110	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.2		µg/kg dry	21.2	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.73	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.9**		%			1	SM2540 G Mod.	07-Aug-13	07-Aug-13	DT	1318819	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-WBS01(5)-1 SB74437-07	60225155	Soil	06-Aug-13 13:38	06-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 216	R01	µg/kg dry	216	161	1	SW846 8082A	06-Aug-13	08-Aug-13	IMR	1318744	X
11104-28-2	Aroclor-1221	< 216	R01	µg/kg dry	216	195	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 216	R01	µg/kg dry	216	139	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 216	R01	µg/kg dry	216	130	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 216	R01	µg/kg dry	216	112	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.6		µg/kg dry	21.6	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.6		µg/kg dry	21.6	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.91	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*295*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.9**		%			1	SM2540 G Mod.	07-Aug-13	07-Aug-13	DT	1318819	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-WBS02(5)-1 SB74437-08	60225155	Soil	06-Aug-13 13:39	06-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 210	R01	µg/kg dry	210	157	1	SW846 8082A	06-Aug-13	08-Aug-13	IMR	1318744	X
11104-28-2	Aroclor-1221	< 210	R01	µg/kg dry	210	189	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 210	R01	µg/kg dry	210	135	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 210	R01	µg/kg dry	210	126	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 210	R01	µg/kg dry	210	109	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.0		µg/kg dry	21.0	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.0		µg/kg dry	21.0	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.65	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.2**		%			1	SM2540 G Mod.	07-Aug-13	07-Aug-13	DT	1318819	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-EB00(4)-1 SB74437-09	60225155	Soil	06-Aug-13 13:40	06-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	15.7	1	SW846 8082A	06-Aug-13	08-Aug-13	IMR	1318744	X
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	18.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**260**		µg/kg dry	21.0	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.0		µg/kg dry	21.0	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.0		µg/kg dry	21.0	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.66	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.2**		%			1	SM2540 G Mod.	07-Aug-13	07-Aug-13	DT	1318819	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-EBN01(5)-1 SB74437-10	60225155	Soil	06-Aug-13 13:41	06-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.2		µg/kg dry	22.2	16.6	1	SW846 8082A	06-Aug-13	08-Aug-13	IMR	1318744	X
11104-28-2	Aroclor-1221	< 22.2		µg/kg dry	22.2	20.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.2		µg/kg dry	22.2	14.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.2		µg/kg dry	22.2	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**2,520**		µg/kg dry	22.2	11.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.2		µg/kg dry	22.2	18.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**105**		µg/kg dry	22.2	11.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.2		µg/kg dry	22.2	20.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.2		µg/kg dry	22.2	9.15	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**86.2**		%			1	SM2540 G Mod.	07-Aug-13	07-Aug-13	DT	1318819	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-EBN02(4)-1 SB74437-11	60225155	Soil	06-Aug-13 13:42	06-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.9		µg/kg dry	19.9	14.9	1	SW846 8082A	06-Aug-13	08-Aug-13	IMR	1318744	X
11104-28-2	Aroclor-1221	< 19.9		µg/kg dry	19.9	17.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.9		µg/kg dry	19.9	12.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.9		µg/kg dry	19.9	12.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**2,890**		µg/kg dry	19.9	10.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.9		µg/kg dry	19.9	16.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**88.5**		µg/kg dry	19.9	9.96	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.9		µg/kg dry	19.9	18.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.9		µg/kg dry	19.9	8.21	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**95.7**		%			1	SM2540 G Mod.	07-Aug-13	07-Aug-13	DT	1318819	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-EBS01(3)-1 SB74437-12	60225155	Soil	06-Aug-13 13:43	06-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.7		µg/kg dry	20.7	15.4	1	SW846 8082A	06-Aug-13	08-Aug-13	IMR	1318744	X
11104-28-2	Aroclor-1221	< 20.7		µg/kg dry	20.7	18.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.7		µg/kg dry	20.7	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.7		µg/kg dry	20.7	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.7		µg/kg dry	20.7	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.7		µg/kg dry	20.7	17.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.7		µg/kg dry	20.7	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.7		µg/kg dry	20.7	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.7		µg/kg dry	20.7	8.53	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.9**		%			1	SM2540 G Mod.	07-Aug-13	07-Aug-13	DT	1318819	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1318744 - SW846 3540C										
Blank (1318744-BLK1)					Prepared: 06-Aug-13 Analyzed: 07-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*25.0*		µg/kg wet		*20.0*		*125*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
LCS (1318744-BS1)					Prepared: 06-Aug-13 Analyzed: 07-Aug-13					
Aroclor-1016	**289**		µg/kg wet	20.0	250		116	40-140		
Aroclor-1016 [2C]	**268**		µg/kg wet	20.0	250		107	40-140		
Aroclor-1260	**231**		µg/kg wet	20.0	250		92	40-140		
Aroclor-1260 [2C]	**240**		µg/kg wet	20.0	250		96	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
LCS Dup (1318744-BSD1)					Prepared: 06-Aug-13 Analyzed: 07-Aug-13					
Aroclor-1016	**280**		µg/kg wet	20.0	250		112	40-140	3	30
Aroclor-1016 [2C]	**284**		µg/kg wet	20.0	250		114	40-140	6	30
Aroclor-1260	**225**		µg/kg wet	20.0	250		90	40-140	3	30
Aroclor-1260 [2C]	**253**		µg/kg wet	20.0	250		101	40-140	5	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Duplicate (1318744-DUP1)			**Source: SB74437-08**		Prepared: 06-Aug-13 Analyzed: 07-Aug-13					
Aroclor-1016	< 210	R01	µg/kg dry	210		BRL				30
Aroclor-1016 [2C]	< 210	R01	µg/kg dry	210		BRL				30
Aroclor-1221	< 210	R01	µg/kg dry	210		BRL				30
Aroclor-1221 [2C]	< 210	R01	µg/kg dry	210		BRL				30
Aroclor-1232	< 210	R01	µg/kg dry	210		BRL				30
Aroclor-1232 [2C]	< 210	R01	µg/kg dry	210		BRL				30
Aroclor-1242	< 210	R01	µg/kg dry	210		BRL				30
Aroclor-1242 [2C]	< 210	R01	µg/kg dry	210		BRL				30
Aroclor-1248	< 210	R01	µg/kg dry	210		BRL				30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1318744 - SW846 3540C										
Duplicate (1318744-DUP1)			**Source: SB74437-08**			Prepared: 06-Aug-13 Analyzed: 07-Aug-13				
Aroclor-1248 [2C]	< 210	R01	µg/kg dry	210		BRL				30
Aroclor-1254	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1254 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1260	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1260 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1262	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1262 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1268	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1268 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg dry		*21.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*28.3*		µg/kg dry		*21.0*		*135*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.8*		µg/kg dry		*21.0*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*27.2*		µg/kg dry		*21.0*		*130*	*30-150*		
Matrix Spike (1318744-MS1)			**Source: SB74437-08**			Prepared: 06-Aug-13 Analyzed: 07-Aug-13				
Aroclor-1016	**455**	QM1	µg/kg dry	21.7	272	BRL	168	40-140		
Aroclor-1016 [2C]	**445**	QM1	µg/kg dry	21.7	272	BRL	164	40-140		
Aroclor-1260	**174**		µg/kg dry	21.7	272	BRL	64	40-140		
Aroclor-1260 [2C]	**257**		µg/kg dry	21.7	272	BRL	95	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.9*		µg/kg dry		*21.7*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*9.78*		µg/kg dry		*21.7*		*45*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.4*		µg/kg dry		*21.7*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*26.1*		µg/kg dry		*21.7*		*120*	*30-150*		
Matrix Spike Dup (1318744-MSD1)			**Source: SB74437-08**			Prepared: 06-Aug-13 Analyzed: 07-Aug-13				
Aroclor-1016	**521**	QM1	µg/kg dry	21.7	271	BRL	192	40-140	14	30
Aroclor-1016 [2C]	**485**	QM1	µg/kg dry	21.7	271	BRL	179	40-140	9	30
Aroclor-1260	**194**		µg/kg dry	21.7	271	BRL	72	40-140	11	30
Aroclor-1260 [2C]	**260**		µg/kg dry	21.7	271	BRL	96	40-140	1	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*29.2*		µg/kg dry		*21.7*		*135*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*32.5*		µg/kg dry		*21.7*		*150*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.3*		µg/kg dry		*21.7*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*26.0*		µg/kg dry		*21.7*		*120*	*30-150*		

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
QM1	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
R01	The Reporting Limit has been raised to account for matrix interference.
S01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk

SB74437 RH

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC2A | Page: 1 of 2

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-2A	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED		ADDITIONAL INFORMATION
						PRESERV.	Store cool at 4°C	
						ANALYSIS	PCBs-Soxhelt Extraction 8082/3540	
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers			
AOC-2A - AA00(5)-1	Soil	8/6/2013	1330	G=Grab	1		X	SB74437.01
AOC-2A - AAN01(5)-1	Soil	8/6/2013	1332	G=Grab	1		X	-02
AOC-2A - AAN02(5)-1	Soil	8/6/2013	1334	G=Grab	1		X	-03
AOC-2A - AAS01(5)-1	Soil	8/6/2013	1335	G=Grab	1		X	-04
AOC-2A - AAS02(5)-1	Soil	8/6/2013	1336	G=Grab	1		X	-05
AOC-2A - WB00(5)-1	Soil	8/6/2013	1337	G=Grab	1		X	-06
AOC-2A - WBS01(5)-1	Soil	8/6/2013	1338	G=Grab	1		X	-07
AOC-2A - WBS02(5)-1	Soil	8/6/2013	1339	G=Grab	1		X	-08
AOC-2A - EB00(4)-1	Soil	8/6/2013	1340	G=Grab	1		X	-09
AOC-2A EBN01(5)-1	Soil	8/6/2013	1341	G=Grab	1		X	-10

Additional Comments/Special Instructions		Date	Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples	Julie Williams Jet	8-6-13		Jet	8/6/13	3:30P	Y / N	Y / N	Y / N	
					8/6/13	1800	Y / N	Y / N	Y / N	
							Y / N	Y / N	Y / N	
							Y / N	Y / N	Y / N	

				Temp in °C	Samples on ice?	Sample intact?	Trip Blank?
Sampler's Name	Julie Williams	Mobile #	631-786-6107				
Sampler's Signature	Julie Williams						

3/10/14 IR02

SB74437Rm

AECOM — **Chain Of Custody Record**

COC ID: COC_GHS MISA_AOC2A

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-2A	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aeocm.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS / ANALYSIS REQUESTED / ADDITIONAL INFORMATION

PRESERV.: Store cool at 4°C
ANALYSIS: W-PCBs-Soxhelt Extraction 8082/3540

Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	W-PCBs-Soxhelt Extraction 8082/3540	Additional Information
AOC-2A - EBN02(4)-1	Soil	8/6/2013	1342	G=Grab	1	X	SB74437.11
AOC-2A - EBS01(3)-1	Soil	8/6/2013	1343	G=Grab	1	X	↓ -12
~~AOC-2A~~	~~Soil~~	~~8/6/2013~~		~~G=Grab~~	~~1~~	~~X~~ gw	
~~AOC-2A~~	~~Soil~~	~~8/6/2013~~		~~G=Grab~~	~~1~~	~~X~~ gw	
~~AOC-2A~~	~~Soil~~	~~8/6/2013~~		~~G=Grab~~	~~1~~	~~X~~ gw	
~~AOC-2A~~	~~Soil~~	~~8/6/2013~~		~~G=Grab~~	~~1~~	~~X~~ gw	
~~AOC-2A~~	~~Soil~~	~~8/6/2013~~		~~G=Grab~~	~~1~~	~~X~~ gw	
~~AOC-2A~~	~~Soil~~	~~8/6/2013~~		~~G=Grab~~	~~1~~	~~X~~ gw	
~~AOC-2A~~	~~Soil~~	~~8/6/2013~~		~~G=Grab~~	~~1~~	~~X~~ gw	
~~AOC-2A~~	~~Soil~~	~~8/6/2013~~		~~G=Grab~~	~~1~~	~~X~~ gw	

Additional Comments/Special Instructions

48 Hour Rush on PCB samples

Relinquished By	Date	Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions		
Julie Williams	8-6-13		JET	8/6/13	3:30 PM	Y / N	Y / N	Y / N
JET				8/6/13	1805	Y / N	Y / N	Y / N
						Y / N	Y / N	Y / N
						Y / N	Y / N	Y / N

Temp in °C	Samples on ice?	Sample intact?	Trip Blank?

Sampler's Name: Julie Williams | **Mobile #:** 631-786-6107

Sampler's Signature: Julie Williams (signature)

3.4/0/3.4 IR CR

Report Date:
09-Aug-13 15:59

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: GHS- MISA - Greenwich, CT
Project #: 60225155

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74515-01	AOC-3-BOT1(8)-1	Soil	07-Aug-13 14:22	07-Aug-13 17:10
SB74515-02	AOC-3-NSW1(4)-1	Soil	07-Aug-13 14:16	07-Aug-13 17:10
SB74515-03	AOC-3-SSW1(4)-1	Soil	07-Aug-13 14:20	07-Aug-13 17:10
SB74515-04	AOC-3-ESW1(4)-1	Soil	07-Aug-13 14:18	07-Aug-13 17:10
SB74515-05	AOC-3-WSW1(4)-1	Soil	07-Aug-13 14:13	07-Aug-13 17:10
SB74515-06	AOC-3-BOT2(8)-1	Soil	07-Aug-13 14:15	07-Aug-13 17:10
SB74515-07	AOC-3-NSW2(4)-1	Soil	07-Aug-13 14:10	07-Aug-13 17:10
SB74515-08	AOC-3-SSW2(4)-1	Soil	07-Aug-13 14:11	07-Aug-13 17:10
SB74515-09	AOC-3-ESW2(4)-1	Soil	07-Aug-13 14:12	07-Aug-13 17:10
SB74515-10	AOC-3-WSW2(4)-1	Soil	07-Aug-13 14:17	07-Aug-13 17:10

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 31 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: GHS- MISA - Greenwich, CT

Project Number: 60225155

Sampling Date(s):
8/7/2013

Laboratory Sample ID(s):
SB74515-01 through SB74515-10

RCP Methods Used:

CT ETPH
SW846 1312
SW846 1312/6010C
SW846 6010C
SW846 8082A

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/9/2013

CASE NARRATIVE:

The samples were received 0.1 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

CT ETPH

Duplicates:

1318868-DUP1 *Source: SB74515-03*

Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.

C9-C36 Aliphatic Hydrocarbons
Total Petroleum Hydrocarbons

Samples:

SB74515-06 *AOC-3-BOT2(8)-1*

The Reporting Limit has been raised to account for matrix interference.

SW846 8082A

Samples:

SB74515-02 *AOC-3-NSW1(4)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SW846 8082A

Samples:

SB74515-10 *AOC-3-WSW2(4)-1*

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

Decachlorobiphenyl (Sr)

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	GHS- MISA - Greenwich, CT / 60225155
Work Order:	SB74515
Sample(s) received on:	8/7/2013
Received by:	Vickie Knowles

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-3-BOT1(8)-1 SB74515-01	60225155	Soil	07-Aug-13 14:22	07-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.0		µg/kg dry	22.0	16.5	1	SW846 8082A	07-Aug-13	08-Aug-13	IMR	1318871	X
11104-28-2	Aroclor-1221	< 22.0		µg/kg dry	22.0	19.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.0		µg/kg dry	22.0	14.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.0		µg/kg dry	22.0	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**460**		µg/kg dry	22.0	11.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.0		µg/kg dry	22.0	18.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.0		µg/kg dry	22.0	13.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.09	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.5		mg/kg dry	29.5	1.5	1	CT ETPH	07-Aug-13	08-Aug-13	SEP	1318868	
68476-30-2	Fuel Oil #2	< 29.5		mg/kg dry	29.5	3.0	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 29.5		mg/kg dry	29.5	3.0	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.5		mg/kg dry	29.5	7.4	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.5		mg/kg dry	29.5	3.0	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.5		mg/kg dry	29.5	7.4	1	"	"	"	"	"	
	Unidentified	**322**		mg/kg dry	29.5	7.4	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	29.5	3.0	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**322**		mg/kg dry	29.5	3.0	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**322**		mg/kg dry	29.5	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*92*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7439-92-1	Lead	**76.9**		mg/kg dry	1.62	0.598	1	SW846 6010C	07-Aug-13	09-Aug-13	TBC	1318870	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Metals Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	07-Aug-13	08-Aug-13	CMB	1318842	X
	Final pH of leachate	**9.80**		N/A			1	"	"	"	"	"	
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0042	1	SW846 1312/6010C	08-Aug-13	09-Aug-13	edt	1318891	X
General Chemistry Parameters													
	% Solids	**87.6**		%			1	SM2540 G Mod.	08-Aug-13	08-Aug-13	DT	1318945	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-3-NSW1(4)-1 SB74515-02	60225155	Soil	07-Aug-13 14:16	07-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 220	R01	µg/kg dry	220	165	1	SW846 8082A	07-Aug-13	08-Aug-13	IMR	1318871	X
11104-28-2	Aroclor-1221	< 220	R01	µg/kg dry	220	199	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 220	R01	µg/kg dry	220	142	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 220	R01	µg/kg dry	220	133	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 220	R01	µg/kg dry	220	115	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.0		µg/kg dry	22.0	18.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.0		µg/kg dry	22.0	13.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.09	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.7		mg/kg dry	29.7	1.5	1	CT ETPH	07-Aug-13	08-Aug-13	SEP	1318868	
68476-30-2	Fuel Oil #2	< 29.7		mg/kg dry	29.7	3.0	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 29.7		mg/kg dry	29.7	3.0	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.7		mg/kg dry	29.7	7.4	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.7		mg/kg dry	29.7	3.0	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.7		mg/kg dry	29.7	7.4	1	"	"	"	"	"	
	Unidentified	< 29.7		mg/kg dry	29.7	7.4	1	"	"	"	"	"	
	Other Oil	< 29.7		mg/kg dry	29.7	3.0	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 29.7		mg/kg dry	29.7	3.0	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 29.7		mg/kg dry	29.7	2.8	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*81*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7439-92-1	Lead	**104**		mg/kg dry	1.68	0.620	1	SW846 6010C	07-Aug-13	09-Aug-13	TBC	1318870	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Metals Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	07-Aug-13	08-Aug-13	CMB	1318842	X
	Final pH of leachate	**9.11**		N/A			1	"	"	"	"	"	
7439-92-1	Lead	**0.0234**		mg/l	0.0150	0.0042	1	SW846 1312/6010C	08-Aug-13	09-Aug-13	edt	1318891	X
General Chemistry Parameters													
	% Solids	**88.5**		%			1	SM2540 G Mod.	08-Aug-13	08-Aug-13	DT	1318945	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-3-SSW1(4)-1 SB74515-03	60225155	Soil	07-Aug-13 14:20	07-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.5		µg/kg dry	21.5	16.1	1	SW846 8082A	07-Aug-13	08-Aug-13	IMR	1318871	X
11104-28-2	Aroclor-1221	< 21.5		µg/kg dry	21.5	19.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.5		µg/kg dry	21.5	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.5		µg/kg dry	21.5	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**50.6**		µg/kg dry	21.5	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.5		µg/kg dry	21.5	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.5		µg/kg dry	21.5	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.5		µg/kg dry	21.5	20.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.5		µg/kg dry	21.5	8.89	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 27.8		mg/kg dry	27.8	1.4	1	CT ETPH	07-Aug-13	08-Aug-13	SEP	1318868	
68476-30-2	Fuel Oil #2	< 27.8		mg/kg dry	27.8	2.8	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 27.8		mg/kg dry	27.8	2.8	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 27.8		mg/kg dry	27.8	7.0	1	"	"	"	"	"	
M09800000	Motor Oil	< 27.8		mg/kg dry	27.8	2.8	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 27.8		mg/kg dry	27.8	7.0	1	"	"	"	"	"	
	Unidentified	< 27.8		mg/kg dry	27.8	7.0	1	"	"	"	"	"	
	Other Oil	< 27.8		mg/kg dry	27.8	2.8	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 27.8		mg/kg dry	27.8	2.8	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 27.8		mg/kg dry	27.8	2.6	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*68*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7439-92-1	Lead	**26.6**		mg/kg dry	1.44	0.531	1	SW846 6010C	07-Aug-13	09-Aug-13	TBC	1318870	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Metals Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	07-Aug-13	08-Aug-13	CMB	1318842	X
	Final pH of leachate	**9.65**		N/A			1	"	"	"	"	"	
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0042	1	SW846 1312/6010C	08-Aug-13	09-Aug-13	edt	1318891	X
General Chemistry Parameters													
	% Solids	**90.0**		%			1	SM2540 G Mod.	08-Aug-13	08-Aug-13	DT	1318945	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-3-ESW1(4)-1 SB74515-04	60225155	Soil	07-Aug-13 14:18	07-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.0		µg/kg dry	22.0	16.4	1	SW846 8082A	07-Aug-13	08-Aug-13	IMR	1318871	X
11104-28-2	Aroclor-1221	< 22.0		µg/kg dry	22.0	19.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.0		µg/kg dry	22.0	14.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.0		µg/kg dry	22.0	13.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,740**		µg/kg dry	22.0	11.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.0		µg/kg dry	22.0	18.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**63.7**		µg/kg dry	22.0	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.05	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.3		mg/kg dry	29.3	1.5	1	CT ETPH	07-Aug-13	08-Aug-13	SEP	1318868	
68476-30-2	Fuel Oil #2	< 29.3		mg/kg dry	29.3	2.9	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 29.3		mg/kg dry	29.3	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.3		mg/kg dry	29.3	7.3	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.3		mg/kg dry	29.3	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.3		mg/kg dry	29.3	7.3	1	"	"	"	"	"	
	Unidentified	**66.3**		mg/kg dry	29.3	7.3	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	29.3	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**66.3**		mg/kg dry	29.3	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**66.3**		mg/kg dry	29.3	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*100*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7439-92-1	Lead	**286**		mg/kg dry	1.63	0.602	1	SW846 6010C	07-Aug-13	09-Aug-13	TBC	1318870	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Metals Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	07-Aug-13	08-Aug-13	CMB	1318842	X
	Final pH of leachate	**10.4**		N/A			1	"	"	"	"	"	
7439-92-1	Lead	**0.0873**		mg/l	0.0150	0.0042	1	SW846 1312/6010C	08-Aug-13	09-Aug-13	edt	1318891	X
General Chemistry Parameters													
	% Solids	**86.4**		%			1	SM2540 G Mod.	08-Aug-13	08-Aug-13	DT	1318945	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-3-WSW1(4)-1 SB74515-05	60225155	Soil	07-Aug-13 14:13	07-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.2		µg/kg dry	21.2	15.9	1	SW846 8082A	07-Aug-13	08-Aug-13	IMR	1318871	X
11104-28-2	Aroclor-1221	< 21.2		µg/kg dry	21.2	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.2		µg/kg dry	21.2	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.2		µg/kg dry	21.2	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**787**		µg/kg dry	21.2	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.2		µg/kg dry	21.2	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.76	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.9		mg/kg dry	28.9	1.4	1	CT ETPH	08-Aug-13	09-Aug-13	SEP	1318883	
68476-30-2	Fuel Oil #2	< 28.9		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 28.9		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.9		mg/kg dry	28.9	7.2	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.9		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.9		mg/kg dry	28.9	7.2	1	"	"	"	"	"	
	Unidentified	**88.7**		mg/kg dry	28.9	7.2	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**88.7**		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**88.7**		mg/kg dry	28.9	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*94*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7439-92-1	Lead	**44.5**		mg/kg dry	1.51	0.557	1	SW846 6010C	07-Aug-13	09-Aug-13	TBC	1318870	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Metals Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	07-Aug-13	08-Aug-13	CMB	1318842	X
	Final pH of leachate	**7.72**		N/A			1	"	"	"	"	"	
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0042	1	SW846 1312/6010C	08-Aug-13	09-Aug-13	edt	1318891	X
General Chemistry Parameters													
	% Solids	**91.0**		%			1	SM2540 G Mod.	08-Aug-13	08-Aug-13	DT	1318945	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-3-BOT2(8)-1 SB74515-06	60225155	Soil	07-Aug-13 14:15	07-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.8		µg/kg dry	22.8	17.1	1	SW846 8082A	07-Aug-13	08-Aug-13	IMR	1318871	X
11104-28-2	Aroclor-1221	< 22.8		µg/kg dry	22.8	20.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.8		µg/kg dry	22.8	14.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.8		µg/kg dry	22.8	13.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**911**		µg/kg dry	22.8	11.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.8		µg/kg dry	22.8	19.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**39.9**		µg/kg dry	22.8	14.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.8		µg/kg dry	22.8	21.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.8		µg/kg dry	22.8	9.42	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C			R01										
8006-61-9	Gasoline	< 57.7	D	mg/kg dry	57.7	2.9	2	CT ETPH	08-Aug-13	09-Aug-13	SEP	1318883	
68476-30-2	Fuel Oil #2	< 57.7	D	mg/kg dry	57.7	5.8	2	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 57.7	D	mg/kg dry	57.7	5.8	2	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 57.7	D	mg/kg dry	57.7	14.4	2	"	"	"	"	"	
M09800000	Motor Oil	< 57.7	D	mg/kg dry	57.7	5.8	2	"	"	"	"	"	
J00100000	Aviation Fuel	< 57.7	D	mg/kg dry	57.7	14.4	2	"	"	"	"	"	
	Unidentified	**420**	D	mg/kg dry	57.7	14.4	2	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	57.7	5.8	2	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**420**	D	mg/kg dry	57.7	5.8	2	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**420**	D	mg/kg dry	57.7	5.3	2	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*87*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7439-92-1	Lead	**4,100**		mg/kg dry	1.63	0.602	1	SW846 6010C	07-Aug-13	09-Aug-13	TBC	1318870	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Metals Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	07-Aug-13	08-Aug-13	CMB	1318842	X
	Final pH of leachate	**8.49**		N/A			1	"	"	"	"	"	
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0042	1	SW846 1312/6010C	08-Aug-13	09-Aug-13	edt	1318891	X
General Chemistry Parameters													
	% Solids	**87.1**		%			1	SM2540 G Mod.	08-Aug-13	08-Aug-13	DT	1318945	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-3-NSW2(4)-1 SB74515-07	60225155	Soil	07-Aug-13 14:10	07-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	07-Aug-13	08-Aug-13	IMR	1318871	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**424**		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	< 20.8		µg/kg dry	20.8	10.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.57	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.0		mg/kg dry	29.0	1.4	1	CT ETPH	08-Aug-13	09-Aug-13	SEP	1318883	
68476-30-2	Fuel Oil #2	< 29.0		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 29.0		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.0		mg/kg dry	29.0	7.2	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.0		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.0		mg/kg dry	29.0	7.2	1	"	"	"	"	"	
	Unidentified	**69.1**		mg/kg dry	29.0	7.2	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**69.1**		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**69.1**		mg/kg dry	29.0	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*112*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7439-92-1	Lead	**65.6**		mg/kg dry	1.63	0.601	1	SW846 6010C	07-Aug-13	09-Aug-13	TBC	1318870	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Metals Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	07-Aug-13	08-Aug-13	CMB	1318842	X
	Final pH of leachate	**9.65**		N/A			1	"	"	"	"	"	
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0042	1	SW846 1312/6010C	08-Aug-13	09-Aug-13	edt	1318891	X
General Chemistry Parameters													
	% Solids	**91.5**		%			1	SM2540 G Mod.	08-Aug-13	08-Aug-13	DT	1318945	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-3-SSW2(4)-1 SB74515-08	60225155	Soil	07-Aug-13 14:11	07-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.1		µg/kg dry	22.1	16.5	1	SW846 8082A	07-Aug-13	08-Aug-13	IMR	1318871	X
11104-28-2	Aroclor-1221	< 22.1		µg/kg dry	22.1	19.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.1		µg/kg dry	22.1	14.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.1		µg/kg dry	22.1	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**564**		µg/kg dry	22.1	11.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.1		µg/kg dry	22.1	18.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**25.4**		µg/kg dry	22.1	11.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.1		µg/kg dry	22.1	20.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.1		µg/kg dry	22.1	9.13	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 30.1		mg/kg dry	30.1	1.5	1	CT ETPH	08-Aug-13	09-Aug-13	SEP	1318883	
68476-30-2	Fuel Oil #2	< 30.1		mg/kg dry	30.1	3.0	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 30.1		mg/kg dry	30.1	3.0	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 30.1		mg/kg dry	30.1	7.5	1	"	"	"	"	"	
M09800000	Motor Oil	< 30.1		mg/kg dry	30.1	3.0	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 30.1		mg/kg dry	30.1	7.5	1	"	"	"	"	"	
	Unidentified	**66.3**		mg/kg dry	30.1	7.5	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	30.1	3.0	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**66.3**		mg/kg dry	30.1	3.0	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**66.3**		mg/kg dry	30.1	2.8	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*93*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7439-92-1	Lead	**155**		mg/kg dry	1.65	0.610	1	SW846 6010C	07-Aug-13	09-Aug-13	TBC	1318870	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Metals Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	07-Aug-13	08-Aug-13	CMB	1318842	X
	Final pH of leachate	**9.72**		N/A			1	"	"	"	"	"	
7439-92-1	Lead	**0.0190**		mg/l	0.0150	0.0042	1	SW846 1312/6010C	08-Aug-13	09-Aug-13	edt	1318891	X
General Chemistry Parameters													
	% Solids	**87.8**		%			1	SM2540 G Mod.	08-Aug-13	08-Aug-13	DT	1318945	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-3-ESW2(4)-1 SB74515-09	60225155	Soil	07-Aug-13 14:12	07-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	15.7	1	SW846 8082A	07-Aug-13	08-Aug-13	IMR	1318871	X
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	18.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,500**		µg/kg dry	21.0	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.0		µg/kg dry	21.0	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**72.3**		µg/kg dry	21.0	10.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.65	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.8		mg/kg dry	29.8	1.5	1	CT ETPH	08-Aug-13	09-Aug-13	SEP	1318883	
68476-30-2	Fuel Oil #2	< 29.8		mg/kg dry	29.8	3.0	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 29.8		mg/kg dry	29.8	3.0	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.8		mg/kg dry	29.8	7.5	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.8		mg/kg dry	29.8	3.0	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.8		mg/kg dry	29.8	7.5	1	"	"	"	"	"	
	Unidentified	**99.3**		mg/kg dry	29.8	7.5	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	29.8	3.0	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**99.3**		mg/kg dry	29.8	3.0	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**99.3**		mg/kg dry	29.8	2.8	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*99*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7439-92-1	Lead	**168**		mg/kg dry	1.52	0.562	1	SW846 6010C	07-Aug-13	09-Aug-13	TBC	1318870	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Metals Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	07-Aug-13	08-Aug-13	CMB	1318842	X
	Final pH of leachate	**10.0**		N/A			1	"	"	"	"	"	
7439-92-1	Lead	**0.0244**		mg/l	0.0150	0.0042	1	SW846 1312/6010C	08-Aug-13	09-Aug-13	edt	1318891	X
General Chemistry Parameters													
	% Solids	**87.7**		%			1	SM2540 G Mod.	08-Aug-13	08-Aug-13	DT	1318946	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-3-WSW2(4)-1 SB74515-10	60225155	Soil	07-Aug-13 14:17	07-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.6		µg/kg dry	20.6	15.4	1	SW846 8082A	07-Aug-13	08-Aug-13	IMR	1318871	X
11104-28-2	Aroclor-1221	< 20.6		µg/kg dry	20.6	18.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.6		µg/kg dry	20.6	13.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.6		µg/kg dry	20.6	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**3,410**		µg/kg dry	20.6	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**144**		µg/kg dry	20.6	10.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.48	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*175*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.5		mg/kg dry	29.5	1.5	1	CT ETPH	08-Aug-13	09-Aug-13	SEP	1318883	
68476-30-2	Fuel Oil #2	< 29.5		mg/kg dry	29.5	3.0	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 29.5		mg/kg dry	29.5	3.0	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.5		mg/kg dry	29.5	7.4	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.5		mg/kg dry	29.5	3.0	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.5		mg/kg dry	29.5	7.4	1	"	"	"	"	"	
	Unidentified	**147**		mg/kg dry	29.5	7.4	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	29.5	3.0	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**147**		mg/kg dry	29.5	3.0	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**147**		mg/kg dry	29.5	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*99*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7439-92-1	Lead	**457**		mg/kg dry	1.59	0.587	1	SW846 6010C	07-Aug-13	09-Aug-13	TBC	1318870	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Metals Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	07-Aug-13	08-Aug-13	CMB	1318842	X
	Final pH of leachate	**9.00**		N/A			1	"	"	"	"	"	
7439-92-1	Lead	**0.0496**		mg/l	0.0150	0.0042	1	SW846 1312/6010C	08-Aug-13	09-Aug-13	edt	1318891	X
General Chemistry Parameters													
	% Solids	**88.8**		%			1	SM2540 G Mod.	08-Aug-13	08-Aug-13	DT	1318946	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1318871 - SW846 3540C										
Blank (1318871-BLK1)						Prepared: 07-Aug-13 Analyzed: 08-Aug-13				
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
LCS (1318871-BS1)						Prepared: 07-Aug-13 Analyzed: 08-Aug-13				
Aroclor-1016	**256**		µg/kg wet	20.0	250		102	40-140		
Aroclor-1016 [2C]	**232**		µg/kg wet	20.0	250		93	40-140		
Aroclor-1260	**203**		µg/kg wet	20.0	250		81	40-140		
Aroclor-1260 [2C]	**221**		µg/kg wet	20.0	250		88	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*26.0*		µg/kg wet		*20.0*		*130*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*27.0*		µg/kg wet		*20.0*		*135*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*25.0*		µg/kg wet		*20.0*		*125*	*30-150*		
LCS Dup (1318871-BSD1)						Prepared: 07-Aug-13 Analyzed: 08-Aug-13				
Aroclor-1016	**251**		µg/kg wet	20.0	250		100	40-140	2	30
Aroclor-1016 [2C]	**233**		µg/kg wet	20.0	250		93	40-140	0.4	30
Aroclor-1260	**206**		µg/kg wet	20.0	250		82	40-140	1	30
Aroclor-1260 [2C]	**217**		µg/kg wet	20.0	250		87	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*26.0*		µg/kg wet		*20.0*		*130*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*25.0*		µg/kg wet		*20.0*		*125*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*25.0*		µg/kg wet		*20.0*		*125*	*30-150*		

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1318868 - SW846 3550C										
Blank (1318868-BLK1)					Prepared & Analyzed: 07-Aug-13					
Gasoline	< 26.6		mg/kg wet	26.6						
Fuel Oil #2	< 26.6		mg/kg wet	26.6						
Fuel Oil #4	< 26.6		mg/kg wet	26.6						
Fuel Oil #6	< 26.6		mg/kg wet	26.6						
Motor Oil	< 26.6		mg/kg wet	26.6						
Aviation Fuel	< 26.6		mg/kg wet	26.6						
Unidentified	< 26.6		mg/kg wet	26.6						
Other Oil	< 26.6		mg/kg wet	26.6						
Total Petroleum Hydrocarbons	< 26.6		mg/kg wet	26.6						
C9-C36 Aliphatic Hydrocarbons	< 26.6		mg/kg wet	26.6						
n-Nonadecane	< 0.005		mg/kg wet	0.005						
n-Nonane	< 0.005		mg/kg wet	0.005						
n-Decane	< 0.005		mg/kg wet	0.005						
n-Dodecane	< 0.005		mg/kg wet	0.005						
n-Tetradecane	< 0.005		mg/kg wet	0.005						
n-Hexadecane	< 0.005		mg/kg wet	0.005						
n-Octadecane	< 0.005		mg/kg wet	0.005						
n-Eicosane	< 0.005		mg/kg wet	0.005						
n-Docosane	< 0.005		mg/kg wet	0.005						
n-Tetracosane	< 0.005		mg/kg wet	0.005						
n-Hexacosane	< 0.005		mg/kg wet	0.005						
n-Octacosane	< 0.005		mg/kg wet	0.005						
n-Triacontane	< 0.005		mg/kg wet	0.005						
n-Hexatriacontane	< 0.005		mg/kg wet	0.005						
Surrogate: 1-Chlorooctadecane	*1.01*		mg/kg wet		*1.67*		*60*	*50-150*		
LCS (1318868-BS1)					Prepared & Analyzed: 07-Aug-13					
C9-C36 Aliphatic Hydrocarbons	**45.2**		mg/kg wet	26.6	46.7		97	60-120		
Surrogate: 1-Chlorooctadecane	*1.93*		mg/kg wet		*3.33*		*58*	*50-150*		
Duplicate (1318868-DUP1)			**Source: SB74515-03**		Prepared: 07-Aug-13 Analyzed: 08-Aug-13					
Gasoline	< 29.3		mg/kg dry	29.3		BRL				50
Fuel Oil #2	< 29.3		mg/kg dry	29.3		BRL				50
Fuel Oil #4	< 29.3		mg/kg dry	29.3		BRL				50
Fuel Oil #6	< 29.3		mg/kg dry	29.3		BRL				50
Motor Oil	< 29.3		mg/kg dry	29.3		BRL				50
Aviation Fuel	< 29.3		mg/kg dry	29.3		BRL				50
Unidentified	< 29.3		mg/kg dry	29.3		BRL				50
Other Oil	< 29.3		mg/kg dry	29.3		BRL				50
Total Petroleum Hydrocarbons	**27.0**	J,QM4	mg/kg dry	29.3		15.6			54	50
C9-C36 Aliphatic Hydrocarbons	**27.0**	J,QM4	mg/kg dry	29.3		15.6			54	50
Surrogate: 1-Chlorooctadecane	*4.00*		mg/kg dry		*3.67*		*109*	*50-150*		
Matrix Spike (1318868-MS1)			**Source: SB74515-03**		Prepared: 07-Aug-13 Analyzed: 08-Aug-13					
C9-C36 Aliphatic Hydrocarbons	**95.1**		mg/kg dry	28.7	101	15.6	79	50-150		
Surrogate: 1-Chlorooctadecane	*3.03*		mg/kg dry		*3.60*		*84*	*50-150*		
Matrix Spike Dup (1318868-MSD1)			**Source: SB74515-03**		Prepared: 07-Aug-13 Analyzed: 08-Aug-13					
C9-C36 Aliphatic Hydrocarbons	**99.0**		mg/kg dry	28.5	99.9	15.6	84	50-150	6	30
Surrogate: 1-Chlorooctadecane	*2.98*		mg/kg dry		*3.57*		*84*	*50-150*		
Batch 1318883 - SW846 3550C										
Blank (1318883-BLK1)					Prepared & Analyzed: 08-Aug-13					
Gasoline	< 26.6		mg/kg wet	26.6						
Fuel Oil #2	< 26.6		mg/kg wet	26.6						

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1318883 - SW846 3550C										
Blank (1318883-BLK1)						Prepared & Analyzed: 08-Aug-13				
Fuel Oil #4	< 26.6		mg/kg wet	26.6						
Fuel Oil #6	< 26.6		mg/kg wet	26.6						
Motor Oil	< 26.6		mg/kg wet	26.6						
Aviation Fuel	< 26.6		mg/kg wet	26.6						
Unidentified	< 26.6		mg/kg wet	26.6						
Other Oil	< 26.6		mg/kg wet	26.6						
Total Petroleum Hydrocarbons	< 26.6		mg/kg wet	26.6						
C9-C36 Aliphatic Hydrocarbons	< 26.6		mg/kg wet	26.6						
n-Nonadecane	< 0.005		mg/kg wet	0.005						
n-Nonane	< 0.005		mg/kg wet	0.005						
n-Decane	< 0.005		mg/kg wet	0.005						
n-Dodecane	< 0.005		mg/kg wet	0.005						
n-Tetradecane	< 0.005		mg/kg wet	0.005						
n-Hexadecane	< 0.005		mg/kg wet	0.005						
n-Octadecane	< 0.005		mg/kg wet	0.005						
n-Eicosane	< 0.005		mg/kg wet	0.005						
n-Docosane	< 0.005		mg/kg wet	0.005						
n-Tetracosane	< 0.005		mg/kg wet	0.005						
n-Hexacosane	< 0.005		mg/kg wet	0.005						
n-Octacosane	< 0.005		mg/kg wet	0.005						
n-Triacontane	< 0.005		mg/kg wet	0.005						
n-Hexatriacontane	< 0.005		mg/kg wet	0.005						
Surrogate: 1-Chlorooctadecane	*2.38*		mg/kg wet		*3.33*		*71*	*50-150*		
LCS (1318883-BS1)						Prepared & Analyzed: 08-Aug-13				
C9-C36 Aliphatic Hydrocarbons	**90.8**		mg/kg wet	26.6	93.3		97	60-120		
Surrogate: 1-Chlorooctadecane	*3.17*		mg/kg wet		*3.33*		*95*	*50-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1318870 - SW846 3050B										
Blank (1318870-BLK1)						Prepared: 07-Aug-13 Analyzed: 09-Aug-13				
Lead	< 1.44		mg/kg wet	1.44						
Duplicate (1318870-DUP1)			**Source: SB74515-02**			Prepared: 07-Aug-13 Analyzed: 09-Aug-13				
Lead	**114**		mg/kg dry	1.68		104			8	20
Matrix Spike (1318870-MS1)			**Source: SB74515-02**			Prepared: 07-Aug-13 Analyzed: 09-Aug-13				
Lead	**265**		mg/kg dry	1.60	133	104	120	75-125		
Matrix Spike Dup (1318870-MSD1)			**Source: SB74515-02**			Prepared: 07-Aug-13 Analyzed: 09-Aug-13				
Lead	**236**		mg/kg dry	1.54	128	104	102	75-125	12	20
Post Spike (1318870-PS1)			**Source: SB74515-02**			Prepared: 07-Aug-13 Analyzed: 09-Aug-13				
Lead	**224**		mg/kg dry	1.68	140	104	85	80-120		
Reference (1318870-SRM1)						Prepared: 07-Aug-13 Analyzed: 09-Aug-13				
Lead	**64.7**		mg/kg wet	1.50	69.4		93	83.82-116 .91		
Reference (1318870-SRM2)						Prepared: 07-Aug-13 Analyzed: 09-Aug-13				
Lead	**65.2**		mg/kg wet	1.50	69.4		94	83.82-116 .91		

SPLP Metals by EPA 1312 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1318891 - SW846 3010A										
Blank (1318891-BLK1)					Prepared: 08-Aug-13 Analyzed: 09-Aug-13					
Lead	< 0.0150		mg/l	0.0150						
LCS (1318891-BS1)					Prepared: 08-Aug-13 Analyzed: 09-Aug-13					
Lead	**2.37**		mg/l	0.0150	2.50		95	85-115		
LCS Dup (1318891-BSD1)					Prepared: 08-Aug-13 Analyzed: 09-Aug-13					
Lead	**2.35**		mg/l	0.0150	2.50		94	85-115	0.8	20

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1318946 - General Preparation										
Duplicate (1318946-DUP1)			**Source: SB74515-09**			Prepared & Analyzed: 08-Aug-13				
% Solids	**86.4**		%			87.7			1	20

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S304818				
Initial Cal Check (S304818-ICV1)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.270728E+08	-2.8	30
n-Nonadecane	3.561546E+08	3.675153E+08	3.2	30
n-Nonane	3.732875E+08	3.681448E+08	-1.4	30
n-Decane	3.651436E+08	3.651315E+08	-0.003	30
n-Dodecane	3.48398E+08	3.592906E+08	3.1	30
n-Tetradecane	3.588449E+08	3.665299E+08	2.1	30
n-Hexadecane	3.756608E+08	3.74015E+08	-0.4	30
n-Octadecane	3.775606E+08	3.791863E+08	0.4	30
n-Eicosane	3.825055E+08	3.811256E+08	-0.4	30
n-Docosane	3.815533E+08	3.84155E+08	0.7	30
n-Tetracosane	3.82641E+08	3.839073E+08	0.3	30
n-Hexacosane	3.864596E+08	3.855051E+08	-0.2	30
n-Octacosane	3.839113E+08	3.752925E+08	-2.2	30
n-Triacontane	3.841358E+08	3.849129E+08	0.2	30
n-Hexatriacontane	3.752619E+08	3.758944E+08	0.2	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309355				
Calibration Check (S309355-CCV1)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	3.904654E+08	-13.2	30
n-Nonadecane	3.561546E+08	3.143492E+08	-11.7	30
n-Nonane	3.732875E+08	3.138908E+08	-15.9	30
n-Decane	3.651436E+08	3.084227E+08	-15.5	30
n-Dodecane	3.48398E+08	3.033034E+08	-12.9	30
n-Tetradecane	3.588449E+08	3.080365E+08	-14.2	30
n-Hexadecane	3.756608E+08	3.127187E+08	-16.8	30
n-Octadecane	3.775606E+08	3.162273E+08	-16.2	30
n-Eicosane	3.825055E+08	3.1723E+08	-17.1	30
n-Docosane	3.815533E+08	3.147043E+08	-17.5	30
n-Tetracosane	3.82641E+08	3.135248E+08	-18.1	30
n-Hexacosane	3.864596E+08	3.156533E+08	-18.3	30
n-Octacosane	3.839113E+08	3.134901E+08	-18.3	30
n-Triacontane	3.841358E+08	3.127358E+08	-18.6	30
n-Hexatriacontane	3.752619E+08	3.096938E+08	-17.5	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309355				
Calibration Check (S309355-CCV2)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	3.637294E+08	-20.9	30
n-Nonadecane	3.561546E+08	3.167458E+08	-11.1	30
n-Nonane	3.732875E+08	3.161059E+08	-15.3	30
n-Decane	3.651436E+08	3.137905E+08	-14.1	30
n-Dodecane	3.48398E+08	3.063164E+08	-12.1	30
n-Tetradecane	3.588449E+08	3.118498E+08	-13.1	30
n-Hexadecane	3.756608E+08	3.149902E+08	-16.2	30
n-Octadecane	3.775606E+08	3.17944E+08	-15.8	30
n-Eicosane	3.825055E+08	3.19481E+08	-16.5	30
n-Docosane	3.815533E+08	3.171263E+08	-16.9	30
n-Tetracosane	3.82641E+08	3.160652E+08	-17.4	30
n-Hexacosane	3.864596E+08	3.186254E+08	-17.6	30
n-Octacosane	3.839113E+08	3.155652E+08	-17.8	30
n-Triacontane	3.841358E+08	3.164465E+08	-17.6	30
n-Hexatriacontane	3.752619E+08	3.147596E+08	-16.1	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309415				
Calibration Check (S309415-CCV1)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	3.67362E+08	-19.9	30
n-Nonadecane	3.561546E+08	3.205596E+08	-10.0	30
n-Nonane	3.732875E+08	3.195271E+08	-14.4	30
n-Decane	3.651436E+08	3.163947E+08	-13.4	30
n-Dodecane	3.48398E+08	3.103324E+08	-10.9	30
n-Tetradecane	3.588449E+08	3.1476E+08	-12.3	30
n-Hexadecane	3.756608E+08	3.183536E+08	-15.3	30
n-Octadecane	3.775606E+08	3.222615E+08	-14.6	30
n-Eicosane	3.825055E+08	3.237729E+08	-15.4	30
n-Docosane	3.815533E+08	3.220063E+08	-15.6	30
n-Tetracosane	3.82641E+08	3.214652E+08	-16.0	30
n-Hexacosane	3.864596E+08	3.236066E+08	-16.3	30
n-Octacosane	3.839113E+08	3.207302E+08	-16.5	30
n-Triacontane	3.841358E+08	3.210369E+08	-16.4	30
n-Hexatriacontane	3.752619E+08	3.157524E+08	-15.9	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309415				
Calibration Check (S309415-CCV2)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.175969E+08	-5.5	30
n-Nonadecane	3.561546E+08	3.24741E+08	-8.8	30
n-Nonane	3.732875E+08	3.306591E+08	-11.4	30
n-Decane	3.651436E+08	3.278856E+08	-10.2	30
n-Dodecane	3.48398E+08	3.219316E+08	-7.6	30
n-Tetradecane	3.588449E+08	3.233602E+08	-9.9	30
n-Hexadecane	3.756608E+08	3.254912E+08	-13.4	30
n-Octadecane	3.775606E+08	3.272792E+08	-13.3	30
n-Eicosane	3.825055E+08	3.27917E+08	-14.3	30
n-Docosane	3.815533E+08	3.25272E+08	-14.8	30
n-Tetracosane	3.82641E+08	3.229318E+08	-15.6	30
n-Hexacosane	3.864596E+08	3.239749E+08	-16.2	30
n-Octacosane	3.839113E+08	3.204809E+08	-16.5	30
n-Triacontane	3.841358E+08	3.200365E+08	-16.7	30
n-Hexatriacontane	3.752619E+08	3.170533E+08	-15.5	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309419				
Calibration Check (S309419-CCV1)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.175969E+08	-5.5	30
n-Nonadecane	3.561546E+08	3.24741E+08	-8.8	30
n-Nonane	3.732875E+08	3.306591E+08	-11.4	30
n-Decane	3.651436E+08	3.278856E+08	-10.2	30
n-Dodecane	3.48398E+08	3.219316E+08	-7.6	30
n-Tetradecane	3.588449E+08	3.233602E+08	-9.9	30
n-Hexadecane	3.756608E+08	3.254912E+08	-13.4	30
n-Octadecane	3.775606E+08	3.272792E+08	-13.3	30
n-Eicosane	3.825055E+08	3.27917E+08	-14.3	30
n-Docosane	3.815533E+08	3.25272E+08	-14.8	30
n-Tetracosane	3.82641E+08	3.229318E+08	-15.6	30
n-Hexacosane	3.864596E+08	3.239749E+08	-16.2	30
n-Octacosane	3.839113E+08	3.204809E+08	-16.5	30
n-Triacontane	3.841358E+08	3.200365E+08	-16.7	30
n-Hexatriacontane	3.752619E+08	3.170533E+08	-15.5	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309419				
Calibration Check (S309419-CCV2)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	3.83023E+08	-15.4	30
n-Nonadecane	3.561546E+08	3.388578E+08	-4.9	30
n-Nonane	3.732875E+08	3.401047E+08	-8.9	30
n-Decane	3.651436E+08	3.377886E+08	-7.5	30
n-Dodecane	3.48398E+08	3.339115E+08	-4.2	30
n-Tetradecane	3.588449E+08	3.348128E+08	-6.7	30
n-Hexadecane	3.756608E+08	3.379625E+08	-10.0	30
n-Octadecane	3.775606E+08	3.409942E+08	-9.7	30
n-Eicosane	3.825055E+08	3.421206E+08	-10.6	30
n-Docosane	3.815533E+08	3.391232E+08	-11.1	30
n-Tetracosane	3.82641E+08	3.378166E+08	-11.7	30
n-Hexacosane	3.864596E+08	3.396267E+08	-12.1	30
n-Octacosane	3.839113E+08	3.346217E+08	-12.8	30
n-Triacontane	3.841358E+08	3.33902E+08	-13.1	30
n-Hexatriacontane	3.752619E+08	3.29624E+08	-12.2	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309419				
Calibration Check (S309419-CCV3)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.515645E+08	4.1	30
n-Nonadecane	3.561546E+08	3.418841E+08	-4.0	30
n-Nonane	3.732875E+08	3.437458E+08	-7.9	30
n-Decane	3.651436E+08	3.427193E+08	-6.1	30
n-Dodecane	3.48398E+08	3.38492E+08	-2.8	30
n-Tetradecane	3.588449E+08	3.393522E+08	-5.4	30
n-Hexadecane	3.756608E+08	3.419631E+08	-9.0	30
n-Octadecane	3.775606E+08	3.446024E+08	-8.7	30
n-Eicosane	3.825055E+08	3.450559E+08	-9.8	30
n-Docosane	3.815533E+08	3.417133E+08	-10.4	30
n-Tetracosane	3.82641E+08	3.396486E+08	-11.2	30
n-Hexacosane	3.864596E+08	3.406552E+08	-11.9	30
n-Octacosane	3.839113E+08	3.366867E+08	-12.3	30
n-Triacontane	3.841358E+08	3.361275E+08	-12.5	30
n-Hexatriacontane	3.752619E+08	3.362908E+08	-10.4	30

Notes and Definitions

D	Data reported from a dilution
QM4	Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.
R01	The Reporting Limit has been raised to account for matrix interference.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin and waste automobile oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as Calculated as.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Nicole Leja

SB74515 JB

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC3 | Page: 1 of 1

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-3	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED		ADDITIONAL INFORMATION
	Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV. Store cool at 4°C / ANALYSIS CT ETPH; PCBs via Soxhelet; Total & SPLP Pb	
01	AOC-3-BOT1(8)-1	Soil	~~8/6/2013~~ 8-7-13	1422	G=Grab	1	X	
02	AOC-3-NSW1(4)-1	Soil	~~8/6/2013~~ 8-7-13	1414	G=Grab	1	X	
03	AOC-3-SSW1(4)-1	Soil	~~8/6/2013~~ 8-7-13	1420	G=Grab	1	X	
04	AOC-3-ESW1(4)-1	Soil	~~8/6/2013~~ 8-7-13	1418	G=Grab	1	X	
05	AOC-3-WSW1(4)-1	Soil	~~8/6/2013~~ 8-7-13	1413	G=Grab	1	X	
06	AOC-3-BOT2(8)-1	Soil	~~8/6/2013~~ 8-7-13	1415	G=Grab	1	X	
07	AOC-3-NSW2(4)-1	Soil	~~8/6/2013~~ 8-7-13	1410	G=Grab	1	X	
08	~~AOC-3-SSW(4)-1~~ AOC-3-SSW2(4)-1	Soil	~~8/6/2013~~ 8-7-13	1411	G=Grab	1	X	
09	AOC-3-ESW2(4)-1	Soil	~~8/6/2013~~ 8-7-13	1412	G=Grab	1	X	
10	AOC-3-WSW2(4)-1	Soil	~~8/6/2013~~ 8-7-13	1417	G=Grab	1	X	

01 02 03 IR 02

Additional Comments/Special Instructions	Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush	8-7-13	1450			8-7-13	1450		Y / N	Y / N	Y / N
Hand written sample ID = AOC-3-SSW2(4)-1					8/7/13	1410		Y / N	Y / N	Y / N
								Y / N	Y / N	Y / N
							Temp in °C	Samples on ice?	Sample intact?	Trip Blank?

Sampler's Name	Julie Williams	Mobile #	631-786-6107	
Sampler's Signature	Julie Williams	8-7-13		

Report Date:
12-Aug-13 16:44

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: Greenwich HS - Greenwich, CT
Project #: 60225155

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74619-01	MB-45 (0-0.5)-1	Soil	08-Aug-13 10:00	08-Aug-13 16:55
SB74619-02	MB-45 (4-5)-1	Soil	08-Aug-13 10:02	08-Aug-13 16:55
SB74619-03	MB-46 (0.5-1)-1	Soil	08-Aug-13 10:05	08-Aug-13 16:55
SB74619-04	MB-46 (3-4)-1	Soil	08-Aug-13 10:07	08-Aug-13 16:55

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 11 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: Greenwich HS - Greenwich, CT

Project Number: 60225155

Sampling Date(s):
8/8/2013

Laboratory Sample ID(s):
SB74619-01 through SB74619-04

RCP Methods Used:
SW846 6010C
SW846 8082A

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/12/2013

CASE NARRATIVE:

The samples were received 4.6 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Samples:

SB74619-01 *MB-45 (0-0.5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1254

SB74619-03 *MB-46 (0.5-1)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1254

SB74619-04 *MB-46 (3-4)-1*

Difference between the two GC columns is greater than 40%.

Aroclor-1254
Aroclor-1260

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	Greenwich HS - Greenwich, CT / 60225155
Work Order:	SB74619
Sample(s) received on:	8/8/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☐	☑	☐
10. Did sample container labels agree with Chain of Custody document?	☐	☑	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-45 (0-0.5)-1 SB74619-01	60225155	Soil	08-Aug-13 10:00	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.5		µg/kg dry	21.5	16.1	1	SW846 8082A	08-Aug-13	09-Aug-13	BLM	1319004	X
11104-28-2	Aroclor-1221	< 21.5		µg/kg dry	21.5	19.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.5		µg/kg dry	21.5	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.5		µg/kg dry	21.5	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.5		µg/kg dry	21.5	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 108	R01	µg/kg dry	108	89.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**21.5**		µg/kg dry	21.5	10.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.5		µg/kg dry	21.5	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.5		µg/kg dry	21.5	8.87	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**24.7**		mg/kg dry	1.59	0.693	1	SW846 6010C	09-Aug-13	12-Aug-13	ARF	1319024	X
7439-92-1	Lead	**33.9**		mg/kg dry	1.59	0.586	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319069	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-45 (4-5)-1 SB74619-02	60225155	Soil	08-Aug-13 10:02	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	16.2	1	SW846 8082A	08-Aug-13	09-Aug-13	BLM	1319004	X
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.6		µg/kg dry	21.6	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.6		µg/kg dry	21.6	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.6		µg/kg dry	21.6	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.92	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*150*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.83**		mg/kg dry	1.41	0.616	1	SW846 6010C	09-Aug-13	12-Aug-13	ARF	1319024	X
7439-92-1	Lead	**16.5**		mg/kg dry	1.41	0.521	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.3**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319069	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-46 (0.5-1)-1 SB74619-03	60225155	Soil	08-Aug-13 10:05	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.3		µg/kg dry	20.3	15.2	1	SW846 8082A	08-Aug-13	09-Aug-13	BLM	1319004	X
11104-28-2	Aroclor-1221	< 20.3		µg/kg dry	20.3	18.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.3		µg/kg dry	20.3	13.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.3		µg/kg dry	20.3	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.3		µg/kg dry	20.3	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 101	R01	µg/kg dry	101	84.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.3		µg/kg dry	20.3	12.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.3		µg/kg dry	20.3	18.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.3		µg/kg dry	20.3	8.37	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**6.79**		mg/kg dry	1.42	0.617	1	SW846 6010C	09-Aug-13	12-Aug-13	ARF	1319024	X
7439-92-1	Lead	**39.5**		mg/kg dry	1.42	0.522	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319069	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-46 (3-4)-1 SB74619-04	60225155	Soil	08-Aug-13 10:07	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.2		µg/kg dry	20.2	15.1	1	SW846 8082A	08-Aug-13	09-Aug-13	BLM	1319004	X
11104-28-2	Aroclor-1221	< 20.2		µg/kg dry	20.2	18.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.2		µg/kg dry	20.2	13.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.2		µg/kg dry	20.2	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**103**		µg/kg dry	20.2	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**352**	P	µg/kg dry	20.2	16.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**37.4**	P	µg/kg dry	20.2	12.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.2		µg/kg dry	20.2	18.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.2		µg/kg dry	20.2	8.34	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**6.07**		mg/kg dry	1.52	0.662	1	SW846 6010C	09-Aug-13	12-Aug-13	ARF	1319024	X
7439-92-1	Lead	**24.1**		mg/kg dry	1.52	0.559	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319069	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319004 - SW846 3540C										
Blank (1319004-BLK1)					Prepared: 08-Aug-13 Analyzed: 10-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*25.0*		µg/kg wet		*20.0*		*125*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
LCS (1319004-BS1)					Prepared: 08-Aug-13 Analyzed: 10-Aug-13					
Aroclor-1016	**209**		µg/kg wet	20.0	250		84	40-140		
Aroclor-1016 [2C]	**213**		µg/kg wet	20.0	250		85	40-140		
Aroclor-1260	**206**		µg/kg wet	20.0	250		82	40-140		
Aroclor-1260 [2C]	**235**		µg/kg wet	20.0	250		94	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*27.0*		µg/kg wet		*20.0*		*135*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*25.0*		µg/kg wet		*20.0*		*125*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*30.0*		µg/kg wet		*20.0*		*150*	*30-150*		
LCS Dup (1319004-BSD1)					Prepared: 08-Aug-13 Analyzed: 10-Aug-13					
Aroclor-1016	**210**		µg/kg wet	20.0	250		84	40-140	0.5	30
Aroclor-1016 [2C]	**190**		µg/kg wet	20.0	250		76	40-140	11	30
Aroclor-1260	**211**		µg/kg wet	20.0	250		84	40-140	2	30
Aroclor-1260 [2C]	**236**		µg/kg wet	20.0	250		94	40-140	0.4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*25.0*		µg/kg wet		*20.0*		*125*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*27.0*		µg/kg wet		*20.0*		*135*	*30-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319024 - SW846 3050B										
Blank (1319024-BLK1)					Prepared: 09-Aug-13 Analyzed: 12-Aug-13					
Arsenic	< 1.50		mg/kg wet	1.50						
Lead	< 1.50		mg/kg wet	1.50						
Duplicate (1319024-DUP1)			**Source: SB74619-04**		Prepared: 09-Aug-13 Analyzed: 12-Aug-13					
Arsenic	**6.20**		mg/kg dry	1.42		6.07			2	20
Lead	**25.0**		mg/kg dry	1.42		24.1			3	20
Matrix Spike (1319024-MS1)			**Source: SB74619-04**		Prepared: 09-Aug-13 Analyzed: 12-Aug-13					
Arsenic	**117**		mg/kg dry	1.51	126	6.07	88	75-125		
Lead	**124**		mg/kg dry	1.51	126	24.1	79	75-125		
Matrix Spike Dup (1319024-MSD1)			**Source: SB74619-04**		Prepared: 09-Aug-13 Analyzed: 12-Aug-13					
Arsenic	**106**		mg/kg dry	1.41	118	6.07	85	75-125	9	20
Lead	**114**		mg/kg dry	1.41	118	24.1	76	75-125	8	20
Post Spike (1319024-PS1)			**Source: SB74619-04**		Prepared: 09-Aug-13 Analyzed: 12-Aug-13					
Arsenic	**115**		mg/kg dry	1.52	126	6.07	86	80-120		
Lead	**124**	QM9	mg/kg dry	1.52	126	24.1	79	80-120		
Reference (1319024-SRM1)					Prepared: 09-Aug-13 Analyzed: 12-Aug-13					
Arsenic	**84.4**		mg/kg wet	1.50	91.3		92	82.97-117.58		
Lead	**59.8**		mg/kg wet	1.50	68.2		88	83.82-116.91		
Reference (1319024-SRM2)					Prepared: 09-Aug-13 Analyzed: 12-Aug-13					
Lead	**60.2**		mg/kg wet	1.50	68.6		88	83.82-116.91		
Arsenic	**85.2**		mg/kg wet	1.50	91.8		93	82.97-117.58		

Notes and Definitions

P	Difference between the two GC columns is greater than 40%.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
R01	The Reporting Limit has been raised to account for matrix interference.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
June O'Connor
Kimberly Wisk

SB74619 RT1

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr
Rocky Hill CT

Telephone #: 860 263 5800
Project Mgr. Malcolm Beeler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Greenwich High School
Location: Greenwich State: CT
Sampler(s): M. Read & J. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11=_____ 12=_____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Containers:

Analyses:

MA DEP MCP CAM Report: Yes ☐ No ☒
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		PCB - Soxhlet	As, Pb
SB74619-01	MB-45 (0-0.5)	8/8/13	1000	G	SO		1				X	X
-02	MB-45 (4-5)	8/8/13	1002	G	SO		1				X	X
-03	MB-46 (0.5-1)	8/8/13	1005	G	SO		1				X	X
-04	MB-46 (3-4)	8/8/13	1007	G	SO		1				+	X

Relinquished by:	Received by:	Date:	Time:	Temp°C
Julie Williams JET	JET JET	8/8/13	2:45	
		8/8/13	Less	

☒ EDD Format EQUIS
☒ E-mail to malcolm.beeler@aecom.com
julie.williams2@aecom.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

MCP/CAM/IRW1

11 Almgren Drive • Agawam, MA 01001 • 413-789-9018 • FAX 413-789-4076 • www.spectrum-analytical.com

SB74619-RH1

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 48 h per client request.
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr
Rocky Hill CT

Telephone #: 800 203 5800
Project Mgr. Malcolm Beeler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Greenwich High School
Location: Greenwich State: CT
Sampler(s): M. Reed & J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: RCB - Semivol	Pb	QA/QC Reporting Level
SB74619-01	MB-15 (0-0.5)-1	8/8/13	1000	G	SO		1			X	X	RH 8/9 per client request.
-02	MB-15 (4-5)-1	8/8/13	1002	G	SO		1			X	X	
-03	MB-16 (0.5-1)-1	8/8/13	1005	G	SO		1			X	X	
-04	MB-16 (3-9)-1	8/8/13	1007	G	SO		1			+	X	

MA DEP MCP CAM Report: Yes ☐ No ☒
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
Julie Williams JET	JET	8/8/13	2:45	
		8/8/13	Close	

☒ EDD Format EQUIS
☒ E-mail to malcolm.beeler@aecom.com
julie.williams2@aecom.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

MCP/CT/RCP

Report Date:
12-Aug-13 16:44

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: Greenwich HS - Greenwich, CT
Project #: 60225155

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74619-01	MB-45 (0-0.5)-1	Soil	08-Aug-13 10:00	08-Aug-13 16:55
SB74619-02	MB-45 (4-5)-1	Soil	08-Aug-13 10:02	08-Aug-13 16:55
SB74619-03	MB-46 (0.5-1)-1	Soil	08-Aug-13 10:05	08-Aug-13 16:55
SB74619-04	MB-46 (3-4)-1	Soil	08-Aug-13 10:07	08-Aug-13 16:55

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 11 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: Greenwich HS - Greenwich, CT

Project Number: 60225155

Sampling Date(s):
8/8/2013

Laboratory Sample ID(s):
SB74619-01 through SB74619-04

RCP Methods Used:
SW846 6010C
SW846 8082A

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/12/2013

CASE NARRATIVE:

The samples were received 4.6 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Samples:

SB74619-01 *MB-45 (0-0.5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1254

SB74619-03 *MB-46 (0.5-1)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1254

SB74619-04 *MB-46 (3-4)-1*

Difference between the two GC columns is greater than 40%.

Aroclor-1254
Aroclor-1260

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	Greenwich HS - Greenwich, CT / 60225155
Work Order:	SB74619
Sample(s) received on:	8/8/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☐	☑	☐
10. Did sample container labels agree with Chain of Custody document?	☐	☑	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-45 (0-0.5)-1 SB74619-01	60225155	Soil	08-Aug-13 10:00	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.5		µg/kg dry	21.5	16.1	1	SW846 8082A	08-Aug-13	09-Aug-13	BLM	1319004	X
11104-28-2	Aroclor-1221	< 21.5		µg/kg dry	21.5	19.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.5		µg/kg dry	21.5	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.5		µg/kg dry	21.5	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.5		µg/kg dry	21.5	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 108	R01	µg/kg dry	108	89.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**21.5**		µg/kg dry	21.5	10.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.5		µg/kg dry	21.5	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.5		µg/kg dry	21.5	8.87	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**24.7**		mg/kg dry	1.59	0.693	1	SW846 6010C	09-Aug-13	12-Aug-13	ARF	1319024	X
7439-92-1	Lead	**33.9**		mg/kg dry	1.59	0.586	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319069	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-45 (4-5)-1 SB74619-02	60225155	Soil	08-Aug-13 10:02	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	16.2	1	SW846 8082A	08-Aug-13	09-Aug-13	BLM	1319004	X
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.6		µg/kg dry	21.6	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.6		µg/kg dry	21.6	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.6		µg/kg dry	21.6	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.92	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*150*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.83**		mg/kg dry	1.41	0.616	1	SW846 6010C	09-Aug-13	12-Aug-13	ARF	1319024	X
7439-92-1	Lead	**16.5**		mg/kg dry	1.41	0.521	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.3**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319069	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-46 (0.5-1)-1 SB74619-03	60225155	Soil	08-Aug-13 10:05	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.3		µg/kg dry	20.3	15.2	1	SW846 8082A	08-Aug-13	09-Aug-13	BLM	1319004	X
11104-28-2	Aroclor-1221	< 20.3		µg/kg dry	20.3	18.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.3		µg/kg dry	20.3	13.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.3		µg/kg dry	20.3	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.3		µg/kg dry	20.3	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 101	R01	µg/kg dry	101	84.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.3		µg/kg dry	20.3	12.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.3		µg/kg dry	20.3	18.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.3		µg/kg dry	20.3	8.37	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**6.79**		mg/kg dry	1.42	0.617	1	SW846 6010C	09-Aug-13	12-Aug-13	ARF	1319024	X
7439-92-1	Lead	**39.5**		mg/kg dry	1.42	0.522	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319069	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-46 (3-4)-1 SB74619-04	60225155	Soil	08-Aug-13 10:07	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.2		µg/kg dry	20.2	15.1	1	SW846 8082A	08-Aug-13	09-Aug-13	BLM	1319004	X
11104-28-2	Aroclor-1221	< 20.2		µg/kg dry	20.2	18.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.2		µg/kg dry	20.2	13.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.2		µg/kg dry	20.2	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**103**		µg/kg dry	20.2	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**352**	P	µg/kg dry	20.2	16.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**37.4**	P	µg/kg dry	20.2	12.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.2		µg/kg dry	20.2	18.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.2		µg/kg dry	20.2	8.34	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**6.07**		mg/kg dry	1.52	0.662	1	SW846 6010C	09-Aug-13	12-Aug-13	ARF	1319024	X
7439-92-1	Lead	**24.1**		mg/kg dry	1.52	0.559	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319069	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319004 - SW846 3540C										
Blank (1319004-BLK1)					Prepared: 08-Aug-13 Analyzed: 10-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*25.0*		µg/kg wet		*20.0*		*125*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
LCS (1319004-BS1)					Prepared: 08-Aug-13 Analyzed: 10-Aug-13					
Aroclor-1016	**209**		µg/kg wet	20.0	250		84	40-140		
Aroclor-1016 [2C]	**213**		µg/kg wet	20.0	250		85	40-140		
Aroclor-1260	**206**		µg/kg wet	20.0	250		82	40-140		
Aroclor-1260 [2C]	**235**		µg/kg wet	20.0	250		94	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*27.0*		µg/kg wet		*20.0*		*135*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*25.0*		µg/kg wet		*20.0*		*125*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*30.0*		µg/kg wet		*20.0*		*150*	*30-150*		
LCS Dup (1319004-BSD1)					Prepared: 08-Aug-13 Analyzed: 10-Aug-13					
Aroclor-1016	**210**		µg/kg wet	20.0	250		84	40-140	0.5	30
Aroclor-1016 [2C]	**190**		µg/kg wet	20.0	250		76	40-140	11	30
Aroclor-1260	**211**		µg/kg wet	20.0	250		84	40-140	2	30
Aroclor-1260 [2C]	**236**		µg/kg wet	20.0	250		94	40-140	0.4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*25.0*		µg/kg wet		*20.0*		*125*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*27.0*		µg/kg wet		*20.0*		*135*	*30-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319024 - SW846 3050B										
Blank (1319024-BLK1)					Prepared: 09-Aug-13 Analyzed: 12-Aug-13					
Arsenic	< 1.50		mg/kg wet	1.50						
Lead	< 1.50		mg/kg wet	1.50						
Duplicate (1319024-DUP1)			**Source: SB74619-04**		Prepared: 09-Aug-13 Analyzed: 12-Aug-13					
Arsenic	**6.20**		mg/kg dry	1.42		6.07			2	20
Lead	**25.0**		mg/kg dry	1.42		24.1			3	20
Matrix Spike (1319024-MS1)			**Source: SB74619-04**		Prepared: 09-Aug-13 Analyzed: 12-Aug-13					
Arsenic	**117**		mg/kg dry	1.51	126	6.07	88	75-125		
Lead	**124**		mg/kg dry	1.51	126	24.1	79	75-125		
Matrix Spike Dup (1319024-MSD1)			**Source: SB74619-04**		Prepared: 09-Aug-13 Analyzed: 12-Aug-13					
Arsenic	**106**		mg/kg dry	1.41	118	6.07	85	75-125	9	20
Lead	**114**		mg/kg dry	1.41	118	24.1	76	75-125	8	20
Post Spike (1319024-PS1)			**Source: SB74619-04**		Prepared: 09-Aug-13 Analyzed: 12-Aug-13					
Arsenic	**115**		mg/kg dry	1.52	126	6.07	86	80-120		
Lead	**124**	QM9	mg/kg dry	1.52	126	24.1	79	80-120		
Reference (1319024-SRM1)					Prepared: 09-Aug-13 Analyzed: 12-Aug-13					
Arsenic	**84.4**		mg/kg wet	1.50	91.3		92	82.97-117.58		
Lead	**59.8**		mg/kg wet	1.50	68.2		88	83.82-116.91		
Reference (1319024-SRM2)					Prepared: 09-Aug-13 Analyzed: 12-Aug-13					
Lead	**60.2**		mg/kg wet	1.50	68.6		88	83.82-116.91		
Arsenic	**85.2**		mg/kg wet	1.50	91.8		93	82.97-117.58		

Notes and Definitions

P	Difference between the two GC columns is greater than 40%.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
R01	The Reporting Limit has been raised to account for matrix interference.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
June O'Connor
Kimberly Wisk

SB74619 RT1

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr
Rocky Hill CT

Telephone #: 860 263 5800
Project Mgr. Malcolm Beeler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Greenwich High School
Location: Greenwich State: CT
Sampler(s): M. Read & J. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11=_____ 12=_____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Containers:

Analyses:

MA DEP MCP CAM Report: Yes ☐ No ☒
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		PCB - Soxhlet	As, Pb
SB74619-01	MB-45 (0-0.5)	8/8/13	1000	G	SO		1				X	X
-02	MB-45 (4-5)	8/8/13	1002	G	SO		1				X	X
-03	MB-46 (0.5-1)	8/8/13	1005	G	SO		1				X	X
-04	MB-46 (3-4)	8/8/13	1007	G	SO		1				+	X

Relinquished by:	Received by:	Date:	Time:	Temp°C
Julie Williams JET	JET JET	8/8/13	2:45	
		8/8/13	Less	

☒ EDD Format EQUIS
☒ E-mail to malcolm.beeler@aecom.com
julie.williams2@aecom.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

MCP/CAM/IRW1

11 Almgren Drive • Agawam, MA 01001 • 413-789-9018 • FAX 413-789-4076 • www.spectrum-analytical.com

SB74619-RH1

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 48 h per client request.
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr
Rocky Hill CT

Telephone #: 800 203 5800
Project Mgr. Malcolm Beeler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Greenwich High School
Location: Greenwich State: CT
Sampler(s): M. Reed & J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: RCB - Semivol	Pb	QA/QC Reporting Level
SB74619-01	MB-15 (0-0.5)-1	8/8/13	1000	G	SO		1			X	X	RH 8/9 per client request.
-02	MB-15 (4-5)-1	8/8/13	1002	G	SO		1			X	X	
-03	MB-16 (0.5-1)-1	8/8/13	1005	G	SO		1			X	X	
-04	MB-16 (3-9)-1	8/8/13	1007	G	SO		1			+	X	

MA DEP MCP CAM Report: Yes ☐ No ☒
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
Julie Williams JET	JET	8/8/13	2:45	
		8/8/13	Close	

☒ EDD Format EQUIS
☒ E-mail to malcolm.beeler@aecom.com
julie.williams2@aecom.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

MCP/CT/RCP

Report Date:
15-Aug-13 16:59

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: Greenwich HS - Greenwich, CT
Project #: 60225155

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74662-01	MB-19 (0.5-1)-1	Soil	08-Aug-13 09:30	08-Aug-13 17:05
SB74662-02	MB-19 (4-5)-1	Soil	08-Aug-13 09:32	08-Aug-13 17:05
SB74662-03	MB-18 (0.5-1)-1	Soil	08-Aug-13 09:52	08-Aug-13 17:05
SB74662-04	MB-18 (4-5)-1	Soil	08-Aug-13 09:58	08-Aug-13 17:05
SB74662-05	MB-17 (0.5-1)-1	Soil	08-Aug-13 10:15	08-Aug-13 17:05
SB74662-06	MB-17 (4-5)-1	Soil	08-Aug-13 10:17	08-Aug-13 17:05
SB74662-07	MB-21 (0.5-1)-1	Soil	08-Aug-13 09:20	08-Aug-13 17:05
SB74662-08	MB-21 (3-4)-1	Soil	08-Aug-13 09:22	08-Aug-13 17:05
SB74662-09	MB-22 (0-0.5)-1	Soil	08-Aug-13 09:10	08-Aug-13 17:05
SB74662-10	MB-22 (4-5)-1	Soil	08-Aug-13 09:12	08-Aug-13 17:05
SB74662-11	MB-20 (0.5-1)-1	Soil	08-Aug-13 09:40	08-Aug-13 17:05
SB74662-12	MB-20 (3-4)-1	Soil	08-Aug-13 09:42	08-Aug-13 17:05
SB74662-13	MB-23 (0.5-1)-1	Soil	08-Aug-13 09:06	08-Aug-13 17:05
SB74662-14	MB-23 (3-4)-1	Soil	08-Aug-13 09:07	08-Aug-13 17:05
SB74662-15	MB-16 (0.5-1)-1	Soil	08-Aug-13 10:30	08-Aug-13 17:05
SB74662-16	MB-16 (2-3)-1	Soil	08-Aug-13 10:32	08-Aug-13 17:05
SB74662-17	MB-44 (0.5-1)-1	Soil	08-Aug-13 10:40	08-Aug-13 17:05
SB74662-18	MB-44 (3-4)-1	Soil	08-Aug-13 10:42	08-Aug-13 17:05
SB74662-19	MB-44 (4-5)-1	Soil	08-Aug-13 10:44	08-Aug-13 17:05
SB74662-20	MB-44 (8-10)-1	Soil	08-Aug-13 10:46	08-Aug-13 17:05
SB74662-21	MB-43 (0-0.5)-1	Soil	08-Aug-13 10:50	08-Aug-13 17:05
SB74662-22	MB-43 (1-2)-1	Soil	08-Aug-13 10:52	08-Aug-13 17:05
SB74662-23	MB-43 (3-4)-1	Soil	08-Aug-13 10:54	08-Aug-13 17:05
SB74662-24	MB-42 (0.5-1)-1	Soil	08-Aug-13 10:56	08-Aug-13 17:05
SB74662-25	MB-42 (2-3)-1	Soil	08-Aug-13 10:58	08-Aug-13 17:05
SB74662-26	MB-42 (4-5)-1	Soil	08-Aug-13 11:00	08-Aug-13 17:05
SB74662-27	MB-41 (0.5-1)-1	Soil	08-Aug-13 11:02	08-Aug-13 17:05
SB74662-28	MB-41 (1-2)-1	Soil	08-Aug-13 11:04	08-Aug-13 17:05
SB74662-29	MB-41 (2-3)-1	Soil	08-Aug-13 11:06	08-Aug-13 17:05
SB74662-30	MB-40 (0-0.5)-1	Soil	08-Aug-13 11:08	08-Aug-13 17:05
SB74662-31	MB-40 (2-3)-1	Soil	08-Aug-13 11:10	08-Aug-13 17:05
SB74662-32	MB-40 (4-5)-1	Soil	08-Aug-13 11:12	08-Aug-13 17:05
SB74662-33	MB-40 (5-7)-1	Soil	08-Aug-13 11:14	08-Aug-13 17:05
SB74662-34	MB-39 (0.5-1)-1	Soil	08-Aug-13 11:15	08-Aug-13 17:05
SB74662-35	MB-39 (1-2)-1	Soil	08-Aug-13 11:17	08-Aug-13 17:05
SB74662-36	MB-39 (3-4)-1	Soil	08-Aug-13 11:19	08-Aug-13 17:05
SB74662-37	MB-38 (0-0.5)-1	Soil	08-Aug-13 11:20	08-Aug-13 17:05

SB74662-38	MB-38 (2-3)-1	Soil	08-Aug-13 11:22	08-Aug-13 17:05
SB74662-39	MB-38 (4-5)-1	Soil	08-Aug-13 11:24	08-Aug-13 17:05
SB74662-40	MB-37 (0.5-1)-1	Soil	08-Aug-13 11:26	08-Aug-13 17:05
SB74662-41	MB-37 (2-3)-1	Soil	08-Aug-13 11:28	08-Aug-13 17:05
SB74662-42	MB-37 (4-5)-1	Soil	08-Aug-13 11:30	08-Aug-13 17:05
SB74662-43	MB-36 (0-0.5)-1	Soil	08-Aug-13 11:40	08-Aug-13 17:05
SB74662-44	MB-36 (1-2)-1	Soil	08-Aug-13 11:42	08-Aug-13 17:05
SB74662-45	MB-36 (3-4)-1	Soil	08-Aug-13 11:45	08-Aug-13 17:05
SB74662-46	MB-36 (5-7)-1	Soil	08-Aug-13 11:47	08-Aug-13 17:05
SB74662-47	MB-34 (0.5-1)-1	Soil	08-Aug-13 11:50	08-Aug-13 17:05
SB74662-48	MB-34 (2-3)-1	Soil	08-Aug-13 11:52	08-Aug-13 17:05
SB74662-49	MB-34 (4-5)-1	Soil	08-Aug-13 11:54	08-Aug-13 17:05
SB74662-50	MB-34 (8-9)-1	Soil	08-Aug-13 11:56	08-Aug-13 17:05
SB74662-51	MB-25 (0.5-1)-1	Soil	08-Aug-13 12:30	08-Aug-13 17:05
SB74662-52	MB-25 (1-2)-1	Soil	08-Aug-13 12:32	08-Aug-13 17:05
SB74662-53	MB-25 (4-5)-1	Soil	08-Aug-13 12:34	08-Aug-13 17:05
SB74662-54	MB-26 (0.5-1)-1	Soil	08-Aug-13 13:40	08-Aug-13 17:05
SB74662-55	MB-26 (2-3)-1	Soil	08-Aug-13 13:42	08-Aug-13 17:05
SB74662-56	MB-26 (4-5)-1	Soil	08-Aug-13 13:44	08-Aug-13 17:05
SB74662-57	MB-27 (0-0.5)-1	Soil	08-Aug-13 13:50	08-Aug-13 17:05
SB74662-58	MB-27 (1-2)-1	Soil	08-Aug-13 13:52	08-Aug-13 17:05
SB74662-59	MB-27 (3-4)-1	Soil	08-Aug-13 13:54	08-Aug-13 17:05
SB74662-60	MB-28 (0.5-1)-1	Soil	08-Aug-13 13:55	08-Aug-13 17:05
SB74662-61	MB-28 (2-3)-1	Soil	08-Aug-13 13:57	08-Aug-13 17:05
SB74662-62	MB-28 (4-5)-1	Soil	08-Aug-13 13:59	08-Aug-13 17:05
SB74662-63	MB-29 (0-0.5)-1	Soil	08-Aug-13 14:02	08-Aug-13 17:05
SB74662-64	MB-29 (1-2)-1	Soil	08-Aug-13 14:04	08-Aug-13 17:05
SB74662-65	MB-29 (3-4)-1	Soil	08-Aug-13 14:08	08-Aug-13 17:05
SB74662-66	MB-30 (0.5-1)-1	Soil	08-Aug-13 14:10	08-Aug-13 17:05
SB74662-67	MB-30 (2-3)	Soil	08-Aug-13 14:12	08-Aug-13 17:05
SB74662-68	MB-30 (3-4)	Soil	08-Aug-13 14:14	08-Aug-13 17:05
SB74662-69	MB-32 (0-0.5)-1	Soil	08-Aug-13 14:20	08-Aug-13 17:05
SB74662-70	MB-32 (2-3)-1	Soil	08-Aug-13 14:22	08-Aug-13 17:05
SB74662-71	MB-32 (4-5)	Soil	08-Aug-13 14:24	08-Aug-13 17:05
SB74662-72	MB-31 (0-0.5)-1	Soil	08-Aug-13 14:36	08-Aug-13 17:05
SB74662-73	MB-31 (1-2)-1	Soil	08-Aug-13 14:37	08-Aug-13 17:05
SB74662-74	MB-31 (3-4)-1	Soil	08-Aug-13 14:38	08-Aug-13 17:05
SB74662-75	MB-33 (0.5-1)-1	Soil	08-Aug-13 14:30	08-Aug-13 17:05
SB74662-76	MB-33 (2-3)-1	Soil	08-Aug-13 14:32	08-Aug-13 17:05
SB74662-77	MB-33 (4-5)-1	Soil	08-Aug-13 14:34	08-Aug-13 17:05
SB74662-78	MB-15 (0.5-1)-1	Soil	08-Aug-13 14:40	08-Aug-13 17:05
SB74662-79	MB-15 (4-5)-1	Soil	08-Aug-13 14:42	08-Aug-13 17:05

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 127 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: Greenwich HS - Greenwich, CT

Project Number: 60225155

Sampling Date(s):
8/8/2013

Laboratory Sample ID(s):
SB74662-01 through SB74662-79

RCP Methods Used:

CT ETPH

SW846 6010C

SW846 8082A

SW846 8270D

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/15/2013

CASE NARRATIVE:

The samples were received 4.6 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 6010C

Laboratory Control Samples:

1319236 SRM/SRMD

Lead percent recoveries (83/87) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MB-16 (0.5-1)-1
MB-16 (2-3)-1
MB-17 (0.5-1)-1
MB-17 (4-5)-1
MB-18 (0.5-1)-1
MB-18 (4-5)-1
MB-19 (0.5-1)-1
MB-19 (4-5)-1
MB-20 (0.5-1)-1
MB-20 (3-4)-1
MB-21 (0.5-1)-1
MB-21 (3-4)-1
MB-22 (0-0.5)-1
MB-22 (4-5)-1
MB-23 (0.5-1)-1
MB-23 (3-4)-1
MB-43 (0-0.5)-1
MB-44 (0.5-1)-1
MB-44 (3-4)-1
MB-44 (4-5)-1

SW846 6010C

Spikes:

1319237-MSD1 *Source: SB74662-24*

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

Lead

1319238-MS1 *Source: SB74662-54*

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

Lead

1319239-MS1 *Source: SB74662-75*

The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.

Lead

SW846 8082A

Samples:

SB74662-12 *MB-20 (3-4)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74662-26 *MB-42 (4-5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74662-32 *MB-40 (4-5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74662-36 *MB-39 (3-4)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74662-39 *MB-38 (4-5)-1*

SW846 8082A

Samples:

SB74662-39 *MB-38 (4-5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74662-41 *MB-37 (2-3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74662-44 *MB-36 (1-2)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74662-55 *MB-26 (2-3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74662-56 *MB-26 (4-5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

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

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB74662-61 *MB-28 (2-3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74662-64 *MB-29 (1-2)-1*

SW846 8082A

Samples:

SB74662-64 *MB-29 (1-2)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

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

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB74662-70 *MB-32 (2-3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254

SB74662-71 *MB-32 (4-5)*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254

SB74662-77 *MB-33 (4-5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254

SB74662-79 *MB-15 (4-5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	Greenwich HS - Greenwich, CT / 60225155
Work Order:	SB74662
Sample(s) received on:	8/8/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-19 (0.5-1)-1 SB74662-01	60225155	Soil	08-Aug-13 09:30	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.6	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319073	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.8		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.8		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.60	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.73**		mg/kg dry	1.48	0.644	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**9.33**		mg/kg dry	1.48	0.544	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**95.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-19 (4-5)-1 SB74662-02	60225155	Soil	08-Aug-13 09:32	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.1		µg/kg dry	20.1	15.0	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319073	X
11104-28-2	Aroclor-1221	< 20.1		µg/kg dry	20.1	18.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.1		µg/kg dry	20.1	12.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.1		µg/kg dry	20.1	12.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**444**		µg/kg dry	20.1	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.1		µg/kg dry	20.1	16.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.1		µg/kg dry	20.1	12.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.1		µg/kg dry	20.1	18.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.1		µg/kg dry	20.1	8.29	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.47**		mg/kg dry	1.52	0.662	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**25.1**		mg/kg dry	1.52	0.559	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-18 (0.5-1)-1 SB74662-03	60225155	Soil	08-Aug-13 09:52	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.2		µg/kg dry	20.2	15.1	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319073	X
11104-28-2	Aroclor-1221	< 20.2		µg/kg dry	20.2	18.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.2		µg/kg dry	20.2	13.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.2		µg/kg dry	20.2	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**49.5**		µg/kg dry	20.2	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.2		µg/kg dry	20.2	16.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.2		µg/kg dry	20.2	12.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.2		µg/kg dry	20.2	18.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.2		µg/kg dry	20.2	8.34	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.90**		mg/kg dry	1.42	0.621	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**31.7**		mg/kg dry	1.42	0.525	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.3**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-18 (4-5)-1 SB74662-04	60225155	Soil	08-Aug-13 09:58	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.5		µg/kg dry	22.5	16.8	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319073	X
11104-28-2	Aroclor-1221	< 22.5		µg/kg dry	22.5	20.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.5		µg/kg dry	22.5	14.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.5		µg/kg dry	22.5	13.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**3,030**		µg/kg dry	22.5	11.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.5		µg/kg dry	22.5	18.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**68.6**		µg/kg dry	22.5	11.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.5		µg/kg dry	22.5	20.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.5		µg/kg dry	22.5	9.27	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**6.88**		mg/kg dry	1.60	0.696	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**389**		mg/kg dry	1.60	0.589	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**85.4**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-17 (0.5-1)-1 SB74662-05	60225155	Soil	08-Aug-13 10:15	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	16.2	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319073	X
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**106**		µg/kg dry	21.6	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.6		µg/kg dry	21.6	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.6		µg/kg dry	21.6	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.93	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.53**		mg/kg dry	1.45	0.634	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**28.2**		mg/kg dry	1.45	0.536	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.3**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-17 (4-5)-1 SB74662-06	60225155	Soil	08-Aug-13 10:17	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 23.2		µg/kg dry	23.2	17.3	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319073	X
11104-28-2	Aroclor-1221	< 23.2		µg/kg dry	23.2	20.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.2		µg/kg dry	23.2	14.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.2		µg/kg dry	23.2	14.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,470**		µg/kg dry	23.2	12.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.2		µg/kg dry	23.2	19.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**70.7**		µg/kg dry	23.2	11.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.2		µg/kg dry	23.2	21.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.2		µg/kg dry	23.2	9.57	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**8.39**		mg/kg dry	1.71	0.747	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**147**		mg/kg dry	1.71	0.632	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**85.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-21 (0.5-1)-1 SB74662-07	60225155	Soil	08-Aug-13 09:20	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.3		µg/kg dry	20.3	15.2	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319073	X
11104-28-2	Aroclor-1221	< 20.3		µg/kg dry	20.3	18.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.3		µg/kg dry	20.3	13.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.3		µg/kg dry	20.3	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**26.4**		µg/kg dry	20.3	8.92	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.3		µg/kg dry	20.3	16.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.3		µg/kg dry	20.3	12.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.3		µg/kg dry	20.3	18.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.3		µg/kg dry	20.3	8.38	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.09**		mg/kg dry	1.48	0.646	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**5.60**		mg/kg dry	1.48	0.546	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-21 (3-4)-1 SB74662-08	60225155	Soil	08-Aug-13 09:22	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.6		µg/kg dry	22.6	16.8	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 22.6		µg/kg dry	22.6	20.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.6		µg/kg dry	22.6	14.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.6		µg/kg dry	22.6	13.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**4,330**		µg/kg dry	22.6	11.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.6		µg/kg dry	22.6	18.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**139**		µg/kg dry	22.6	14.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.6		µg/kg dry	22.6	21.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.6		µg/kg dry	22.6	9.30	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.10**		mg/kg dry	1.65	0.721	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**61.9**		mg/kg dry	1.65	0.610	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**88.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-22 (0-0.5)-1 SB74662-09	60225155	Soil	08-Aug-13 09:10	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.1		µg/kg dry	22.1	16.5	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 22.1		µg/kg dry	22.1	19.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.1		µg/kg dry	22.1	14.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.1		µg/kg dry	22.1	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**64.0**		µg/kg dry	22.1	11.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.1		µg/kg dry	22.1	18.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.1		µg/kg dry	22.1	13.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.1		µg/kg dry	22.1	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.1		µg/kg dry	22.1	9.10	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.13**		mg/kg dry	1.64	0.716	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**6.66**		mg/kg dry	1.64	0.606	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-22 (4-5)-1 SB74662-10	60225155	Soil	08-Aug-13 09:12	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 180		µg/kg dry	180	45.7	1	SW846 8270D	13-Aug-13	14-Aug-13	JG	1319408	X
208-96-8	Acenaphthylene	< 180		µg/kg dry	180	49.8	1	"	"	"	"	"	X
120-12-7	Anthracene	< 180		µg/kg dry	180	45.8	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 180		µg/kg dry	180	48.1	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 180		µg/kg dry	180	48.9	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 180		µg/kg dry	180	39.0	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 180		µg/kg dry	180	50.0	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 180		µg/kg dry	180	63.6	1	"	"	"	"	"	X
218-01-9	Chrysene	< 180		µg/kg dry	180	50.7	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 180		µg/kg dry	180	46.4	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 180		µg/kg dry	180	50.2	1	"	"	"	"	"	X
86-73-7	Fluorene	< 180		µg/kg dry	180	49.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 180		µg/kg dry	180	49.8	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 180		µg/kg dry	180	53.0	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 180		µg/kg dry	180	51.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 180		µg/kg dry	180	50.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 180		µg/kg dry	180	47.9	1	"	"	"	"	"	X
129-00-0	Pyrene	< 180		µg/kg dry	180	43.4	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*78*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*97*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.8		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.8		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.58	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.3		mg/kg dry	28.3	1.4	1	CT ETPH	13-Aug-13	14-Aug-13	SEP	1319406	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-22 (4-5)-1 SB74662-10	60225155	Soil	08-Aug-13 09:12	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 28.3		mg/kg dry	28.3	2.8	1	CT ETPH	13-Aug-13	14-Aug-13	SEP	1319406	
68476-31-3	Fuel Oil #4	< 28.3		mg/kg dry	28.3	2.8	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.3		mg/kg dry	28.3	7.1	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.3		mg/kg dry	28.3	2.8	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.3		mg/kg dry	28.3	7.1	1	"	"	"	"	"	
	Unidentified	**35.4**		mg/kg dry	28.3	7.1	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	28.3	2.8	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**35.4**		mg/kg dry	28.3	2.8	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**35.4**		mg/kg dry	28.3	2.6	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*79*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.46**		mg/kg dry	1.38	0.601	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**7.15**		mg/kg dry	1.38	0.508	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.5**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-20 (0.5-1)-1 SB74662-11	60225155	Soil	08-Aug-13 09:40	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.4		µg/kg dry	19.4	14.5	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 19.4		µg/kg dry	19.4	17.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.4		µg/kg dry	19.4	12.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.4		µg/kg dry	19.4	11.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.4		µg/kg dry	19.4	10.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.4		µg/kg dry	19.4	16.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.4		µg/kg dry	19.4	12.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.4		µg/kg dry	19.4	18.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.4		µg/kg dry	19.4	8.00	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.68**		mg/kg dry	1.43	0.623	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**4.33**		mg/kg dry	1.43	0.527	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**96.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-20 (3-4)-1 SB74662-12	60225155	Soil	08-Aug-13 09:42	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 186		µg/kg dry	186	47.2	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 186		µg/kg dry	186	51.4	1	"	"	"	"	"	X
120-12-7	Anthracene	< 186		µg/kg dry	186	47.3	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 186		µg/kg dry	186	49.7	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 186		µg/kg dry	186	50.5	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 186		µg/kg dry	186	40.3	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 186		µg/kg dry	186	51.6	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 186		µg/kg dry	186	65.7	1	"	"	"	"	"	X
218-01-9	Chrysene	< 186		µg/kg dry	186	52.4	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 186		µg/kg dry	186	47.9	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 186		µg/kg dry	186	51.9	1	"	"	"	"	"	X
86-73-7	Fluorene	< 186		µg/kg dry	186	51.6	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 186		µg/kg dry	186	51.4	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 186		µg/kg dry	186	54.8	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 186		µg/kg dry	186	53.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 186		µg/kg dry	186	51.8	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 186		µg/kg dry	186	49.5	1	"	"	"	"	"	X
129-00-0	Pyrene	< 186		µg/kg dry	186	44.8	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*81*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*96*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 211	R01	µg/kg dry	211	158	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 211	R01	µg/kg dry	211	190	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 211	R01	µg/kg dry	211	136	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 211	R01	µg/kg dry	211	127	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 211	R01	µg/kg dry	211	110	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.1		µg/kg dry	21.1	17.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.1		µg/kg dry	21.1	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.1		µg/kg dry	21.1	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.1		µg/kg dry	21.1	8.71	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.9		mg/kg dry	28.9	1.4	1	CT ETPH	12-Aug-13	12-Aug-13	SEP	1319147	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-20 (3-4)-1 SB74662-12	60225155	Soil	08-Aug-13 09:42	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 28.9		mg/kg dry	28.9	2.9	1	CT ETPH	12-Aug-13	12-Aug-13	SEP	1319147	
68476-31-3	Fuel Oil #4	< 28.9		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.9		mg/kg dry	28.9	7.2	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.9		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.9		mg/kg dry	28.9	7.2	1	"	"	"	"	"	
	Unidentified	< 28.9		mg/kg dry	28.9	7.2	1	"	"	"	"	"	
	Other Oil	< 28.9		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 28.9		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 28.9		mg/kg dry	28.9	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*78*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.58**		mg/kg dry	1.62	0.705	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**25.2**		mg/kg dry	1.62	0.596	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-23 (0.5-1)-1 SB74662-13	60225155	Soil	08-Aug-13 09:06	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.4		µg/kg dry	21.4	16.0	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 21.4		µg/kg dry	21.4	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.4		µg/kg dry	21.4	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.4		µg/kg dry	21.4	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.4		µg/kg dry	21.4	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.4		µg/kg dry	21.4	17.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.4		µg/kg dry	21.4	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.84	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 1.43		mg/kg dry	1.43	0.623	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**4.91**		mg/kg dry	1.43	0.527	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.4**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-23 (3-4)-1 SB74662-14	60225155	Soil	08-Aug-13 09:07	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 182		µg/kg dry	182	46.2	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 182		µg/kg dry	182	50.4	1	"	"	"	"	"	X
120-12-7	Anthracene	< 182		µg/kg dry	182	46.4	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 182		µg/kg dry	182	48.7	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 182		µg/kg dry	182	49.6	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 182		µg/kg dry	182	39.5	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 182		µg/kg dry	182	50.6	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 182		µg/kg dry	182	64.5	1	"	"	"	"	"	X
218-01-9	Chrysene	< 182		µg/kg dry	182	51.4	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 182		µg/kg dry	182	47.0	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 182		µg/kg dry	182	50.9	1	"	"	"	"	"	X
86-73-7	Fluorene	< 182		µg/kg dry	182	50.6	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 182		µg/kg dry	182	50.4	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 182		µg/kg dry	182	53.7	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 182		µg/kg dry	182	52.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 182		µg/kg dry	182	50.8	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 182		µg/kg dry	182	48.6	1	"	"	"	"	"	X
129-00-0	Pyrene	< 182		µg/kg dry	182	44.0	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*80*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*89*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.1		µg/kg dry	21.1	15.8	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 21.1		µg/kg dry	21.1	19.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.1		µg/kg dry	21.1	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.1		µg/kg dry	21.1	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.1		µg/kg dry	21.1	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.1		µg/kg dry	21.1	17.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.1		µg/kg dry	21.1	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.1		µg/kg dry	21.1	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.1		µg/kg dry	21.1	8.71	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.5		mg/kg dry	28.5	1.4	1	CT ETPH	12-Aug-13	12-Aug-13	SEP	1319147	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-23 (3-4)-1 SB74662-14	60225155	Soil	08-Aug-13 09:07	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 28.5		mg/kg dry	28.5	2.9	1	CT ETPH	12-Aug-13	12-Aug-13	SEP	1319147	
68476-31-3	Fuel Oil #4	< 28.5		mg/kg dry	28.5	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.5		mg/kg dry	28.5	7.1	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.5		mg/kg dry	28.5	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.5		mg/kg dry	28.5	7.1	1	"	"	"	"	"	
	Unidentified	< 28.5		mg/kg dry	28.5	7.1	1	"	"	"	"	"	
	Other Oil	< 28.5		mg/kg dry	28.5	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 28.5		mg/kg dry	28.5	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 28.5		mg/kg dry	28.5	2.6	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*77*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.81**		mg/kg dry	1.55	0.677	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**8.27**		mg/kg dry	1.55	0.572	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-16 (0.5-1)-1 SB74662-15	60225155	Soil	08-Aug-13 10:30	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.8		µg/kg dry	19.8	14.8	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 19.8		µg/kg dry	19.8	17.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.8		µg/kg dry	19.8	12.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.8		µg/kg dry	19.8	11.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.8		µg/kg dry	19.8	10.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**46.5**		µg/kg dry	19.8	16.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.8		µg/kg dry	19.8	12.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.8		µg/kg dry	19.8	18.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.8		µg/kg dry	19.8	8.16	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.90**		mg/kg dry	1.47	0.642	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**23.6**		mg/kg dry	1.47	0.543	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-16 (2-3)-1 SB74662-16	60225155	Soil	08-Aug-13 10:32	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	15.9	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**2,540**		µg/kg dry	21.3	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**83.0**		µg/kg dry	21.3	10.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.78	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**9.26**		mg/kg dry	1.42	0.620	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**163**		mg/kg dry	1.42	0.524	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.3**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-44 (0.5-1)-1 SB74662-17	60225155	Soil	08-Aug-13 10:40	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.0		µg/kg dry	20.0	15.0	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 20.0		µg/kg dry	20.0	18.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.0		µg/kg dry	20.0	12.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.0		µg/kg dry	20.0	12.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.0		µg/kg dry	20.0	10.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.0		µg/kg dry	20.0	16.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.0		µg/kg dry	20.0	12.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.0		µg/kg dry	20.0	18.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.0		µg/kg dry	20.0	8.26	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.97**		mg/kg dry	1.50	0.655	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**22.0**		mg/kg dry	1.50	0.554	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-44 (3-4)-1 SB74662-18	60225155	Soil	08-Aug-13 10:42	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.3		µg/kg dry	22.3	16.6	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 22.3		µg/kg dry	22.3	20.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.3		µg/kg dry	22.3	14.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.3		µg/kg dry	22.3	13.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**3,250**		µg/kg dry	22.3	11.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.3		µg/kg dry	22.3	18.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**79.0**		µg/kg dry	22.3	11.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.3		µg/kg dry	22.3	20.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.3		µg/kg dry	22.3	9.18	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.43**		mg/kg dry	1.52	0.664	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**96.5**		mg/kg dry	1.52	0.561	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**87.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-44 (4-5)-1 SB74662-19	60225155	Soil	08-Aug-13 10:44	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 185		µg/kg dry	185	47.1	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 185		µg/kg dry	185	51.3	1	"	"	"	"	"	X
120-12-7	Anthracene	< 185		µg/kg dry	185	47.2	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 185		µg/kg dry	185	49.6	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 185		µg/kg dry	185	50.4	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 185		µg/kg dry	185	40.2	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 185		µg/kg dry	185	51.5	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 185		µg/kg dry	185	65.6	1	"	"	"	"	"	X
218-01-9	Chrysene	< 185		µg/kg dry	185	52.3	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 185		µg/kg dry	185	47.8	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 185		µg/kg dry	185	51.8	1	"	"	"	"	"	X
86-73-7	Fluorene	< 185		µg/kg dry	185	51.5	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 185		µg/kg dry	185	51.3	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 185		µg/kg dry	185	54.6	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 185		µg/kg dry	185	52.9	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 185		µg/kg dry	185	51.7	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 185		µg/kg dry	185	49.4	1	"	"	"	"	"	X
129-00-0	Pyrene	< 185		µg/kg dry	185	44.8	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*84*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*75*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.8		µg/kg dry	21.8	16.3	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 21.8		µg/kg dry	21.8	19.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.8		µg/kg dry	21.8	14.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.8		µg/kg dry	21.8	13.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**182**		µg/kg dry	21.8	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.8		µg/kg dry	21.8	18.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.8		µg/kg dry	21.8	13.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.8		µg/kg dry	21.8	20.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.8		µg/kg dry	21.8	8.99	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.1		mg/kg dry	29.1	1.5	1	CT ETPH	12-Aug-13	12-Aug-13	SEP	1319147	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-44 (4-5)-1 SB74662-19	60225155	Soil	08-Aug-13 10:44	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 29.1		mg/kg dry	29.1	2.9	1	CT ETPH	12-Aug-13	12-Aug-13	SEP	1319147	
68476-31-3	Fuel Oil #4	< 29.1		mg/kg dry	29.1	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.1		mg/kg dry	29.1	7.3	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.1		mg/kg dry	29.1	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.1		mg/kg dry	29.1	7.3	1	"	"	"	"	"	
	Unidentified	< 29.1		mg/kg dry	29.1	7.3	1	"	"	"	"	"	
	Other Oil	< 29.1		mg/kg dry	29.1	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 29.1		mg/kg dry	29.1	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 29.1		mg/kg dry	29.1	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*67*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.97**		mg/kg dry	1.51	0.657	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**18.1**		mg/kg dry	1.51	0.556	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-44 (8-10)-1 SB74662-20	60225155	Soil	08-Aug-13 10:46	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 30.5		µg/kg dry	30.5	22.8	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 30.5		µg/kg dry	30.5	27.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 30.5		µg/kg dry	30.5	19.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 30.5		µg/kg dry	30.5	18.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 30.5		µg/kg dry	30.5	15.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 30.5		µg/kg dry	30.5	25.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 30.5		µg/kg dry	30.5	18.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 30.5		µg/kg dry	30.5	28.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 30.5		µg/kg dry	30.5	12.6	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**63.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-43 (0-0.5)-1 SB74662-21	60225155	Soil	08-Aug-13 10:50	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.3		µg/kg dry	19.3	14.4	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 19.3		µg/kg dry	19.3	17.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.3		µg/kg dry	19.3	12.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.3		µg/kg dry	19.3	11.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.3		µg/kg dry	19.3	10.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.3		µg/kg dry	19.3	16.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.3		µg/kg dry	19.3	12.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.3		µg/kg dry	19.3	18.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.3		µg/kg dry	19.3	7.97	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.24**		mg/kg dry	1.49	0.652	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**30.5**		mg/kg dry	1.49	0.551	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-43 (1-2)-1 SB74662-22	60225155	Soil	08-Aug-13 10:52	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.7		µg/kg dry	19.7	14.7	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 19.7		µg/kg dry	19.7	17.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.7		µg/kg dry	19.7	12.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.7		µg/kg dry	19.7	11.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.7		µg/kg dry	19.7	10.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.7		µg/kg dry	19.7	16.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.7		µg/kg dry	19.7	12.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.7		µg/kg dry	19.7	18.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.7		µg/kg dry	19.7	8.13	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.89**		mg/kg dry	1.35	0.589	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**16.9**		mg/kg dry	1.35	0.498	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.4**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-43 (3-4)-1 SB74662-23	60225155	Soil	08-Aug-13 10:54	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 184		µg/kg dry	184	46.8	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 184		µg/kg dry	184	51.0	1	"	"	"	"	"	X
120-12-7	Anthracene	**200**		µg/kg dry	184	46.9	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**632**		µg/kg dry	184	49.3	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**541**		µg/kg dry	184	50.1	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**411**		µg/kg dry	184	40.0	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**240**		µg/kg dry	184	51.2	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**475**		µg/kg dry	184	65.2	1	"	"	"	"	"	X
218-01-9	Chrysene	**581**		µg/kg dry	184	52.0	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 184		µg/kg dry	184	47.6	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**1,170**		µg/kg dry	184	51.5	1	"	"	"	"	"	X
86-73-7	Fluorene	< 184		µg/kg dry	184	51.2	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**283**		µg/kg dry	184	51.0	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 184		µg/kg dry	184	54.3	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 184		µg/kg dry	184	52.6	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 184		µg/kg dry	184	51.4	1	"	"	"	"	"	X
85-01-8	Phenanthrene	**432**		µg/kg dry	184	49.1	1	"	"	"	"	"	X
129-00-0	Pyrene	**1,160**		µg/kg dry	184	44.5	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*68*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*74*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.2		µg/kg dry	21.2	15.8	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 21.2		µg/kg dry	21.2	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.2		µg/kg dry	21.2	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.2		µg/kg dry	21.2	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**638**		µg/kg dry	21.2	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.2		µg/kg dry	21.2	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.75	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.1		mg/kg dry	29.1	1.5	1	CT ETPH	12-Aug-13	12-Aug-13	SEP	1319147	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-43 (3-4)-1 SB74662-23	60225155	Soil	08-Aug-13 10:54	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 29.1		mg/kg dry	29.1	2.9	1	CT ETPH	12-Aug-13	12-Aug-13	SEP	1319147	
68476-31-3	Fuel Oil #4	< 29.1		mg/kg dry	29.1	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.1		mg/kg dry	29.1	7.3	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.1		mg/kg dry	29.1	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.1		mg/kg dry	29.1	7.3	1	"	"	"	"	"	
	Unidentified	**61.2**		mg/kg dry	29.1	7.3	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	29.1	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**61.2**		mg/kg dry	29.1	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**61.2**		mg/kg dry	29.1	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*83*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**10.4**		mg/kg dry	1.57	0.683	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**94.4**		mg/kg dry	1.57	0.578	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-42 (0.5-1)-1	60225155	Soil	08-Aug-13 10:56	08-Aug-13
SB74662-24				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.8		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.8		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.58	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.83**		mg/kg dry	1.51	0.656	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**48.8**		mg/kg dry	1.51	0.555	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.5**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-42 (2-3)-1 SB74662-25	60225155	Soil	08-Aug-13 10:58	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.0		µg/kg dry	22.0	16.4	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 22.0		µg/kg dry	22.0	19.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.0		µg/kg dry	22.0	14.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.0		µg/kg dry	22.0	13.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**392**		µg/kg dry	22.0	11.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.0		µg/kg dry	22.0	18.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.0		µg/kg dry	22.0	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.08	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.97**		mg/kg dry	1.69	0.735	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**17.6**		mg/kg dry	1.69	0.622	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**88.3**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-42 (4-5)-1 SB74662-26	60225155	Soil	08-Aug-13 11:00	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 220	R01	µg/kg dry	220	164	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 220	R01	µg/kg dry	220	198	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 220	R01	µg/kg dry	220	141	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 220	R01	µg/kg dry	220	132	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 220	R01	µg/kg dry	220	114	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.0		µg/kg dry	22.0	18.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.0		µg/kg dry	22.0	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.07	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.37**		mg/kg dry	1.60	0.699	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**15.1**		mg/kg dry	1.60	0.591	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-41 (0.5-1)-1 SB74662-27	60225155	Soil	08-Aug-13 11:02	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.4		µg/kg dry	20.4	15.2	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 20.4		µg/kg dry	20.4	18.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.4		µg/kg dry	20.4	13.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.4		µg/kg dry	20.4	12.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.4		µg/kg dry	20.4	10.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.4		µg/kg dry	20.4	17.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.4		µg/kg dry	20.4	12.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.4		µg/kg dry	20.4	19.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.4		µg/kg dry	20.4	8.41	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.71**		mg/kg dry	1.36	0.594	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**20.1**		mg/kg dry	1.36	0.503	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-41 (1-2)-1 SB74662-28	60225155	Soil	08-Aug-13 11:04	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.1		µg/kg dry	21.1	15.7	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 21.1		µg/kg dry	21.1	19.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.1		µg/kg dry	21.1	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.1		µg/kg dry	21.1	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**396**		µg/kg dry	21.1	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.1		µg/kg dry	21.1	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.1		µg/kg dry	21.1	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.1		µg/kg dry	21.1	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.1		µg/kg dry	21.1	8.68	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.20**		mg/kg dry	1.38	0.603	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**25.0**		mg/kg dry	1.38	0.510	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-41 (2-3)-1 SB74662-29	60225155	Soil	08-Aug-13 11:06	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 186		µg/kg dry	186	47.4	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 186		µg/kg dry	186	51.6	1	"	"	"	"	"	X
120-12-7	Anthracene	< 186		µg/kg dry	186	47.5	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 186		µg/kg dry	186	49.9	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 186		µg/kg dry	186	50.7	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 186		µg/kg dry	186	40.5	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 186		µg/kg dry	186	51.8	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 186		µg/kg dry	186	66.0	1	"	"	"	"	"	X
218-01-9	Chrysene	< 186		µg/kg dry	186	52.6	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 186		µg/kg dry	186	48.1	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 186		µg/kg dry	186	52.1	1	"	"	"	"	"	X
86-73-7	Fluorene	< 186		µg/kg dry	186	51.8	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 186		µg/kg dry	186	51.7	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 186		µg/kg dry	186	55.0	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 186		µg/kg dry	186	53.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 186		µg/kg dry	186	52.0	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 186		µg/kg dry	186	49.7	1	"	"	"	"	"	X
129-00-0	Pyrene	< 186		µg/kg dry	186	45.0	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*81*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*91*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.6		µg/kg dry	20.6	15.4	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 20.6		µg/kg dry	20.6	18.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.6		µg/kg dry	20.6	13.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.6		µg/kg dry	20.6	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**199**		µg/kg dry	20.6	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.6		µg/kg dry	20.6	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.49	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.9		mg/kg dry	28.9	1.4	1	CT ETPH	12-Aug-13	13-Aug-13	SEP	1319147	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-41 (2-3)-1 SB74662-29	60225155	Soil	08-Aug-13 11:06	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 28.9		mg/kg dry	28.9	2.9	1	CT ETPH	12-Aug-13	13-Aug-13	SEP	1319147	
68476-31-3	Fuel Oil #4	< 28.9		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.9		mg/kg dry	28.9	7.2	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.9		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.9		mg/kg dry	28.9	7.2	1	"	"	"	"	"	
	Unidentified	**72.4**		mg/kg dry	28.9	7.2	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**72.4**		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**72.4**		mg/kg dry	28.9	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*84*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.96**		mg/kg dry	1.61	0.700	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**30.6**		mg/kg dry	1.61	0.592	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**88.5**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-40 (0-0.5)-1 SB74662-30	60225155	Soil	08-Aug-13 11:08	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.3		µg/kg dry	20.3	15.1	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 20.3		µg/kg dry	20.3	18.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.3		µg/kg dry	20.3	13.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.3		µg/kg dry	20.3	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.3		µg/kg dry	20.3	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.3		µg/kg dry	20.3	16.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.3		µg/kg dry	20.3	12.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.3		µg/kg dry	20.3	18.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.3		µg/kg dry	20.3	8.36	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.38**		mg/kg dry	1.56	0.681	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**20.5**		mg/kg dry	1.56	0.576	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-40 (2-3)-1 SB74662-31	60225155	Soil	08-Aug-13 11:10	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.6		µg/kg dry	22.6	16.9	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 22.6		µg/kg dry	22.6	20.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.6		µg/kg dry	22.6	14.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.6		µg/kg dry	22.6	13.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**173**		µg/kg dry	22.6	11.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.6		µg/kg dry	22.6	18.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.6		µg/kg dry	22.6	14.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.6		µg/kg dry	22.6	21.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.6		µg/kg dry	22.6	9.33	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.07**		mg/kg dry	1.71	0.744	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**13.2**		mg/kg dry	1.71	0.629	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**87.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-40 (4-5)-1 SB74662-32	60225155	Soil	08-Aug-13 11:12	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 320		µg/kg dry	320	81.2	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 320		µg/kg dry	320	88.5	1	"	"	"	"	"	X
120-12-7	Anthracene	< 320		µg/kg dry	320	81.4	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 320		µg/kg dry	320	85.5	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 320		µg/kg dry	320	87.0	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 320		µg/kg dry	320	69.4	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 320		µg/kg dry	320	88.9	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 320		µg/kg dry	320	113	1	"	"	"	"	"	X
218-01-9	Chrysene	< 320		µg/kg dry	320	90.2	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 320		µg/kg dry	320	82.5	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 320		µg/kg dry	320	89.3	1	"	"	"	"	"	X
86-73-7	Fluorene	< 320		µg/kg dry	320	88.8	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 320		µg/kg dry	320	88.6	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 320		µg/kg dry	320	94.3	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 320		µg/kg dry	320	91.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 320		µg/kg dry	320	89.2	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 320		µg/kg dry	320	85.3	1	"	"	"	"	"	X
129-00-0	Pyrene	< 320		µg/kg dry	320	77.2	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*59*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*60*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 371	R01	µg/kg dry	371	277	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 371	R01	µg/kg dry	371	335	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 371	R01	µg/kg dry	371	238	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 371	R01	µg/kg dry	371	223	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 371	R01	µg/kg dry	371	193	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 37.1		µg/kg dry	37.1	31.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 37.1		µg/kg dry	37.1	23.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 37.1		µg/kg dry	37.1	34.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 37.1		µg/kg dry	37.1	15.3	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 50.7		mg/kg dry	50.7	2.5	1	CT ETPH	12-Aug-13	13-Aug-13	SEP	1319147	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-40 (4-5)-1 SB74662-32	60225155	Soil	08-Aug-13 11:12	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 50.7		mg/kg dry	50.7	5.1	1	CT ETPH	12-Aug-13	13-Aug-13	SEP	1319147	
68476-31-3	Fuel Oil #4	< 50.7		mg/kg dry	50.7	5.1	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 50.7		mg/kg dry	50.7	12.7	1	"	"	"	"	"	
M09800000	Motor Oil	< 50.7		mg/kg dry	50.7	5.1	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 50.7		mg/kg dry	50.7	12.7	1	"	"	"	"	"	
	Unidentified	< 50.7		mg/kg dry	50.7	12.7	1	"	"	"	"	"	
	Other Oil	< 50.7		mg/kg dry	50.7	5.1	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 50.7		mg/kg dry	50.7	5.1	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 50.7		mg/kg dry	50.7	4.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*75*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**6.79**		mg/kg dry	2.68	1.17	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**63.1**		mg/kg dry	2.68	0.989	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**51.3**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-40 (5-7)-1 SB74662-33	60225155	Soil	08-Aug-13 11:14	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 44.7		µg/kg dry	44.7	33.4	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 44.7		µg/kg dry	44.7	40.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 44.7		µg/kg dry	44.7	28.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 44.7		µg/kg dry	44.7	26.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 44.7		µg/kg dry	44.7	23.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 44.7		µg/kg dry	44.7	37.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 44.7		µg/kg dry	44.7	27.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 44.7		µg/kg dry	44.7	41.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 44.7		µg/kg dry	44.7	18.4	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**44.4**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-39 (0.5-1)-1 SB74662-34	60225155	Soil	08-Aug-13 11:15	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.7		µg/kg dry	21.7	16.2	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 21.7		µg/kg dry	21.7	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.7		µg/kg dry	21.7	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.7		µg/kg dry	21.7	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.7		µg/kg dry	21.7	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.7		µg/kg dry	21.7	18.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.7		µg/kg dry	21.7	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.7		µg/kg dry	21.7	20.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.7		µg/kg dry	21.7	8.94	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.87**		mg/kg dry	1.51	0.658	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**4.99**		mg/kg dry	1.51	0.557	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-39 (1-2)-1 SB74662-35	60225155	Soil	08-Aug-13 11:17	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.7		µg/kg dry	20.7	15.5	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 20.7		µg/kg dry	20.7	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.7		µg/kg dry	20.7	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.7		µg/kg dry	20.7	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.7		µg/kg dry	20.7	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.7		µg/kg dry	20.7	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.7		µg/kg dry	20.7	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.7		µg/kg dry	20.7	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.7		µg/kg dry	20.7	8.55	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.52**		mg/kg dry	1.39	0.607	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**9.35**		mg/kg dry	1.39	0.514	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-39 (3-4)-1 SB74662-36	60225155	Soil	08-Aug-13 11:19	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 213	R01	µg/kg dry	213	159	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 213	R01	µg/kg dry	213	192	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 213	R01	µg/kg dry	213	137	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 213	R01	µg/kg dry	213	128	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 213	R01	µg/kg dry	213	111	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.79	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.10**		mg/kg dry	1.53	0.666	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**19.5**		mg/kg dry	1.53	0.563	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**86.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-38 (0-0.5)-1 SB74662-37	60225155	Soil	08-Aug-13 11:20	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.1		µg/kg dry	20.1	15.0	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 20.1		µg/kg dry	20.1	18.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.1		µg/kg dry	20.1	12.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.1		µg/kg dry	20.1	12.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.1		µg/kg dry	20.1	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.1		µg/kg dry	20.1	16.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.1		µg/kg dry	20.1	12.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.1		µg/kg dry	20.1	18.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.1		µg/kg dry	20.1	8.30	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.25**		mg/kg dry	1.59	0.693	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**4.93**		mg/kg dry	1.59	0.586	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-38 (2-3)-1 SB74662-38	60225155	Soil	08-Aug-13 11:22	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.6		µg/kg dry	20.6	15.4	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 20.6		µg/kg dry	20.6	18.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.6		µg/kg dry	20.6	13.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.6		µg/kg dry	20.6	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.6		µg/kg dry	20.6	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.6		µg/kg dry	20.6	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.50	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.16**		mg/kg dry	1.55	0.675	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**14.1**		mg/kg dry	1.55	0.570	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-38 (4-5)-1 SB74662-39	60225155	Soil	08-Aug-13 11:24	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 48.8	R01	µg/kg dry	48.8	36.5	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 48.8	R01	µg/kg dry	48.8	44.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 48.8	R01	µg/kg dry	48.8	31.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 48.8	R01	µg/kg dry	48.8	29.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 48.8	R01	µg/kg dry	48.8	25.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 24.4		µg/kg dry	24.4	20.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 24.4		µg/kg dry	24.4	15.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 24.4		µg/kg dry	24.4	22.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 24.4		µg/kg dry	24.4	10.1	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.79**		mg/kg dry	1.76	0.766	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**45.6**		mg/kg dry	1.76	0.647	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**80.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-37 (0.5-1)-1 SB74662-40	60225155	Soil	08-Aug-13 11:26	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.8		µg/kg dry	19.8	14.8	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 19.8		µg/kg dry	19.8	17.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.8		µg/kg dry	19.8	12.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.8		µg/kg dry	19.8	11.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.8		µg/kg dry	19.8	10.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.8		µg/kg dry	19.8	16.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.8		µg/kg dry	19.8	12.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.8		µg/kg dry	19.8	18.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.8		µg/kg dry	19.8	8.15	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.02**		mg/kg dry	1.54	0.673	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**11.0**		mg/kg dry	1.54	0.569	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.4**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-37 (2-3)-1 SB74662-41	60225155	Soil	08-Aug-13 11:28	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 45.2	R01	µg/kg dry	45.2	33.8	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 45.2	R01	µg/kg dry	45.2	40.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 45.2	R01	µg/kg dry	45.2	29.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 45.2	R01	µg/kg dry	45.2	27.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 45.2	R01	µg/kg dry	45.2	23.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.6		µg/kg dry	22.6	18.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.6		µg/kg dry	22.6	14.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.6		µg/kg dry	22.6	21.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.6		µg/kg dry	22.6	9.33	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.43**		mg/kg dry	1.59	0.691	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**24.3**		mg/kg dry	1.59	0.585	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**87.3**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-37 (4-5)-1	60225155	Soil	08-Aug-13 11:30	08-Aug-13
SB74662-42				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 175		µg/kg dry	175	44.6	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 175		µg/kg dry	175	48.6	1	"	"	"	"	"	X
120-12-7	Anthracene	< 175		µg/kg dry	175	44.7	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 175		µg/kg dry	175	46.9	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 175		µg/kg dry	175	47.8	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 175		µg/kg dry	175	38.1	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 175		µg/kg dry	175	48.8	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 175		µg/kg dry	175	62.1	1	"	"	"	"	"	X
218-01-9	Chrysene	< 175		µg/kg dry	175	49.5	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 175		µg/kg dry	175	45.3	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 175		µg/kg dry	175	49.0	1	"	"	"	"	"	X
86-73-7	Fluorene	< 175		µg/kg dry	175	48.8	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 175		µg/kg dry	175	48.6	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 175		µg/kg dry	175	51.7	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 175		µg/kg dry	175	50.1	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 175		µg/kg dry	175	48.9	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 175		µg/kg dry	175	46.8	1	"	"	"	"	"	X
129-00-0	Pyrene	< 175		µg/kg dry	175	42.4	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*75*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*86*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.6		µg/kg dry	20.6	15.4	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 20.6		µg/kg dry	20.6	18.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.6		µg/kg dry	20.6	13.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.6		µg/kg dry	20.6	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.6		µg/kg dry	20.6	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.6		µg/kg dry	20.6	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.49	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.0		mg/kg dry	28.0	1.4	1	CT ETPH	13-Aug-13	14-Aug-13	SEP	1319297	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-37 (4-5)-1 SB74662-42	60225155	Soil	08-Aug-13 11:30	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 28.0		mg/kg dry	28.0	2.8	1	CT ETPH	13-Aug-13	14-Aug-13	SEP	1319297	
68476-31-3	Fuel Oil #4	< 28.0		mg/kg dry	28.0	2.8	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.0		mg/kg dry	28.0	7.0	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.0		mg/kg dry	28.0	2.8	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.0		mg/kg dry	28.0	7.0	1	"	"	"	"	"	
	Unidentified	< 28.0		mg/kg dry	28.0	7.0	1	"	"	"	"	"	
	Other Oil	< 28.0		mg/kg dry	28.0	2.8	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 28.0		mg/kg dry	28.0	2.8	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 28.0		mg/kg dry	28.0	2.6	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*78*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.69**		mg/kg dry	1.51	0.657	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**6.36**		mg/kg dry	1.51	0.556	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-36 (0-0.5)-1 SB74662-43	60225155	Soil	08-Aug-13 11:40	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.8		µg/kg dry	19.8	14.8	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 19.8		µg/kg dry	19.8	17.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.8		µg/kg dry	19.8	12.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.8		µg/kg dry	19.8	11.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.8		µg/kg dry	19.8	10.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.8		µg/kg dry	19.8	16.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.8		µg/kg dry	19.8	12.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.8		µg/kg dry	19.8	18.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.8		µg/kg dry	19.8	8.18	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.81**		mg/kg dry	1.54	0.672	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**6.63**		mg/kg dry	1.54	0.568	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-36 (1-2)-1 SB74662-44	60225155	Soil	08-Aug-13 11:42	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 45.1	R01	µg/kg dry	45.1	33.7	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 45.1	R01	µg/kg dry	45.1	40.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 45.1	R01	µg/kg dry	45.1	28.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 45.1	R01	µg/kg dry	45.1	27.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 45.1	R01	µg/kg dry	45.1	23.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.5		µg/kg dry	22.5	18.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.5		µg/kg dry	22.5	14.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.5		µg/kg dry	22.5	21.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.5		µg/kg dry	22.5	9.30	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**10.4**		mg/kg dry	1.62	0.707	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**73.7**		mg/kg dry	1.62	0.598	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**85.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-36 (3-4)-1 SB74662-45	60225155	Soil	08-Aug-13 11:45	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	15.9	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**93.9**		µg/kg dry	21.3	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.80	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.63**		mg/kg dry	1.58	0.690	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**14.8**		mg/kg dry	1.58	0.583	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-36 (5-7)-1 SB74662-46	60225155	Soil	08-Aug-13 11:47	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.9		µg/kg dry	20.9	15.6	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 20.9		µg/kg dry	20.9	18.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.9		µg/kg dry	20.9	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.9		µg/kg dry	20.9	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**77.5**		µg/kg dry	20.9	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.9		µg/kg dry	20.9	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.9		µg/kg dry	20.9	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.9		µg/kg dry	20.9	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.9		µg/kg dry	20.9	8.64	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-34 (0.5-1)-1 SB74662-47	60225155	Soil	08-Aug-13 11:50	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.6		µg/kg dry	20.6	15.4	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 20.6		µg/kg dry	20.6	18.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.6		µg/kg dry	20.6	13.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.6		µg/kg dry	20.6	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**74.1**		µg/kg dry	20.6	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.6		µg/kg dry	20.6	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.49	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.38**		mg/kg dry	1.64	0.714	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**18.0**		mg/kg dry	1.64	0.603	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-34 (2-3)-1 SB74662-48	60225155	Soil	08-Aug-13 11:52	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.6		µg/kg dry	20.6	15.4	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 20.6		µg/kg dry	20.6	18.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.6		µg/kg dry	20.6	13.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.6		µg/kg dry	20.6	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**130**		µg/kg dry	20.6	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.6		µg/kg dry	20.6	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.48	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*40*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.69**		mg/kg dry	1.40	0.610	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**52.0**		mg/kg dry	1.40	0.515	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-34 (4-5)-1 SB74662-49	60225155	Soil	08-Aug-13 11:54	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.9		µg/kg dry	22.9	17.1	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 22.9		µg/kg dry	22.9	20.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.9		µg/kg dry	22.9	14.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.9		µg/kg dry	22.9	13.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.9		µg/kg dry	22.9	11.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.9		µg/kg dry	22.9	19.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.9		µg/kg dry	22.9	14.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.9		µg/kg dry	22.9	21.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.9		µg/kg dry	22.9	9.44	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.00**		mg/kg dry	1.50	0.652	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**12.2**		mg/kg dry	1.50	0.551	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**86.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-34 (8-9)-1 SB74662-50	60225155	Soil	08-Aug-13 11:56	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 28.3		µg/kg dry	28.3	21.2	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 28.3		µg/kg dry	28.3	25.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 28.3		µg/kg dry	28.3	18.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 28.3		µg/kg dry	28.3	17.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 28.3		µg/kg dry	28.3	14.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 28.3		µg/kg dry	28.3	23.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 28.3		µg/kg dry	28.3	17.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 28.3		µg/kg dry	28.3	26.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 28.3		µg/kg dry	28.3	11.7	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**68.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-25 (0.5-1)-1 SB74662-51	60225155	Soil	08-Aug-13 12:30	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.6		µg/kg dry	20.6	15.4	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 20.6		µg/kg dry	20.6	18.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.6		µg/kg dry	20.6	13.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.6		µg/kg dry	20.6	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.6		µg/kg dry	20.6	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.6		µg/kg dry	20.6	12.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.48	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*40*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*45*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.88**		mg/kg dry	1.34	0.585	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**22.2**		mg/kg dry	1.34	0.494	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**95.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-25 (1-2)-1 SB74662-52	60225155	Soil	08-Aug-13 12:32	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.3		µg/kg dry	20.3	15.1	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 20.3		µg/kg dry	20.3	18.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.3		µg/kg dry	20.3	13.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.3		µg/kg dry	20.3	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.3		µg/kg dry	20.3	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.3		µg/kg dry	20.3	16.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.3		µg/kg dry	20.3	12.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.3		µg/kg dry	20.3	18.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.3		µg/kg dry	20.3	8.36	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.72**		mg/kg dry	1.50	0.655	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**15.4**		mg/kg dry	1.50	0.554	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**95.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-25 (4-5)-1 SB74662-53	60225155	Soil	08-Aug-13 12:34	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 23.0		µg/kg dry	23.0	17.2	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 23.0		µg/kg dry	23.0	20.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.0		µg/kg dry	23.0	14.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.0		µg/kg dry	23.0	13.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**309**		µg/kg dry	23.0	12.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.0		µg/kg dry	23.0	19.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.0		µg/kg dry	23.0	14.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.0		µg/kg dry	23.0	21.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.0		µg/kg dry	23.0	9.50	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.00**		mg/kg dry	1.73	0.755	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**30.1**		mg/kg dry	1.73	0.639	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**84.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-26 (0.5-1)-1 SB74662-54	60225155	Soil	08-Aug-13 13:40	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.8		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.8		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.57	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.74**		mg/kg dry	1.46	0.639	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**39.2**		mg/kg dry	1.46	0.540	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**95.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-26 (2-3)-1 SB74662-55	60225155	Soil	08-Aug-13 13:42	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 227	R01	µg/kg dry	227	170	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 227	R01	µg/kg dry	227	205	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 227	R01	µg/kg dry	227	146	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 227	R01	µg/kg dry	227	137	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 227	R01	µg/kg dry	227	118	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.7		µg/kg dry	22.7	19.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.7		µg/kg dry	22.7	14.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.7		µg/kg dry	22.7	21.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.7		µg/kg dry	22.7	9.38	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.06**		mg/kg dry	1.65	0.719	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**27.6**		mg/kg dry	1.65	0.608	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**86.2**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-26 (4-5)-1 SB74662-56	60225155	Soil	08-Aug-13 13:44	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 234	R01	µg/kg dry	234	174	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 234	R01	µg/kg dry	234	210	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 234	R01	µg/kg dry	234	150	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 234	R01	µg/kg dry	234	140	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 234	R01	µg/kg dry	234	121	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.4		µg/kg dry	23.4	19.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**35.0**		µg/kg dry	23.4	11.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.4		µg/kg dry	23.4	21.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.4		µg/kg dry	23.4	9.63	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*18300*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**8.08**		mg/kg dry	1.53	0.667	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**123**		mg/kg dry	1.53	0.564	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**84.2**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-27 (0-0.5)-1 SB74662-57	60225155	Soil	08-Aug-13 13:50	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.3		µg/kg dry	20.3	15.2	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 20.3		µg/kg dry	20.3	18.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.3		µg/kg dry	20.3	13.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.3		µg/kg dry	20.3	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.3		µg/kg dry	20.3	10.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.3		µg/kg dry	20.3	16.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.3		µg/kg dry	20.3	12.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.3		µg/kg dry	20.3	18.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.3		µg/kg dry	20.3	8.38	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.23**		mg/kg dry	1.51	0.660	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**13.2**		mg/kg dry	1.51	0.558	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**95.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-27 (1-2)-1 SB74662-58	60225155	Soil	08-Aug-13 13:52	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.0		µg/kg dry	22.0	16.5	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 22.0		µg/kg dry	22.0	19.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.0		µg/kg dry	22.0	14.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.0		µg/kg dry	22.0	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.0		µg/kg dry	22.0	11.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.0		µg/kg dry	22.0	18.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.0		µg/kg dry	22.0	13.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.09	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.97**		mg/kg dry	1.65	0.721	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**10.7**		mg/kg dry	1.65	0.610	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-27 (3-4)-1 SB74662-59	60225155	Soil	08-Aug-13 13:54	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.3		µg/kg dry	22.3	16.6	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 22.3		µg/kg dry	22.3	20.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.3		µg/kg dry	22.3	14.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.3		µg/kg dry	22.3	13.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.3		µg/kg dry	22.3	11.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.3		µg/kg dry	22.3	18.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.3		µg/kg dry	22.3	13.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.3		µg/kg dry	22.3	20.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.3		µg/kg dry	22.3	9.18	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.18**		mg/kg dry	1.52	0.664	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**14.5**		mg/kg dry	1.52	0.561	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**88.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-28 (0.5-1)-1 SB74662-60	60225155	Soil	08-Aug-13 13:55	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.6		µg/kg dry	20.6	15.4	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 20.6		µg/kg dry	20.6	18.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.6		µg/kg dry	20.6	13.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.6		µg/kg dry	20.6	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.6		µg/kg dry	20.6	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.6		µg/kg dry	20.6	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.51	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.84**		mg/kg dry	1.48	0.647	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**22.2**		mg/kg dry	1.48	0.547	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**95.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-28 (2-3)-1 SB74662-61	60225155	Soil	08-Aug-13 13:57	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 237	R01	µg/kg dry	237	177	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 237	R01	µg/kg dry	237	214	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 237	R01	µg/kg dry	237	152	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 237	R01	µg/kg dry	237	143	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 237	R01	µg/kg dry	237	123	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.7		µg/kg dry	23.7	19.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.7		µg/kg dry	23.7	14.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.7		µg/kg dry	23.7	22.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.7		µg/kg dry	23.7	9.79	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.09**		mg/kg dry	1.66	0.725	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**28.9**		mg/kg dry	1.66	0.613	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**84.2**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-28 (4-5)-1 SB74662-62	60225155	Soil	08-Aug-13 13:59	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 23.5		µg/kg dry	23.5	17.6	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 23.5		µg/kg dry	23.5	21.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.5		µg/kg dry	23.5	15.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.5		µg/kg dry	23.5	14.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 23.5		µg/kg dry	23.5	12.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.5		µg/kg dry	23.5	19.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.5		µg/kg dry	23.5	14.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.5		µg/kg dry	23.5	21.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.5		µg/kg dry	23.5	9.71	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.94**		mg/kg dry	1.59	0.692	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**12.3**		mg/kg dry	1.59	0.585	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**84.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-29 (0-0.5)-1 SB74662-63	60225155	Soil	08-Aug-13 14:02	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	15.9	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.3		µg/kg dry	21.3	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.79	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.95**		mg/kg dry	1.58	0.689	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**31.9**		mg/kg dry	1.58	0.582	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-29 (1-2)-1 SB74662-64	60225155	Soil	08-Aug-13 14:04	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 209	R01	µg/kg dry	209	156	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 209	R01	µg/kg dry	209	188	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 209	R01	µg/kg dry	209	134	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 209	R01	µg/kg dry	209	126	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 209	R01	µg/kg dry	209	109	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.9		µg/kg dry	20.9	17.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.9		µg/kg dry	20.9	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.9		µg/kg dry	20.9	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.9		µg/kg dry	20.9	8.62	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*20600*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.13**		mg/kg dry	1.51	0.660	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**23.0**		mg/kg dry	1.51	0.558	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-29 (3-4)-1 SB74662-65	60225155	Soil	08-Aug-13 14:08	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.8		µg/kg dry	22.8	17.0	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 22.8		µg/kg dry	22.8	20.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.8		µg/kg dry	22.8	14.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.8		µg/kg dry	22.8	13.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**293**		µg/kg dry	22.8	11.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.8		µg/kg dry	22.8	19.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.8		µg/kg dry	22.8	14.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.8		µg/kg dry	22.8	21.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.8		µg/kg dry	22.8	9.41	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**6.41**		mg/kg dry	1.54	0.670	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**32.0**		mg/kg dry	1.54	0.567	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**85.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-30 (0.5-1)-1 SB74662-66	60225155	Soil	08-Aug-13 14:10	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.2		µg/kg dry	21.2	15.8	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 21.2		µg/kg dry	21.2	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.2		µg/kg dry	21.2	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.2		µg/kg dry	21.2	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.2		µg/kg dry	21.2	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.2		µg/kg dry	21.2	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.74	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.35**		mg/kg dry	1.37	0.599	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**42.9**		mg/kg dry	1.37	0.507	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-30 (2-3) SB74662-67	60225155	Soil	08-Aug-13 14:12	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.3		µg/kg dry	20.3	15.2	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 20.3		µg/kg dry	20.3	18.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.3		µg/kg dry	20.3	13.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.3		µg/kg dry	20.3	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.3		µg/kg dry	20.3	10.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.3		µg/kg dry	20.3	16.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.3		µg/kg dry	20.3	12.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.3		µg/kg dry	20.3	18.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.3		µg/kg dry	20.3	8.39	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.38**		mg/kg dry	1.45	0.633	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**22.9**		mg/kg dry	1.45	0.535	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-30 (3-4) SB74662-68	60225155	Soil	08-Aug-13 14:14	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 180		µg/kg dry	180	45.6	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 180		µg/kg dry	180	49.8	1	"	"	"	"	"	X
120-12-7	Anthracene	< 180		µg/kg dry	180	45.7	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**205**		µg/kg dry	180	48.1	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**222**		µg/kg dry	180	48.9	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**221**		µg/kg dry	180	39.0	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 180		µg/kg dry	180	49.9	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**207**		µg/kg dry	180	63.6	1	"	"	"	"	"	X
218-01-9	Chrysene	**209**		µg/kg dry	180	50.7	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 180		µg/kg dry	180	46.4	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**456**		µg/kg dry	180	50.2	1	"	"	"	"	"	X
86-73-7	Fluorene	< 180		µg/kg dry	180	49.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 180		µg/kg dry	180	49.8	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 180		µg/kg dry	180	53.0	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 180		µg/kg dry	180	51.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 180		µg/kg dry	180	50.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	**222**		µg/kg dry	180	47.9	1	"	"	"	"	"	X
129-00-0	Pyrene	**353**		µg/kg dry	180	43.4	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*85*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*79*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.9		µg/kg dry	20.9	15.6	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 20.9		µg/kg dry	20.9	18.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.9		µg/kg dry	20.9	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.9		µg/kg dry	20.9	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**207**		µg/kg dry	20.9	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.9		µg/kg dry	20.9	17.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.9		µg/kg dry	20.9	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.9		µg/kg dry	20.9	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.9		µg/kg dry	20.9	8.62	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.6		mg/kg dry	28.6	1.4	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319297	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-30 (3-4) SB74662-68	60225155	Soil	08-Aug-13 14:14	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 28.6		mg/kg dry	28.6	2.9	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319297	
68476-31-3	Fuel Oil #4	< 28.6		mg/kg dry	28.6	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.6		mg/kg dry	28.6	7.1	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.6		mg/kg dry	28.6	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.6		mg/kg dry	28.6	7.1	1	"	"	"	"	"	
	Unidentified	**76.7**		mg/kg dry	28.6	7.1	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	28.6	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**76.7**		mg/kg dry	28.6	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**76.7**		mg/kg dry	28.6	2.6	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*74*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.86**		mg/kg dry	1.50	0.654	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**27.8**		mg/kg dry	1.50	0.553	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-32 (0-0.5)-1 SB74662-69	60225155	Soil	08-Aug-13 14:20	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.8		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.8		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.56	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.52**		mg/kg dry	1.37	0.597	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**30.0**		mg/kg dry	1.37	0.505	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-32 (2-3)-1 SB74662-70	60225155	Soil	08-Aug-13 14:22	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 222	R01	µg/kg dry	222	166	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 222	R01	µg/kg dry	222	200	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 222	R01	µg/kg dry	222	142	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 222	R01	µg/kg dry	222	133	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 222	R01	µg/kg dry	222	115	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 222	R01	µg/kg dry	222	185	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.2		µg/kg dry	22.2	13.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.2		µg/kg dry	22.2	20.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.2		µg/kg dry	22.2	9.15	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.81**		mg/kg dry	1.58	0.689	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**14.2**		mg/kg dry	1.58	0.583	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-32 (4-5) SB74662-71	60225155	Soil	08-Aug-13 14:24	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 212	R01	µg/kg dry	212	158	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 212	R01	µg/kg dry	212	191	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 212	R01	µg/kg dry	212	136	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 212	R01	µg/kg dry	212	127	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 212	R01	µg/kg dry	212	110	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 212	R01	µg/kg dry	212	177	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.2		µg/kg dry	21.2	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.74	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.23**		mg/kg dry	1.54	0.673	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**14.6**		mg/kg dry	1.54	0.569	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.4**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-31 (0-0.5)-1 SB74662-72	60225155	Soil	08-Aug-13 14:36	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.7		µg/kg dry	20.7	15.5	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 20.7		µg/kg dry	20.7	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.7		µg/kg dry	20.7	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.7		µg/kg dry	20.7	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.7		µg/kg dry	20.7	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.7		µg/kg dry	20.7	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.7		µg/kg dry	20.7	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.7		µg/kg dry	20.7	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.7		µg/kg dry	20.7	8.55	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.64**		mg/kg dry	1.37	0.598	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**20.6**		mg/kg dry	1.37	0.506	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**95.5**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-31 (1-2)-1 SB74662-73	60225155	Soil	08-Aug-13 14:37	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 23.8		µg/kg dry	23.8	17.7	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 23.8		µg/kg dry	23.8	21.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.8		µg/kg dry	23.8	15.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.8		µg/kg dry	23.8	14.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 23.8		µg/kg dry	23.8	12.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	**1,000**		µg/kg dry	23.8	13.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.8		µg/kg dry	23.8	14.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.8		µg/kg dry	23.8	22.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.8		µg/kg dry	23.8	9.80	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.06**		mg/kg dry	1.60	0.699	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**86.0**		mg/kg dry	1.60	0.591	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**82.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-31 (3-4)-1 SB74662-74	60225155	Soil	08-Aug-13 14:38	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 191		µg/kg dry	191	48.5	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 191		µg/kg dry	191	52.9	1	"	"	"	"	"	X
120-12-7	Anthracene	< 191		µg/kg dry	191	48.7	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 191		µg/kg dry	191	51.1	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 191		µg/kg dry	191	52.0	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 191		µg/kg dry	191	41.5	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 191		µg/kg dry	191	53.1	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 191		µg/kg dry	191	67.7	1	"	"	"	"	"	X
218-01-9	Chrysene	< 191		µg/kg dry	191	53.9	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 191		µg/kg dry	191	49.3	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**236**		µg/kg dry	191	53.4	1	"	"	"	"	"	X
86-73-7	Fluorene	< 191		µg/kg dry	191	53.1	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 191		µg/kg dry	191	53.0	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 191		µg/kg dry	191	56.4	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 191		µg/kg dry	191	54.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 191		µg/kg dry	191	53.3	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 191		µg/kg dry	191	51.0	1	"	"	"	"	"	X
129-00-0	Pyrene	**222**		µg/kg dry	191	46.2	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*75*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*78*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.2		µg/kg dry	22.2	16.6	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 22.2		µg/kg dry	22.2	20.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.2		µg/kg dry	22.2	14.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.2		µg/kg dry	22.2	13.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.2		µg/kg dry	22.2	11.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**311**		µg/kg dry	22.2	18.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.2		µg/kg dry	22.2	13.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.2		µg/kg dry	22.2	20.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.2		µg/kg dry	22.2	9.17	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 30.9		mg/kg dry	30.9	1.5	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319297	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-31 (3-4)-1 SB74662-74	60225155	Soil	08-Aug-13 14:38	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 30.9		mg/kg dry	30.9	3.1	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319297	
68476-31-3	Fuel Oil #4	< 30.9		mg/kg dry	30.9	3.1	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 30.9		mg/kg dry	30.9	7.7	1	"	"	"	"	"	
M09800000	Motor Oil	< 30.9		mg/kg dry	30.9	3.1	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 30.9		mg/kg dry	30.9	7.7	1	"	"	"	"	"	
	Unidentified	**66.6**		mg/kg dry	30.9	7.7	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	30.9	3.1	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**66.6**		mg/kg dry	30.9	3.1	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**66.6**		mg/kg dry	30.9	2.9	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*77*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**8.85**		mg/kg dry	1.74	0.757	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**64.9**		mg/kg dry	1.74	0.640	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**86.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-33 (0.5-1)-1 SB74662-75	60225155	Soil	08-Aug-13 14:30	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.7		µg/kg dry	21.7	16.2	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 21.7		µg/kg dry	21.7	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.7		µg/kg dry	21.7	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.7		µg/kg dry	21.7	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.7		µg/kg dry	21.7	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.7		µg/kg dry	21.7	18.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.7		µg/kg dry	21.7	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.7		µg/kg dry	21.7	20.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.7		µg/kg dry	21.7	8.95	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.19**		mg/kg dry	1.46	0.635	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**21.8**		mg/kg dry	1.46	0.537	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-33 (2-3)-1 SB74662-76	60225155	Soil	08-Aug-13 14:32	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 182		µg/kg dry	182	46.3	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 182		µg/kg dry	182	50.5	1	"	"	"	"	"	X
120-12-7	Anthracene	< 182		µg/kg dry	182	46.4	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 182		µg/kg dry	182	48.7	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 182		µg/kg dry	182	49.6	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 182		µg/kg dry	182	39.6	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 182		µg/kg dry	182	50.7	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 182		µg/kg dry	182	64.5	1	"	"	"	"	"	X
218-01-9	Chrysene	< 182		µg/kg dry	182	51.4	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 182		µg/kg dry	182	47.0	1	"	"	"	"	"	X
206-44-0	Fluoranthene	220		µg/kg dry	182	50.9	1	"	"	"	"	"	X
86-73-7	Fluorene	< 182		µg/kg dry	182	50.6	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 182		µg/kg dry	182	50.5	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 182		µg/kg dry	182	53.7	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 182		µg/kg dry	182	52.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 182		µg/kg dry	182	50.8	1	"	"	"	"	"	X
85-01-8	Phenanthrene	185		µg/kg dry	182	48.6	1	"	"	"	"	"	X
129-00-0	Pyrene	196		µg/kg dry	182	44.0	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*76*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*78*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.4		µg/kg dry	21.4	16.0	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 21.4		µg/kg dry	21.4	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.4		µg/kg dry	21.4	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.4		µg/kg dry	21.4	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.4		µg/kg dry	21.4	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	78.2		µg/kg dry	21.4	17.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.4		µg/kg dry	21.4	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.84	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.7		mg/kg dry	28.7	1.4	1	CT ETPH	13-Aug-13	14-Aug-13	SEP	1319297	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-33 (2-3)-1 SB74662-76	60225155	Soil	08-Aug-13 14:32	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 28.7		mg/kg dry	28.7	2.9	1	CT ETPH	13-Aug-13	14-Aug-13	SEP	1319297	
68476-31-3	Fuel Oil #4	< 28.7		mg/kg dry	28.7	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.7		mg/kg dry	28.7	7.2	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.7		mg/kg dry	28.7	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.7		mg/kg dry	28.7	7.2	1	"	"	"	"	"	
	Unidentified	**63.5**		mg/kg dry	28.7	7.2	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	28.7	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**63.5**		mg/kg dry	28.7	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**63.5**		mg/kg dry	28.7	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*58*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.67**		mg/kg dry	1.60	0.696	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**25.9**		mg/kg dry	1.60	0.588	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.5**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-33 (4-5)-1 SB74662-77	60225155	Soil	08-Aug-13 14:34	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 220	R01	µg/kg dry	220	164	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 220	R01	µg/kg dry	220	198	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 220	R01	µg/kg dry	220	141	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 220	R01	µg/kg dry	220	132	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 220	R01	µg/kg dry	220	114	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 220	R01	µg/kg dry	220	183	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.0		µg/kg dry	22.0	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.07	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.03**		mg/kg dry	1.48	0.644	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**12.2**		mg/kg dry	1.48	0.544	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-15 (0.5-1)-1 SB74662-78	60225155	Soil	08-Aug-13 14:40	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	16.1	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.6		µg/kg dry	21.6	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	**81.1**		µg/kg dry	21.6	12.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**37.8**		µg/kg dry	21.6	10.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.92	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.63**		mg/kg dry	1.52	0.664	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**20.0**		mg/kg dry	1.52	0.561	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**87.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-15 (4-5)-1 SB74662-79	60225155	Soil	08-Aug-13 14:42	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 223	R01	µg/kg dry	223	167	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 223	R01	µg/kg dry	223	201	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 223	R01	µg/kg dry	223	143	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 223	R01	µg/kg dry	223	134	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 223	R01	µg/kg dry	223	116	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 223	R01	µg/kg dry	223	186	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.3		µg/kg dry	22.3	13.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.3		µg/kg dry	22.3	20.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.3		µg/kg dry	22.3	9.22	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**8.57**		mg/kg dry	1.49	0.649	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**49.5**		mg/kg dry	1.49	0.549	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**87.3**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319150 - SW846 3545A										
Blank (1319150-BLK1)					Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Acenaphthene	< 167		µg/kg wet	167						
Acenaphthylene	< 167		µg/kg wet	167						
Anthracene	< 167		µg/kg wet	167						
Benzo (a) anthracene	< 167		µg/kg wet	167						
Benzo (a) pyrene	< 167		µg/kg wet	167						
Benzo (b) fluoranthene	< 167		µg/kg wet	167						
Benzo (g,h,i) perylene	< 167		µg/kg wet	167						
Benzo (k) fluoranthene	< 167		µg/kg wet	167						
Chrysene	< 167		µg/kg wet	167						
Dibenzo (a,h) anthracene	< 167		µg/kg wet	167						
Fluoranthene	< 167		µg/kg wet	167						
Fluorene	< 167		µg/kg wet	167						
Indeno (1,2,3-cd) pyrene	< 167		µg/kg wet	167						
1-Methylnaphthalene	< 167		µg/kg wet	167						
2-Methylnaphthalene	< 167		µg/kg wet	167						
Naphthalene	< 167		µg/kg wet	167						
Phenanthrene	< 167		µg/kg wet	167						
Pyrene	< 167		µg/kg wet	167						
Surrogate: 2-Fluorobiphenyl	*1660*		µg/kg wet		*1670*		*100*	*30-130*		
Surrogate: Terphenyl-dl4	*1700*		µg/kg wet		*1670*		*102*	*30-130*		
LCS (1319150-BS1)					Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Acenaphthene	**1770**		µg/kg wet	167	1670		106	40-140		
Acenaphthylene	**1890**		µg/kg wet	167	1670		113	40-140		
Anthracene	**1870**		µg/kg wet	167	1670		112	40-140		
Benzo (a) anthracene	**1820**		µg/kg wet	167	1670		109	40-140		
Benzo (a) pyrene	**1820**		µg/kg wet	167	1670		109	40-140		
Benzo (b) fluoranthene	**1840**		µg/kg wet	167	1670		110	40-140		
Benzo (g,h,i) perylene	**1520**		µg/kg wet	167	1670		91	40-140		
Benzo (k) fluoranthene	**1770**		µg/kg wet	167	1670		106	40-140		
Chrysene	**1760**		µg/kg wet	167	1670		106	40-140		
Dibenzo (a,h) anthracene	**1650**		µg/kg wet	167	1670		99	40-140		
Fluoranthene	**1850**		µg/kg wet	167	1670		111	40-140		
Fluorene	**1780**		µg/kg wet	167	1670		107	40-140		
Indeno (1,2,3-cd) pyrene	**1700**		µg/kg wet	167	1670		102	40-140		
1-Methylnaphthalene	**1640**		µg/kg wet	167	1670		99	40-140		
2-Methylnaphthalene	**1870**		µg/kg wet	167	1670		112	40-140		
Naphthalene	**1780**		µg/kg wet	167	1670		107	40-140		
Phenanthrene	**1820**		µg/kg wet	167	1670		109	40-140		
Pyrene	**1850**		µg/kg wet	167	1670		111	40-140		
Surrogate: 2-Fluorobiphenyl	*1550*		µg/kg wet		*1670*		*93*	*30-130*		
Surrogate: Terphenyl-dl4	*1680*		µg/kg wet		*1670*		*101*	*30-130*		
Batch 1319408 - SW846 3545A										
Blank (1319408-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Acenaphthene	< 167		µg/kg wet	167						
Acenaphthylene	< 167		µg/kg wet	167						
Anthracene	< 167		µg/kg wet	167						
Benzo (a) anthracene	< 167		µg/kg wet	167						
Benzo (a) pyrene	< 167		µg/kg wet	167						
Benzo (b) fluoranthene	< 167		µg/kg wet	167						
Benzo (g,h,i) perylene	< 167		µg/kg wet	167						
Benzo (k) fluoranthene	< 167		µg/kg wet	167						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319408 - SW846 3545A										
Blank (1319408-BLK1)						Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Chrysene	< 167		µg/kg wet	167						
Dibenzo (a,h) anthracene	< 167		µg/kg wet	167						
Fluoranthene	< 167		µg/kg wet	167						
Fluorene	< 167		µg/kg wet	167						
Indeno (1,2,3-cd) pyrene	< 167		µg/kg wet	167						
1-Methylnaphthalene	< 167		µg/kg wet	167						
2-Methylnaphthalene	< 167		µg/kg wet	167						
Naphthalene	< 167		µg/kg wet	167						
Phenanthrene	< 167		µg/kg wet	167						
Pyrene	< 167		µg/kg wet	167						
Surrogate: 2-Fluorobiphenyl	*1640*		µg/kg wet		*1670*		*98*	*30-130*		
Surrogate: Terphenyl-dl4	*1860*		µg/kg wet		*1670*		*112*	*30-130*		
LCS (1319408-BS1)						Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Acenaphthene	**1900**		µg/kg wet	167	1670		114	40-140		
Acenaphthylene	**1910**		µg/kg wet	167	1670		115	40-140		
Anthracene	**1710**		µg/kg wet	167	1670		102	40-140		
Benzo (a) anthracene	**1770**		µg/kg wet	167	1670		106	40-140		
Benzo (a) pyrene	**1880**		µg/kg wet	167	1670		113	40-140		
Benzo (b) fluoranthene	**1780**		µg/kg wet	167	1670		107	40-140		
Benzo (g,h,i) perylene	**1790**		µg/kg wet	167	1670		107	40-140		
Benzo (k) fluoranthene	**1910**		µg/kg wet	167	1670		115	40-140		
Chrysene	**1810**		µg/kg wet	167	1670		109	40-140		
Dibenzo (a,h) anthracene	**1980**		µg/kg wet	167	1670		119	40-140		
Fluoranthene	**1760**		µg/kg wet	167	1670		106	40-140		
Fluorene	**1910**		µg/kg wet	167	1670		114	40-140		
Indeno (1,2,3-cd) pyrene	**1970**		µg/kg wet	167	1670		118	40-140		
1-Methylnaphthalene	**1550**		µg/kg wet	167	1670		93	40-140		
2-Methylnaphthalene	**1990**		µg/kg wet	167	1670		119	40-140		
Naphthalene	**1700**		µg/kg wet	167	1670		102	40-140		
Phenanthrene	**1640**		µg/kg wet	167	1670		99	40-140		
Pyrene	**1840**		µg/kg wet	167	1670		110	40-140		
Surrogate: 2-Fluorobiphenyl	*1540*		µg/kg wet		*1670*		*93*	*30-130*		
Surrogate: Terphenyl-dl4	*1720*		µg/kg wet		*1670*		*103*	*30-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319073 - SW846 3540C										
Blank (1319073-BLK1)					Prepared: 09-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
LCS (1319073-BS1)					Prepared: 09-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	**251**		µg/kg wet	20.0	250		100	40-140		
Aroclor-1016 [2C]	**224**		µg/kg wet	20.0	250		90	40-140		
Aroclor-1260	**202**		µg/kg wet	20.0	250		81	40-140		
Aroclor-1260 [2C]	**199**		µg/kg wet	20.0	250		80	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
LCS Dup (1319073-BSD1)					Prepared: 09-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	**248**		µg/kg wet	20.0	250		99	40-140	1	30
Aroclor-1016 [2C]	**235**		µg/kg wet	20.0	250		94	40-140	5	30
Aroclor-1260	**204**		µg/kg wet	20.0	250		82	40-140	1	30
Aroclor-1260 [2C]	**191**		µg/kg wet	20.0	250		76	40-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Duplicate (1319073-DUP1)			**Source: SB74662-07**		Prepared: 09-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1016 [2C]	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1221	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1221 [2C]	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1232	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1232 [2C]	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1242	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1242 [2C]	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1248	**29.2**		µg/kg dry	20.2		23.4			22	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319073 - SW846 3540C										
Duplicate (1319073-DUP1)			**Source: SB74662-07**			Prepared: 09-Aug-13 Analyzed: 13-Aug-13				
Aroclor-1248 [2C]	**29.2**		µg/kg dry	20.2		26.4			10	30
Aroclor-1254	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1254 [2C]	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1260	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1260 [2C]	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1262	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1262 [2C]	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1268	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1268 [2C]	< 20.2		µg/kg dry	20.2		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*25.2*		µg/kg dry		*20.2*		*125*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*28.2*		µg/kg dry		*20.2*		*140*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*26.2*		µg/kg dry		*20.2*		*130*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*27.2*		µg/kg dry		*20.2*		*135*	*30-150*		
Matrix Spike (1319073-MS1)			**Source: SB74662-07**			Prepared: 09-Aug-13 Analyzed: 13-Aug-13				
Aroclor-1016	**270**		µg/kg dry	21.0	263	BRL	103	40-140		
Aroclor-1016 [2C]	**262**		µg/kg dry	21.0	263	BRL	100	40-140		
Aroclor-1260	**220**		µg/kg dry	21.0	263	BRL	84	40-140		
Aroclor-1260 [2C]	**215**		µg/kg dry	21.0	263	BRL	82	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.1*		µg/kg dry		*21.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg dry		*21.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.1*		µg/kg dry		*21.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*21.0*		µg/kg dry		*21.0*		*100*	*30-150*		
Matrix Spike Dup (1319073-MSD1)			**Source: SB74662-07**			Prepared: 09-Aug-13 Analyzed: 13-Aug-13				
Aroclor-1016	**242**		µg/kg dry	20.3	254	BRL	95	40-140	8	30
Aroclor-1016 [2C]	**243**		µg/kg dry	20.3	254	BRL	96	40-140	4	30
Aroclor-1260	**193**		µg/kg dry	20.3	254	BRL	76	40-140	10	30
Aroclor-1260 [2C]	**214**		µg/kg dry	20.3	254	BRL	84	40-140	3	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.3*		µg/kg dry		*20.3*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.3*		µg/kg dry		*20.3*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*19.3*		µg/kg dry		*20.3*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.3*		µg/kg dry		*20.3*		*95*	*30-150*		
Batch 1319101 - SW846 3540C										
Blank (1319101-BLK1)						Prepared: 09-Aug-13 Analyzed: 13-Aug-13				
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319101 - SW846 3540C										
Blank (1319101-BLK1)					Prepared: 09-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
LCS (1319101-BS1)					Prepared: 09-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	**236**		µg/kg wet	20.0	250		94	40-140		
Aroclor-1016 [2C]	**244**		µg/kg wet	20.0	250		98	40-140		
Aroclor-1260	**186**		µg/kg wet	20.0	250		74	40-140		
Aroclor-1260 [2C]	**202**		µg/kg wet	20.0	250		81	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
LCS Dup (1319101-BSD1)					Prepared: 09-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	**246**		µg/kg wet	20.0	250		98	40-140	4	30
Aroclor-1016 [2C]	**246**		µg/kg wet	20.0	250		98	40-140	0.8	30
Aroclor-1260	**196**		µg/kg wet	20.0	250		78	40-140	5	30
Aroclor-1260 [2C]	**202**		µg/kg wet	20.0	250		81	40-140	0	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*26.0*		µg/kg wet		*20.0*		*130*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Duplicate (1319101-DUP1)			**Source: SB74662-13**		Prepared: 09-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1016 [2C]	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1221	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1221 [2C]	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1232	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1232 [2C]	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1242	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1242 [2C]	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1248	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1248 [2C]	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1254	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1254 [2C]	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1260	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1260 [2C]	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1262	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1262 [2C]	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1268	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1268 [2C]	< 22.0		µg/kg dry	22.0		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*25.3*		µg/kg dry		*22.0*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*26.4*		µg/kg dry		*22.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*25.3*		µg/kg dry		*22.0*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.9*		µg/kg dry		*22.0*		*95*	*30-150*		
Matrix Spike (1319101-MS1)			**Source: SB74662-13**		Prepared: 09-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	**263**		µg/kg dry	20.5	257	BRL	102	40-140		
Aroclor-1016 [2C]	**265**		µg/kg dry	20.5	257	BRL	103	40-140		
Aroclor-1260	**211**		µg/kg dry	20.5	257	BRL	82	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319101 - SW846 3540C										
Matrix Spike (1319101-MS1)			**Source: SB74662-13**			Prepared: 09-Aug-13 Analyzed: 13-Aug-13				
Aroclor-1260 [2C]	**209**		µg/kg dry	20.5	257	BRL	82	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.6*		µg/kg dry		*20.5*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.6*		µg/kg dry		*20.5*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*23.6*		µg/kg dry		*20.5*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.5*		µg/kg dry		*20.5*		*100*	*30-150*		
Matrix Spike Dup (1319101-MSD1)			**Source: SB74662-13**			Prepared: 09-Aug-13 Analyzed: 13-Aug-13				
Aroclor-1016	**256**		µg/kg dry	21.3	267	BRL	96	40-140	6	30
Aroclor-1016 [2C]	**271**		µg/kg dry	21.3	267	BRL	102	40-140	2	30
Aroclor-1260	**208**		µg/kg dry	21.3	267	BRL	78	40-140	5	30
Aroclor-1260 [2C]	**220**		µg/kg dry	21.3	267	BRL	82	40-140	1	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.4*		µg/kg dry		*21.3*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*23.5*		µg/kg dry		*21.3*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.6*		µg/kg dry		*21.3*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.3*		µg/kg dry		*21.3*		*95*	*30-150*		
Batch 1319102 - SW846 3540C										
Blank (1319102-BLK1)						Prepared: 09-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
LCS (1319102-BS1)						Prepared: 09-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1016	**249**		µg/kg wet	20.0	250		100	40-140		
Aroclor-1016 [2C]	**240**		µg/kg wet	20.0	250		96	40-140		
Aroclor-1260	**195**		µg/kg wet	20.0	250		78	40-140		
Aroclor-1260 [2C]	**223**		µg/kg wet	20.0	250		89	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
LCS Dup (1319102-BSD1)						Prepared: 09-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1016	**245**		µg/kg wet	20.0	250		98	40-140	2	30
Aroclor-1016 [2C]	**253**		µg/kg wet	20.0	250		101	40-140	5	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319102 - SW846 3540C										
LCS Dup (1319102-BSD1)					Prepared: 09-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1260	**195**		µg/kg wet	20.0	250		78	40-140	0	30
Aroclor-1260 [2C]	**219**		µg/kg wet	20.0	250		88	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Duplicate (1319102-DUP1)			**Source: SB74662-35**		Prepared: 09-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1016 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1221	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1221 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1232	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1232 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1242	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1242 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1248	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1248 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1254	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1254 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1260	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1260 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1262	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1262 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1268	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1268 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg dry		*21.0*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*30.4*		µg/kg dry		*21.0*		*145*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*19.9*		µg/kg dry		*21.0*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*21.0*		µg/kg dry		*21.0*		*100*	*30-150*		
Matrix Spike (1319102-MS1)			**Source: SB74662-35**		Prepared: 09-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**313**		µg/kg dry	21.9	274	BRL	114	40-140		
Aroclor-1016 [2C]	**280**		µg/kg dry	21.9	274	BRL	102	40-140		
Aroclor-1260	**219**		µg/kg dry	21.9	274	BRL	80	40-140		
Aroclor-1260 [2C]	**275**		µg/kg dry	21.9	274	BRL	100	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.0*		µg/kg dry		*21.9*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*30.7*		µg/kg dry		*21.9*		*140*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*23.0*		µg/kg dry		*21.9*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*27.4*		µg/kg dry		*21.9*		*125*	*30-150*		
Matrix Spike Dup (1319102-MSD1)			**Source: SB74662-35**		Prepared: 09-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**276**		µg/kg dry	20.3	254	BRL	109	40-140	5	30
Aroclor-1016 [2C]	**242**		µg/kg dry	20.3	254	BRL	95	40-140	7	30
Aroclor-1260	**204**		µg/kg dry	20.3	254	BRL	80	40-140	0.5	30
Aroclor-1260 [2C]	**245**		µg/kg dry	20.3	254	BRL	96	40-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.3*		µg/kg dry		*20.3*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*28.4*		µg/kg dry		*20.3*		*140*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.3*		µg/kg dry		*20.3*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*22.3*		µg/kg dry		*20.3*		*110*	*30-150*		
Batch 1319175 - SW846 3540C										
Blank (1319175-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319175 - SW846 3540C										
Blank (1319175-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
LCS (1319175-BS1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**237**		µg/kg wet	20.0	250		95	40-140		
Aroclor-1016 [2C]	**235**		µg/kg wet	20.0	250		94	40-140		
Aroclor-1260	**190**		µg/kg wet	20.0	250		76	40-140		
Aroclor-1260 [2C]	**206**		µg/kg wet	20.0	250		82	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
LCS Dup (1319175-BSD1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**235**		µg/kg wet	20.0	250		94	40-140	0.8	30
Aroclor-1016 [2C]	**231**		µg/kg wet	20.0	250		92	40-140	2	30
Aroclor-1260	**191**		µg/kg wet	20.0	250		76	40-140	0.5	30
Aroclor-1260 [2C]	**201**		µg/kg wet	20.0	250		80	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Duplicate (1319175-DUP1)			**Source: SB74662-48**		Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1016 [2C]	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1221	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1221 [2C]	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1232	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1232 [2C]	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1242	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1242 [2C]	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1248	**132**		µg/kg dry	20.7		130			2	30
Aroclor-1248 [2C]	**108**		µg/kg dry	20.7		105			3	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319175 - SW846 3540C										
Duplicate (1319175-DUP1)			**Source: SB74662-48**			Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1254	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1254 [2C]	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1260	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1260 [2C]	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1262	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1262 [2C]	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1268	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1268 [2C]	< 20.7		µg/kg dry	20.7		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.8*		µg/kg dry		*20.7*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*13.5*		µg/kg dry		*20.7*		*65*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*16.6*		µg/kg dry		*20.7*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.7*		µg/kg dry		*20.7*		*100*	*30-150*		
Matrix Spike (1319175-MS1)			**Source: SB74662-51**			Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1016	**156**		µg/kg dry	20.6	257	BRL	61	40-140		
Aroclor-1016 [2C]	**154**		µg/kg dry	20.6	257	BRL	60	40-140		
Aroclor-1260	**120**		µg/kg dry	20.6	257	BRL	47	40-140		
Aroclor-1260 [2C]	**120**		µg/kg dry	20.6	257	BRL	47	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*14.4*		µg/kg dry		*20.6*		*70*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*15.4*		µg/kg dry		*20.6*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*11.3*		µg/kg dry		*20.6*		*55*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*11.3*		µg/kg dry		*20.6*		*55*	*30-150*		
Matrix Spike Dup (1319175-MSD1)			**Source: SB74662-51**			Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1016	**122**		µg/kg dry	20.6	257	BRL	48	40-140	24	30
Aroclor-1016 [2C]	**132**		µg/kg dry	20.6	257	BRL	51	40-140	16	30
Aroclor-1260	**104**		µg/kg dry	20.6	257	BRL	40	40-140	15	30
Aroclor-1260 [2C]	**107**		µg/kg dry	20.6	257	BRL	42	40-140	12	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*11.3*		µg/kg dry		*20.6*		*55*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*11.3*		µg/kg dry		*20.6*		*55*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*9.25*		µg/kg dry		*20.6*		*45*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*8.23*		µg/kg dry		*20.6*		*40*	*30-150*		
Batch 1319176 - SW846 3540C										
Blank (1319176-BLK1)						Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319176 - SW846 3540C										
Blank (1319176-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*12.0*		µg/kg wet		*20.0*		*60*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
LCS (1319176-BS1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**253**		µg/kg wet	20.0	250		101	40-140		
Aroclor-1016 [2C]	**234**		µg/kg wet	20.0	250		94	40-140		
Aroclor-1260	**171**		µg/kg wet	20.0	250		68	40-140		
Aroclor-1260 [2C]	**185**		µg/kg wet	20.0	250		74	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
LCS Dup (1319176-BSD1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**234**		µg/kg wet	20.0	250		94	40-140	8	30
Aroclor-1016 [2C]	**231**		µg/kg wet	20.0	250		92	40-140	1	30
Aroclor-1260	**176**		µg/kg wet	20.0	250		70	40-140	3	30
Aroclor-1260 [2C]	**183**		µg/kg wet	20.0	250		73	40-140	1	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
Duplicate (1319176-DUP1)			**Source: SB74662-75**		Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1016 [2C]	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1221	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1221 [2C]	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1232	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1232 [2C]	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1242	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1242 [2C]	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1248	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1248 [2C]	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1254	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1254 [2C]	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1260	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1260 [2C]	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1262	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1262 [2C]	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1268	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1268 [2C]	< 21.7		µg/kg dry	21.7		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.7*		µg/kg dry		*21.7*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.8*		µg/kg dry		*21.7*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*16.3*		µg/kg dry		*21.7*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.4*		µg/kg dry		*21.7*		*80*	*30-150*		
Matrix Spike (1319176-MS1)			**Source: SB74662-75**		Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**233**		µg/kg dry	21.7	271	BRL	86	40-140		
Aroclor-1016 [2C]	**239**		µg/kg dry	21.7	271	BRL	88	40-140		
Aroclor-1260	**184**		µg/kg dry	21.7	271	BRL	68	40-140		
Aroclor-1260 [2C]	**217**		µg/kg dry	21.7	271	BRL	80	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319176 - SW846 3540C										
Matrix Spike (1319176-MS1)			**Source: SB74662-75**		Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.6*		µg/kg dry		*21.7*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.7*		µg/kg dry		*21.7*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.2*		µg/kg dry		*21.7*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.4*		µg/kg dry		*21.7*		*85*	*30-150*		
Matrix Spike Dup (1319176-MSD1)			**Source: SB74662-75**		Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**206**		µg/kg dry	21.7	271	BRL	76	40-140	12	30
Aroclor-1016 [2C]	**219**		µg/kg dry	21.7	271	BRL	81	40-140	9	30
Aroclor-1260	**167**		µg/kg dry	21.7	271	BRL	62	40-140	10	30
Aroclor-1260 [2C]	**190**		µg/kg dry	21.7	271	BRL	70	40-140	13	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.5*		µg/kg dry		*21.7*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.6*		µg/kg dry		*21.7*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.2*		µg/kg dry		*21.7*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.3*		µg/kg dry		*21.7*		*80*	*30-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319147 - SW846 3550C										
Blank (1319147-BLK1)					Prepared & Analyzed: 12-Aug-13					
Gasoline	< 26.6		mg/kg wet	26.6						
Fuel Oil #2	< 26.6		mg/kg wet	26.6						
Fuel Oil #4	< 26.6		mg/kg wet	26.6						
Fuel Oil #6	< 26.6		mg/kg wet	26.6						
Motor Oil	< 26.6		mg/kg wet	26.6						
Aviation Fuel	< 26.6		mg/kg wet	26.6						
Unidentified	< 26.6		mg/kg wet	26.6						
Other Oil	< 26.6		mg/kg wet	26.6						
Total Petroleum Hydrocarbons	< 26.6		mg/kg wet	26.6						
C9-C36 Aliphatic Hydrocarbons	< 26.6		mg/kg wet	26.6						
n-Nonadecane	< 0.005		mg/kg wet	0.005						
n-Nonane	< 0.005		mg/kg wet	0.005						
n-Decane	< 0.005		mg/kg wet	0.005						
n-Dodecane	< 0.005		mg/kg wet	0.005						
n-Tetradecane	< 0.005		mg/kg wet	0.005						
n-Hexadecane	< 0.005		mg/kg wet	0.005						
n-Octadecane	< 0.005		mg/kg wet	0.005						
n-Eicosane	< 0.005		mg/kg wet	0.005						
n-Docosane	< 0.005		mg/kg wet	0.005						
n-Tetracosane	< 0.005		mg/kg wet	0.005						
n-Hexacosane	< 0.005		mg/kg wet	0.005						
n-Octacosane	< 0.005		mg/kg wet	0.005						
n-Triacontane	< 0.005		mg/kg wet	0.005						
n-Hexatriacontane	< 0.005		mg/kg wet	0.005						
Surrogate: 1-Chlorooctadecane	*2.45*		mg/kg wet		*3.33*		*73*	*50-150*		
LCS (1319147-BS1)					Prepared & Analyzed: 12-Aug-13					
C9-C36 Aliphatic Hydrocarbons	**79.5**		mg/kg wet	26.6	93.3		85	60-120		
Surrogate: 1-Chlorooctadecane	*2.70*		mg/kg wet		*3.33*		*81*	*50-150*		
Batch 1319297 - SW846 3550C										
Blank (1319297-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Gasoline	< 26.6		mg/kg wet	26.6						
Fuel Oil #2	< 26.6		mg/kg wet	26.6						
Fuel Oil #4	< 26.6		mg/kg wet	26.6						
Fuel Oil #6	< 26.6		mg/kg wet	26.6						
Motor Oil	< 26.6		mg/kg wet	26.6						
Aviation Fuel	< 26.6		mg/kg wet	26.6						
Unidentified	< 26.6		mg/kg wet	26.6						
Other Oil	< 26.6		mg/kg wet	26.6						
Total Petroleum Hydrocarbons	< 26.6		mg/kg wet	26.6						
C9-C36 Aliphatic Hydrocarbons	< 26.6		mg/kg wet	26.6						
n-Nonadecane	< 0.005		mg/kg wet	0.005						
n-Nonane	< 0.005		mg/kg wet	0.005						
n-Decane	< 0.005		mg/kg wet	0.005						
n-Dodecane	< 0.005		mg/kg wet	0.005						
n-Tetradecane	< 0.005		mg/kg wet	0.005						
n-Hexadecane	< 0.005		mg/kg wet	0.005						
n-Octadecane	< 0.005		mg/kg wet	0.005						
n-Eicosane	< 0.005		mg/kg wet	0.005						
n-Docosane	< 0.005		mg/kg wet	0.005						
n-Tetracosane	< 0.005		mg/kg wet	0.005						
n-Hexacosane	< 0.005		mg/kg wet	0.005						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319297 - SW846 3550C										
Blank (1319297-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
n-Octacosane	< 0.005		mg/kg wet	0.005						
n-Triacontane	< 0.005		mg/kg wet	0.005						
n-Hexatriacontane	< 0.005		mg/kg wet	0.005						
Surrogate: 1-Chlorooctadecane	*2.38*		mg/kg wet		*3.33*		*71*	*50-150*		
LCS (1319297-BS1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
C9-C36 Aliphatic Hydrocarbons	**70.9**		mg/kg wet	26.6	93.3		76	60-120		
Surrogate: 1-Chlorooctadecane	*2.59*		mg/kg wet		*3.33*		*78*	*50-150*		
Batch 1319406 - SW846 3550C										
Blank (1319406-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Gasoline	< 26.6		mg/kg wet	26.6						
Fuel Oil #2	< 26.6		mg/kg wet	26.6						
Fuel Oil #4	< 26.6		mg/kg wet	26.6						
Fuel Oil #6	< 26.6		mg/kg wet	26.6						
Motor Oil	< 26.6		mg/kg wet	26.6						
Aviation Fuel	< 26.6		mg/kg wet	26.6						
Unidentified	< 26.6		mg/kg wet	26.6						
Other Oil	< 26.6		mg/kg wet	26.6						
Total Petroleum Hydrocarbons	< 26.6		mg/kg wet	26.6						
C9-C36 Aliphatic Hydrocarbons	< 26.6		mg/kg wet	26.6						
n-Nonadecane	< 0.005		mg/kg wet	0.005						
n-Nonane	< 0.005		mg/kg wet	0.005						
n-Decane	< 0.005		mg/kg wet	0.005						
n-Dodecane	< 0.005		mg/kg wet	0.005						
n-Tetradecane	< 0.005		mg/kg wet	0.005						
n-Hexadecane	< 0.005		mg/kg wet	0.005						
n-Octadecane	< 0.005		mg/kg wet	0.005						
n-Eicosane	< 0.005		mg/kg wet	0.005						
n-Docosane	< 0.005		mg/kg wet	0.005						
n-Tetracosane	< 0.005		mg/kg wet	0.005						
n-Hexacosane	< 0.005		mg/kg wet	0.005						
n-Octacosane	< 0.005		mg/kg wet	0.005						
n-Triacontane	< 0.005		mg/kg wet	0.005						
n-Hexatriacontane	< 0.005		mg/kg wet	0.005						
Surrogate: 1-Chlorooctadecane	*1.74*		mg/kg wet		*3.33*		*52*	*50-150*		
LCS (1319406-BS1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
C9-C36 Aliphatic Hydrocarbons	**59.2**		mg/kg wet	26.6	93.3		63	60-120		
Surrogate: 1-Chlorooctadecane	*1.97*		mg/kg wet		*3.33*		*59*	*50-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319236 - SW846 3050B										
Blank (1319236-BLK1)					Prepared: 12-Aug-13 Analyzed: 15-Aug-13					
Arsenic	< 1.45		mg/kg wet	1.45						
Lead	< 1.45		mg/kg wet	1.45						
Duplicate (1319236-DUP1)			**Source: SB74662-13**		Prepared: 12-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**1.27**	J	mg/kg dry	1.39		1.22			5	20
Lead	**4.70**		mg/kg dry	1.39		4.91			4	20
Matrix Spike (1319236-MS1)			**Source: SB74662-13**		Prepared: 12-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**102**		mg/kg dry	1.48	123	1.22	82	75-125		
Lead	**96.7**		mg/kg dry	1.48	123	4.91	75	75-125		
Matrix Spike Dup (1319236-MSD1)			**Source: SB74662-13**		Prepared: 12-Aug-13 Analyzed: 15-Aug-13					
Lead	**109**		mg/kg dry	1.61	134	4.91	77	75-125	12	20
Arsenic	**112**		mg/kg dry	1.61	134	1.22	83	75-125	10	20
Post Spike (1319236-PS1)			**Source: SB74662-13**		Prepared: 12-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**96.7**		mg/kg dry	1.43	119	1.22	80	80-120		
Reference (1319236-SRM1)					Prepared: 12-Aug-13 Analyzed: 15-Aug-13					
Lead	**57.5**	QM9	mg/kg wet	1.50	69.1		83	83.82-116.91		
Arsenic	**80.4**		mg/kg wet	1.50	92.5		87	82.97-117.58		
Reference (1319236-SRM2)					Prepared: 12-Aug-13 Analyzed: 15-Aug-13					
Lead	**59.8**		mg/kg wet	1.50	68.4		87	83.82-116.91		
Arsenic	**82.0**		mg/kg wet	1.50	91.6		89	82.97-117.58		
Batch 1319237 - SW846 3050B										
Blank (1319237-BLK1)					Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Lead	< 1.29		mg/kg wet	1.29						
Arsenic	< 1.29		mg/kg wet	1.29						
Duplicate (1319237-DUP1)			**Source: SB74662-24**		Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Arsenic	**1.65**		mg/kg dry	1.46		1.83			11	20
Lead	**46.8**		mg/kg dry	1.46		48.8			4	20
Matrix Spike (1319237-MS1)			**Source: SB74662-24**		Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Arsenic	**114**		mg/kg dry	1.57	130	1.83	86	75-125		
Lead	**147**		mg/kg dry	1.57	130	48.8	76	75-125		
Matrix Spike Dup (1319237-MSD1)			**Source: SB74662-24**		Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Arsenic	**101**		mg/kg dry	1.39	116	1.83	86	75-125	12	20
Lead	**131**	QM8	mg/kg dry	1.39	116	48.8	71	75-125	12	20
Post Spike (1319237-PS1)			**Source: SB74662-24**		Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Lead	**155**		mg/kg dry	1.51	125	48.8	85	80-120		
Arsenic	**123**		mg/kg dry	1.51	125	1.83	97	80-120		
Reference (1319237-SRM1)					Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Arsenic	**84.0**		mg/kg wet	1.50	91.9		91	82.97-117.58		
Lead	**59.0**		mg/kg wet	1.50	68.7		86	83.82-116.91		
Reference (1319237-SRM2)					Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Lead	**60.8**		mg/kg wet	1.50	70.2		87	83.82-116.91		
Arsenic	**86.4**		mg/kg wet	1.50	93.9		92	82.97-117.58		
Batch 1319238 - SW846 3050B										
Blank (1319238-BLK1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Arsenic	< 1.37		mg/kg wet	1.37						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319238 - SW846 3050B										
Blank (1319238-BLK1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Lead	< 1.37		mg/kg wet	1.37						
Duplicate (1319238-DUP1)			**Source: SB74662-54**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**1.63**		mg/kg dry	1.55		1.74			7	20
Lead	**39.8**		mg/kg dry	1.55		39.2			1	20
Matrix Spike (1319238-MS1)			**Source: SB74662-54**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Lead	**124**	QM8	mg/kg dry	1.37	115	39.2	74	75-125		
Arsenic	**96.5**		mg/kg dry	1.37	115	1.74	83	75-125		
Matrix Spike Dup (1319238-MSD1)			**Source: SB74662-54**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Lead	**127**		mg/kg dry	1.34	111	39.2	78	75-125	2	20
Arsenic	**93.5**		mg/kg dry	1.34	111	1.74	82	75-125	3	20
Post Spike (1319238-PS1)			**Source: SB74662-54**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**106**		mg/kg dry	1.46	122	1.74	85	80-120		
Lead	**138**		mg/kg dry	1.46	122	39.2	81	80-120		
Reference (1319238-SRM1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**86.4**		mg/kg wet	1.50	94.1		92	82.97-117.58		
Lead	**63.5**		mg/kg wet	1.50	70.3		90	83.82-116.91		
Reference (1319238-SRM2)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Lead	**62.7**		mg/kg wet	1.50	68.3		92	83.82-116.91		
Arsenic	**83.8**		mg/kg wet	1.50	91.4		92	82.97-117.58		
Batch 1319239 - SW846 3050B										
Blank (1319239-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Arsenic	< 1.43		mg/kg wet	1.43						
Lead	< 1.43		mg/kg wet	1.43						
Duplicate (1319239-DUP1)			**Source: SB74662-75**		Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Lead	**24.7**		mg/kg dry	1.49		21.8			12	20
Arsenic	**2.09**		mg/kg dry	1.49		2.19			5	20
Matrix Spike (1319239-MS1)			**Source: SB74662-75**		Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Arsenic	**101**		mg/kg dry	1.40	117	2.19	84	75-125		
Lead	**108**	QM9	mg/kg dry	1.40	117	21.8	74	75-125		
Matrix Spike Dup (1319239-MSD1)			**Source: SB74662-75**		Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Arsenic	**107**		mg/kg dry	1.46	121	2.19	87	75-125	7	20
Lead	**115**		mg/kg dry	1.46	121	21.8	77	75-125	6	20
Post Spike (1319239-PS1)			**Source: SB74662-75**		Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Arsenic	**113**		mg/kg dry	1.46	121	2.19	91	80-120		
Reference (1319239-SRM1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Arsenic	**84.6**		mg/kg wet	1.50	92.2		92	82.97-117.58		
Lead	**60.6**		mg/kg wet	1.50	68.9		88	83.82-116.91		
Reference (1319239-SRM2)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Lead	**59.9**		mg/kg wet	1.50	69.4		86	83.82-116.91		
Arsenic	**85.0**		mg/kg wet	1.50	92.9		92	82.97-117.58		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319078 - General Preparation										
Duplicate (1319078-DUP1)			**Source: SB74662-01**			Prepared & Analyzed: 09-Aug-13				
% Solids	**95.3**		%			95.0			0.3	20
Batch 1319079 - General Preparation										
Duplicate (1319079-DUP1)			**Source: SB74662-21**			Prepared & Analyzed: 09-Aug-13				
% Solids	**93.8**		%			94.7			0.9	20
Batch 1319080 - General Preparation										
Duplicate (1319080-DUP1)			**Source: SB74662-41**			Prepared & Analyzed: 09-Aug-13				
% Solids	**87.8**		%			87.3			0.7	20
Batch 1319081 - General Preparation										
Duplicate (1319081-DUP1)			**Source: SB74662-61**			Prepared & Analyzed: 09-Aug-13				
% Solids	**86.7**		%			84.2			3	20

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S304818				
Initial Cal Check (S304818-ICV1)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.270728E+08	-2.8	30
n-Nonadecane	3.561546E+08	3.675153E+08	3.2	30
n-Nonane	3.732875E+08	3.681448E+08	-1.4	30
n-Decane	3.651436E+08	3.651315E+08	-0.003	30
n-Dodecane	3.48398E+08	3.592906E+08	3.1	30
n-Tetradecane	3.588449E+08	3.665299E+08	2.1	30
n-Hexadecane	3.756608E+08	3.74015E+08	-0.4	30
n-Octadecane	3.775606E+08	3.791863E+08	0.4	30
n-Eicosane	3.825055E+08	3.811256E+08	-0.4	30
n-Docosane	3.815533E+08	3.84155E+08	0.7	30
n-Tetracosane	3.82641E+08	3.839073E+08	0.3	30
n-Hexacosane	3.864596E+08	3.855051E+08	-0.2	30
n-Octacosane	3.839113E+08	3.752925E+08	-2.2	30
n-Triacontane	3.841358E+08	3.849129E+08	0.2	30
n-Hexatriacontane	3.752619E+08	3.758944E+08	0.2	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S306464				
Initial Cal Check (S306464-ICV1)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.595381E+08	3.0	30
n-Nonadecane	3.353948E+08	3.37716E+08	0.7	30
n-Nonane	3.350168E+08	3.313795E+08	-1.1	30
n-Decane	3.360605E+08	3.337294E+08	-0.7	30
n-Dodecane	3.365143E+08	3.362975E+08	-0.06	30
n-Tetradecane	3.376027E+08	3.356885E+08	-0.6	30
n-Hexadecane	3.442821E+08	3.382331E+08	-1.8	30
n-Octadecane	3.391093E+08	3.381322E+08	-0.3	30
n-Eicosane	3.378662E+08	3.365021E+08	-0.4	30
n-Docosane	3.35257E+08	3.381542E+08	0.9	30
n-Tetracosane	3.322211E+08	3.365853E+08	1.3	30
n-Hexacosane	3.327109E+08	3.358834E+08	1.0	30
n-Octacosane	3.278913E+08	3.249442E+08	-0.9	30
n-Triacontane	3.256576E+08	3.32436E+08	2.1	30
n-Hexatriacontane	3.14041E+08	3.184885E+08	1.4	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309548				
Calibration Check (S309548-CCV2)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.905309E+08	13.4	30
n-Nonadecane	3.353948E+08	3.440469E+08	2.6	30
n-Nonane	3.350168E+08	3.548587E+08	5.9	30
n-Decane	3.360605E+08	3.536284E+08	5.2	30
n-Dodecane	3.365143E+08	3.502567E+08	4.1	30
n-Tetradecane	3.376027E+08	3.489837E+08	3.4	30
n-Hexadecane	3.442821E+08	3.498681E+08	1.6	30
n-Octadecane	3.391093E+08	3.48998E+08	2.9	30
n-Eicosane	3.378662E+08	3.445369E+08	2.0	30
n-Docosane	3.35257E+08	3.368936E+08	0.5	30
n-Tetracosane	3.322211E+08	3.304001E+08	-0.5	30
n-Hexacosane	3.327109E+08	3.266854E+08	-1.8	30
n-Octacosane	3.278913E+08	3.189728E+08	-2.7	30
n-Triacontane	3.256576E+08	3.152678E+08	-3.2	30
n-Hexatriacontane	3.14041E+08	3.110173E+08	-1.0	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309548				
Calibration Check (S309548-CCV4)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.819343E+08	10.5	30
n-Nonadecane	3.353948E+08	3.422355E+08	2.0	30
n-Nonane	3.350168E+08	3.548386E+08	5.9	30
n-Decane	3.360605E+08	3.526034E+08	4.9	30
n-Dodecane	3.365143E+08	3.481178E+08	3.4	30
n-Tetradecane	3.376027E+08	3.466409E+08	2.7	30
n-Hexadecane	3.442821E+08	3.47661E+08	1.0	30
n-Octadecane	3.391093E+08	3.467614E+08	2.3	30
n-Eicosane	3.378662E+08	3.429815E+08	1.5	30
n-Docosane	3.35257E+08	3.345191E+08	-0.2	30
n-Tetracosane	3.322211E+08	3.292828E+08	-0.9	30
n-Hexacosane	3.327109E+08	3.261398E+08	-2.0	30
n-Octacosane	3.278913E+08	3.188648E+08	-2.8	30
n-Triacontane	3.256576E+08	3.15241E+08	-3.2	30
n-Hexatriacontane	3.14041E+08	3.103936E+08	-1.2	30

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309548				
Calibration Check (S309548-CCV6)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.917324E+08	13.8	30
n-Nonadecane	3.353948E+08	3.507E+08	4.6	30
n-Nonane	3.350168E+08	3.649928E+08	8.9	30
n-Decane	3.360605E+08	3.633237E+08	8.1	30
n-Dodecane	3.365143E+08	3.584914E+08	6.5	30
n-Tetradecane	3.376027E+08	3.574055E+08	5.9	30
n-Hexadecane	3.442821E+08	3.583202E+08	4.1	30
n-Octadecane	3.391093E+08	3.563765E+08	5.1	30
n-Eicosane	3.378662E+08	3.508365E+08	3.8	30
n-Docosane	3.35257E+08	3.408478E+08	1.7	30
n-Tetracosane	3.322211E+08	3.341895E+08	0.6	30
n-Hexacosane	3.327109E+08	3.302638E+08	-0.7	30
n-Octacosane	3.278913E+08	3.223211E+08	-1.7	30
n-Triacontane	3.256576E+08	3.183419E+08	-2.2	30
n-Hexatriacontane	3.14041E+08	3.144034E+08	0.1	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309685				
Calibration Check (S309685-CCV2)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.075142E+08	-8.4	30
n-Nonadecane	3.561546E+08	3.466918E+08	-2.7	30
n-Nonane	3.732875E+08	3.495138E+08	-6.4	30
n-Decane	3.651436E+08	3.504604E+08	-4.0	30
n-Dodecane	3.48398E+08	3.469559E+08	-0.4	30
n-Tetradecane	3.588449E+08	3.471714E+08	-3.3	30
n-Hexadecane	3.756608E+08	3.48455E+08	-7.2	30
n-Octadecane	3.775606E+08	3.49641E+08	-7.4	30
n-Eicosane	3.825055E+08	3.49437E+08	-8.6	30
n-Docosane	3.815533E+08	3.456723E+08	-9.4	30
n-Tetracosane	3.82641E+08	3.436526E+08	-10.2	30
n-Hexacosane	3.864596E+08	3.44161E+08	-10.9	30
n-Octacosane	3.839113E+08	3.400478E+08	-11.4	30
n-Triacontane	3.841358E+08	3.396189E+08	-11.6	30
n-Hexatriacontane	3.752619E+08	3.351177E+08	-10.7	30

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309685				
Calibration Check (S309685-CCV4)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.575214E+08	5.9	30
n-Nonadecane	3.561546E+08	3.433E+08	-3.6	30
n-Nonane	3.732875E+08	3.428918E+08	-8.1	30
n-Decane	3.651436E+08	3.443258E+08	-5.7	30
n-Dodecane	3.48398E+08	3.405914E+08	-2.2	30
n-Tetradecane	3.588449E+08	3.428566E+08	-4.5	30
n-Hexadecane	3.756608E+08	3.456312E+08	-8.0	30
n-Octadecane	3.775606E+08	3.463822E+08	-8.3	30
n-Eicosane	3.825055E+08	3.457196E+08	-9.6	30
n-Docosane	3.815533E+08	3.438138E+08	-9.9	30
n-Tetracosane	3.82641E+08	3.417747E+08	-10.7	30
n-Hexacosane	3.864596E+08	3.427532E+08	-11.3	30
n-Octacosane	3.839113E+08	3.382936E+08	-11.9	30
n-Triacontane	3.841358E+08	3.392198E+08	-11.7	30
n-Hexatriacontane	3.752619E+08	3.36684E+08	-10.3	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309692				
Calibration Check (S309692-CCV2)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.554083E+08	1.6	30
n-Nonadecane	3.353948E+08	3.10399E+08	-7.5	30
n-Nonane	3.350168E+08	3.094558E+08	-7.6	30
n-Decane	3.360605E+08	3.075644E+08	-8.5	30
n-Dodecane	3.365143E+08	3.056525E+08	-9.2	30
n-Tetradecane	3.376027E+08	3.067562E+08	-9.1	30
n-Hexadecane	3.442821E+08	3.118168E+08	-9.4	30
n-Octadecane	3.391093E+08	3.125663E+08	-7.8	30
n-Eicosane	3.378662E+08	3.125859E+08	-7.5	30
n-Docosane	3.35257E+08	3.073692E+08	-8.3	30
n-Tetracosane	3.322211E+08	3.055567E+08	-8.0	30
n-Hexacosane	3.327109E+08	3.060897E+08	-8.0	30
n-Octacosane	3.278913E+08	3.025933E+08	-7.7	30
n-Triacontane	3.256576E+08	3.017197E+08	-7.4	30
n-Hexatriacontane	3.14041E+08	2.990247E+08	-4.8	30

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309692				
Calibration Check (S309692-CCV4)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.47065E+08	-1.1	30
n-Nonadecane	3.353948E+08	2.982864E+08	-11.1	30
n-Nonane	3.350168E+08	2.918312E+08	-12.9	30
n-Decane	3.360605E+08	2.900512E+08	-13.7	30
n-Dodecane	3.365143E+08	2.894513E+08	-14.0	30
n-Tetradecane	3.376027E+08	2.930172E+08	-13.2	30
n-Hexadecane	3.442821E+08	2.985526E+08	-13.3	30
n-Octadecane	3.391093E+08	2.999191E+08	-11.6	30
n-Eicosane	3.378662E+08	3.005211E+08	-11.1	30
n-Docosane	3.35257E+08	2.958752E+08	-11.7	30
n-Tetracosane	3.322211E+08	2.942765E+08	-11.4	30
n-Hexacosane	3.327109E+08	2.944828E+08	-11.5	30
n-Octacosane	3.278913E+08	2.903942E+08	-11.4	30
n-Triacontane	3.256576E+08	2.884377E+08	-11.4	30
n-Hexatriacontane	3.14041E+08	2.8393E+08	-9.6	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309692				
Calibration Check (S309692-CCV6)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.721736E+08	7.2	30
n-Nonadecane	3.353948E+08	2.987639E+08	-10.9	30
n-Nonane	3.350168E+08	2.909398E+08	-13.2	30
n-Decane	3.360605E+08	2.903848E+08	-13.6	30
n-Dodecane	3.365143E+08	2.883073E+08	-14.3	30
n-Tetradecane	3.376027E+08	2.916778E+08	-13.6	30
n-Hexadecane	3.442821E+08	2.973693E+08	-13.6	30
n-Octadecane	3.391093E+08	2.999405E+08	-11.6	30
n-Eicosane	3.378662E+08	3.016403E+08	-10.7	30
n-Docosane	3.35257E+08	2.983363E+08	-11.0	30
n-Tetracosane	3.322211E+08	2.98081E+08	-10.3	30
n-Hexacosane	3.327109E+08	3.001016E+08	-9.8	30
n-Octacosane	3.278913E+08	2.978483E+08	-9.2	30
n-Triacontane	3.256576E+08	2.978775E+08	-8.5	30
n-Hexatriacontane	3.14041E+08	2.957788E+08	-5.8	30

Notes and Definitions

QM8	The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
R01	The Reporting Limit has been raised to account for matrix interference.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin and waste automobile oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as Calculated as.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk
Nicole Leja

SB 74662

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 8

Special Handling: 5
- ☒ Standard TAT - ~~7 to 10~~ business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECom
900 Ethan Allen Dr
Rocky Hill CT

Telephone #: 800 203 5800
Project Mgr. Malcolm Kiefer

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60227515
Site Name: Cheshire High School
Location: Cheshire CT State: CT
Sampler(s): M. Rood + J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs - Soxhlet	Lead, Arsenic	EPH	PAH					
74662 01	MB-19 (0.5-1)-1	8/8/13	930	G	SO		1			X	X							
-02	MB-19 (4-5)-1	8/8/13	932	G	SO		1			X	X							
-03	MB-18 (0.5-1)-1	8/8/13	952	G	SO		1			X	X							
-04	MB-18 (4-5)-1	8/8/13	958	G	SO		1			X	X							
-05	MB-17 (0.5-1)-1	8/8/13	1015	G	SO		1			X	X							
-06	MB-17 (4-5)-1	8/8/13	1017	G	SO		1			X	X							
-07	MB-21 (0.5-1)-1	8/8/13	920	G	SO		1			X	X							
-08	MB-21 (4-4)-1	8/8/13	922	G	SO		1			X	X							
-09	MB-22 (0-0.5)-1	8/8/13	910	G	SO		1			X	X							
-10	MB-22 (4-5)-1	8/8/13	912	G	SO		1			X	X	X	X					

MA DEP MCP CAM Report: Yes ☐ No ☒
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
		8/8/13	2:45p	
		8/8/13	1705	

☒ EDD Format equis
☒ E-mail to malcolm.kiefer@aecom.com
colleen.stoll@aecom.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

4/10/14 IR01

SB 74662e

SPECTRUM ANALYTICAL, INC.
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HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 8

Special Handling: 5
- ☒ Standard TAT - ~~7 to 10~~ business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECom
500 Enterprise Dr
Rocky Hill CT

Telephone #: 860 263 5300
Project Mgr. Malcolm Peeler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Cromwell High School
Location: Cromwell State: CT
Sampler(s): M. Reed & J. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs - Soxhlet	Lead - Arsenic	ETPH	PAHs					
74662-11	MB-26(0.5-1)-1	8/8/13	940	G	SO		1			X	X							
-12	MB-26(3-4)-1	8/8/13	942	G	SO		1			X	X	X	X					
-13	MB-23(0.5-1)-1	8/8/13	906	G	SO		1			X	X							
-14	MB-23(3-4)-1	8/8/13	907	G	SO		1			X	X	X	X					
-15	MB-16(0.5-1)-1	8/8/13	1030	G	SO		1			X	X							
-16	MB-16(2-3)-1	8/8/13	1032	G	SO		1			X	X							
-17	MB-44(0.5-1)-1	8/8/13	1040	G	SO		1			X	X							
-18	MB44(3-4)-1	8/8/13	1042	G	SO		1			X	X							
-19	MB-44(4-5)-1	8/8/13	1044	G	SO		1			X	X	X	X					
-20	MB44(8-10)-1	8/8/13	1046	G	SO		1			X								

MA DEP MCP CAM Report: Yes ☐ No ☒
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
		8/8/13	2:45p	
		8/8/13	1705	

☒ EDD Format EQUIS
☒ E-mail to Malcolm.Peeler@aecom.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

4-6 DAY TAT

SB74662e

SPECTRUM ANALYTICAL, INC.
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HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 8

Special Handling: 5
- ☒ Standard TAT - ~~7 to 10~~ business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr
Rocky Hill CT

Telephone #: 800 263 5800
Project Mgr. Malcolm Bidler

Invoice To: Sam

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Cranston High School
Location: Cranston State: RI
Sampler(s): M. Rood & J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs - Soxhlet	Lead Arsenic	ETPH	PAHs					
74662-21	MB-43(0-0.5)-1	8/8/13	1050	G	SO		1			X	X							
-22	MB-43(1-2)-1	8/8/13	1052	G	SO		1			X	X							
-23	MB-43(3-4)-1	8/8/13	1054	G	SO		1			X	X	X	X					
-24	MB-42(0.5-1)-1	8/8/13	1056	G	SO		1			X	X							
-25	MB-42(2-3)-1	8/8/13	1058	G	SO		1			X	X							
-26	MB-42(4-5)-1	8/8/13	1100	G	SO		1			X	X							
-27	MB-41(0.5-1)-1	8/8/13	1102	G	SO		1			X	X							
-28	MB-41(1-2)-1	8/8/13	1104	G	SO		1			X	X							
-29	MB-41(2-3)-1	8/8/13	1106	G	SO		1			X	X	X	X					
-30	MB-40(0-0.5)	8/8/13	1108	G	SO		1			X	X							

MA DEP MCP CAM Report: Yes ☐ No ☒
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
		8/8/13	2145p	
		8/8/13	1705	

☒ EDD Format EQUIS
☒ E-mail to Malcolm.bidler@aecom.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

LL0144R01

SB 74662 Rec

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 4 of 8

Special Handling: 5
☒ Standard TAT - ~~7 to 10~~ business days
☐ Rush TAT - Date Needed: _____
· All TATs subject to laboratory approval.
· Min. 24-hour notification needed for rushes.
· Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr
Rocky Hill CT

Telephone #: 860 263 5800
Project Mgr. Malcolm Bieler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Cheshire High School
Location: Cheshire State: CT
Sampler(s): M. Road + T. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCB - Soil 4.1.2.7	Arsenic + Lead	ETPH	PAHs				
74662-31	MB 40(2-3)-1	8/8/13	1110	G	SO		1			X	X						
-32	MB 40(4-5)-1	8/8/13	1112				1			X	X	X	X				
-33	MB 40(5-7)-1	8/8/13	1114				1			X							
-34	MB 39(0.5-1)	8/8/13	1115				1			X	X						
-35	MB 39(1-2)-1	8/8/13	1117				1			X	X						
-36	MB 39(3-4)-1	8/8/13	1119				1			X	X						
-37	MB 38(0-0.5)-1	8/8/13	1120				1			X	X						
-38	MB 38(2-3)-1	8/8/13	1122				1			X	X						
-39	MB 38(4-5)-1	8/8/13	1124				1			X	X						
-40	MB 37(0.5-1)-1	8/8/13	1126				1			X	X						

MA DEP MCP CAM Report: Yes☐ No☒
CT DPH RCP Report: Yes☒ No☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	8/8/13	2:45p	
[signature]	[signature]	8/8/13	1705	

☒ EDD Format EQuIS
☐ E-mail to Malcolm.bieler@aecom.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

4.6/0/2013 IR

SB 74662

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 5 of 8

Special Handling: S
☒ Standard TAT ~~7 to 10~~ business days
☐ Rush TAT - Date Needed: _____
· All TATs subject to laboratory approval.
· Min. 24-hour notification needed for rushes.
· Samples disposed of after 60 days unless otherwise instructed.

Report To: AEcom
500 Enterprise Dr
Rocky Hill

Telephone #: 860 263 5800
Project Mgr. Malcolm Bieler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Cromwell High School
Location: Cromwell State: CT
Sampler(s): M. Reed & J. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: VOC - 8260/624	Lead + Arsenic	PAHs	EPH				
74662-41	MB-37(2-3)-1	8/8/13	1128	G	SO		1			X	X						
-42	MB-37(4-5)-1	8/8/13	1130				1			X	X	X	X				
-43	MB-36(0-0.5)-1	8/8/13	1140				1			X	X						
-44	MB-36(1-2)-1	8/8/13	1142				1			X	X						
-45	MB-36(3-4)-1	8/8/13	1145				1			X	X						
-46	MB-36(5-7)-1	8/8/13	1147				1			X							
-47	MB-34(0.5-1)-1	8/8/13	1150				1			X	X						
-48	MB-34(2-3)-1	8/8/13	1152				1			X	X						
-49	MB-34(4-5)-1	8/8/13	1154				1			X	X						
-50	MB-34(8-9)-1	8/8/13	1156				1			X							

MA DEP MCP CAM Report: Yes☐ No☒
CT DPH RCP Report: Yes☒ No☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
Jet	Jet	8/8/13	2:45p	
		8/8/13	1645	

☒ EDD Format equis
☒ E-mail to malcolm.bieler@aecom.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

410/446 IR01

SB 74662

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 6 of 8

Special Handling: 5
- [x] Standard TAT - ~~7 to 10~~ business days
- [ ] Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr
Rocky Hill CT

Telephone #: 860 263 5800
Project Mgr. Malcolm Bieler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Cheshire High School
Location: Cheshire State: CT
Sampler(s): M. Reed + J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11=_____ 12=_____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCB - Soil	Arsenic, Lead	EPH	PAHs					
74662-51	MB25 (0-0.5)-1	8/8/13	1230	G	SO		1			X	X							
-52	MB-25 (1-2)-1	8/8/13	1232	G	SO		1			X	X							
-53	MB-25(4-5)-1	8/8/13	1234	G	SO		1			X	X							
-54	MB26(0.5-1)-1	8/8/13	1340	G	SO		1			X	X							
-55	MB-26(2-3)-1	8/8/13	1342	G	SO		1			X	X							
-56	MB-26 (4-5)-1	8/8/13	1344	G	SO		1			X	X							
-57	MB27(0-0.5)-1	8/8/13	1350	G	SO		1			X	X							
-58	MB-27(1-2)-1	8/8/13	1352	G	SO		1			X	X							
-59	MB 27 (3-4)-1	8/8/13	1354	G	SO		1			X	X							
-60	MB-28(0.5-1)-1	8/8/13	1355	G	SO		1			X	X							

MA DEP MCP CAM Report: Yes☐ No☑
CT DPH RCP Report: Yes☑ No☐

QA/QC Reporting Level
☑ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	8/8/13	2:45p	
[signature]	[signature]	8/8/13	1705	

☑ EDD Format EQuIS
☑ E-mail to Malcolm.bieler@aecom.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

4.6/0.1 HADR OK

SB 74662

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 7 of 8

Special Handling: 5
☑ Standard TAT - ~~7 to 10~~ business days
☐ Rush TAT - Date Needed: _____
· All TATs subject to laboratory approval.
· Min. 24-hour notification needed for rushes.
· Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr.
Rocky Hill, CT

Telephone #: 860-263-5800
Project Mgr. Malcolm Beeler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60325155
Site Name: Greenwich High School
Location: Greenwich State: CT
Sampler(s): M. Rood J. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs - Soxhlet	As, Pb	ETPH, PAHs						
74662-61	MB-28 (2-3) -1	8/8/13	1357	G	So		1			X	X							
-62	MB-28 (4-5) -1	8/8/13	1359	G	So		1			X	X							
-63	MB-29 (0-0.5) -1	8/8/13	1402	G	So		1			X	X							
-64	MB-29 (1-2) -1	8/8/13	1404	G	So		1			X	X							
-65	MB-29 (3-4) -1	8/8/13	1408	G	So		1			X	X							
-66	MB-30 (0.5-1) -1	8/8/13	1410	G	So		1			X	X							
-67	MB-30 (2-3)	8/8/13	1412	G	So		1			X	X							
-68	MB-30 (3-4)	8/8/13	1414	G	So		1			X	X	X						
-69	MB-32 (0-0.5) -1	8/8/13	1420	G	So		1			X	X							
-70	MB-32 (2-3) -1	8/8/13	1422	G	So		1			X	X							

MA DEP MCP CAM Report: Yes☐ No☐
CT DPH RCP Report: Yes☐ No☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature] JCT	JCT	8/8/13	2:45p	
		8/8/13	1705	

☑ EDD Format Equis
☒ E-mail to Malcolm.Beeler@AECOM.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

4.6/4.6 IR 1

SB 74662

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 8 of 8

Special Handling: 5
- [x] ~~Standard TAT - 7 to 10 business days~~
- [ ] Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr.
Rocky Hill, CT

Telephone #: 860-683-5800
Project Mgr. Malcolm Beeler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60325155
Site Name: Greenwich HS
Location: Greenwich State: CT
Sampler(s): M. Rood, J. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs, SVOCs	As, Pb	ETPH, PAHs
74662-71	MB-32(4-5)	8/8/13	1429	G	So		1			x	x	
-72	MB-31(0-0.5)-1	8/8/13	1436	G	So		1			x	x	
-73	MB-31(1-2)-1	8/8/13	1437	G	So		1			x	x	
-74	MB-31(3-4)-1	8/8/13	1438	G	So		1			x	x	x
-75	MB-33(0.5-1)-1	8/8/13	1430	G	So		1			x	x	
-76	MB-33(2-3)-1	8/8/13	1432	G	So		1			x	x	x
-77	MB-33(4-5)-1	8/8/13	1434	G	So		1			x	x	
-78	MB-15(0.5-1)-1	8/8/13	1440	G	So		1			x	x	
-79	MB-15(4-5)-1	8/8/13	1442	G	So		1			x	x	

MA DEP MCP CAM Report: Yes☐ No☐
CT DPH RCP Report: Yes☐ No☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature] JCT	JCT [signature]	8/8/13	2:45 PM	
		8/8/13	1705	

☑ EDD Format Equis
☑ E-mail to Malcolm.Beeler@AECOM.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

HOLD IR_01

Report Date:
15-Aug-13 16:59

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: Greenwich HS - Greenwich, CT
Project #: 60225155

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74662-01	MB-19 (0.5-1)-1	Soil	08-Aug-13 09:30	08-Aug-13 17:05
SB74662-02	MB-19 (4-5)-1	Soil	08-Aug-13 09:32	08-Aug-13 17:05
SB74662-03	MB-18 (0.5-1)-1	Soil	08-Aug-13 09:52	08-Aug-13 17:05
SB74662-04	MB-18 (4-5)-1	Soil	08-Aug-13 09:58	08-Aug-13 17:05
SB74662-05	MB-17 (0.5-1)-1	Soil	08-Aug-13 10:15	08-Aug-13 17:05
SB74662-06	MB-17 (4-5)-1	Soil	08-Aug-13 10:17	08-Aug-13 17:05
SB74662-07	MB-21 (0.5-1)-1	Soil	08-Aug-13 09:20	08-Aug-13 17:05
SB74662-08	MB-21 (3-4)-1	Soil	08-Aug-13 09:22	08-Aug-13 17:05
SB74662-09	MB-22 (0-0.5)-1	Soil	08-Aug-13 09:10	08-Aug-13 17:05
SB74662-10	MB-22 (4-5)-1	Soil	08-Aug-13 09:12	08-Aug-13 17:05
SB74662-11	MB-20 (0.5-1)-1	Soil	08-Aug-13 09:40	08-Aug-13 17:05
SB74662-12	MB-20 (3-4)-1	Soil	08-Aug-13 09:42	08-Aug-13 17:05
SB74662-13	MB-23 (0.5-1)-1	Soil	08-Aug-13 09:06	08-Aug-13 17:05
SB74662-14	MB-23 (3-4)-1	Soil	08-Aug-13 09:07	08-Aug-13 17:05
SB74662-15	MB-16 (0.5-1)-1	Soil	08-Aug-13 10:30	08-Aug-13 17:05
SB74662-16	MB-16 (2-3)-1	Soil	08-Aug-13 10:32	08-Aug-13 17:05
SB74662-17	MB-44 (0.5-1)-1	Soil	08-Aug-13 10:40	08-Aug-13 17:05
SB74662-18	MB-44 (3-4)-1	Soil	08-Aug-13 10:42	08-Aug-13 17:05
SB74662-19	MB-44 (4-5)-1	Soil	08-Aug-13 10:44	08-Aug-13 17:05
SB74662-20	MB-44 (8-10)-1	Soil	08-Aug-13 10:46	08-Aug-13 17:05
SB74662-21	MB-43 (0-0.5)-1	Soil	08-Aug-13 10:50	08-Aug-13 17:05
SB74662-22	MB-43 (1-2)-1	Soil	08-Aug-13 10:52	08-Aug-13 17:05
SB74662-23	MB-43 (3-4)-1	Soil	08-Aug-13 10:54	08-Aug-13 17:05
SB74662-24	MB-42 (0.5-1)-1	Soil	08-Aug-13 10:56	08-Aug-13 17:05
SB74662-25	MB-42 (2-3)-1	Soil	08-Aug-13 10:58	08-Aug-13 17:05
SB74662-26	MB-42 (4-5)-1	Soil	08-Aug-13 11:00	08-Aug-13 17:05
SB74662-27	MB-41 (0.5-1)-1	Soil	08-Aug-13 11:02	08-Aug-13 17:05
SB74662-28	MB-41 (1-2)-1	Soil	08-Aug-13 11:04	08-Aug-13 17:05
SB74662-29	MB-41 (2-3)-1	Soil	08-Aug-13 11:06	08-Aug-13 17:05
SB74662-30	MB-40 (0-0.5)-1	Soil	08-Aug-13 11:08	08-Aug-13 17:05
SB74662-31	MB-40 (2-3)-1	Soil	08-Aug-13 11:10	08-Aug-13 17:05
SB74662-32	MB-40 (4-5)-1	Soil	08-Aug-13 11:12	08-Aug-13 17:05
SB74662-33	MB-40 (5-7)-1	Soil	08-Aug-13 11:14	08-Aug-13 17:05
SB74662-34	MB-39 (0.5-1)-1	Soil	08-Aug-13 11:15	08-Aug-13 17:05
SB74662-35	MB-39 (1-2)-1	Soil	08-Aug-13 11:17	08-Aug-13 17:05
SB74662-36	MB-39 (3-4)-1	Soil	08-Aug-13 11:19	08-Aug-13 17:05
SB74662-37	MB-38 (0-0.5)-1	Soil	08-Aug-13 11:20	08-Aug-13 17:05

SB74662-38	MB-38 (2-3)-1	Soil	08-Aug-13 11:22	08-Aug-13 17:05
SB74662-39	MB-38 (4-5)-1	Soil	08-Aug-13 11:24	08-Aug-13 17:05
SB74662-40	MB-37 (0.5-1)-1	Soil	08-Aug-13 11:26	08-Aug-13 17:05
SB74662-41	MB-37 (2-3)-1	Soil	08-Aug-13 11:28	08-Aug-13 17:05
SB74662-42	MB-37 (4-5)-1	Soil	08-Aug-13 11:30	08-Aug-13 17:05
SB74662-43	MB-36 (0-0.5)-1	Soil	08-Aug-13 11:40	08-Aug-13 17:05
SB74662-44	MB-36 (1-2)-1	Soil	08-Aug-13 11:42	08-Aug-13 17:05
SB74662-45	MB-36 (3-4)-1	Soil	08-Aug-13 11:45	08-Aug-13 17:05
SB74662-46	MB-36 (5-7)-1	Soil	08-Aug-13 11:47	08-Aug-13 17:05
SB74662-47	MB-34 (0.5-1)-1	Soil	08-Aug-13 11:50	08-Aug-13 17:05
SB74662-48	MB-34 (2-3)-1	Soil	08-Aug-13 11:52	08-Aug-13 17:05
SB74662-49	MB-34 (4-5)-1	Soil	08-Aug-13 11:54	08-Aug-13 17:05
SB74662-50	MB-34 (8-9)-1	Soil	08-Aug-13 11:56	08-Aug-13 17:05
SB74662-51	MB-25 (0.5-1)-1	Soil	08-Aug-13 12:30	08-Aug-13 17:05
SB74662-52	MB-25 (1-2)-1	Soil	08-Aug-13 12:32	08-Aug-13 17:05
SB74662-53	MB-25 (4-5)-1	Soil	08-Aug-13 12:34	08-Aug-13 17:05
SB74662-54	MB-26 (0.5-1)-1	Soil	08-Aug-13 13:40	08-Aug-13 17:05
SB74662-55	MB-26 (2-3)-1	Soil	08-Aug-13 13:42	08-Aug-13 17:05
SB74662-56	MB-26 (4-5)-1	Soil	08-Aug-13 13:44	08-Aug-13 17:05
SB74662-57	MB-27 (0-0.5)-1	Soil	08-Aug-13 13:50	08-Aug-13 17:05
SB74662-58	MB-27 (1-2)-1	Soil	08-Aug-13 13:52	08-Aug-13 17:05
SB74662-59	MB-27 (3-4)-1	Soil	08-Aug-13 13:54	08-Aug-13 17:05
SB74662-60	MB-28 (0.5-1)-1	Soil	08-Aug-13 13:55	08-Aug-13 17:05
SB74662-61	MB-28 (2-3)-1	Soil	08-Aug-13 13:57	08-Aug-13 17:05
SB74662-62	MB-28 (4-5)-1	Soil	08-Aug-13 13:59	08-Aug-13 17:05
SB74662-63	MB-29 (0-0.5)-1	Soil	08-Aug-13 14:02	08-Aug-13 17:05
SB74662-64	MB-29 (1-2)-1	Soil	08-Aug-13 14:04	08-Aug-13 17:05
SB74662-65	MB-29 (3-4)-1	Soil	08-Aug-13 14:08	08-Aug-13 17:05
SB74662-66	MB-30 (0.5-1)-1	Soil	08-Aug-13 14:10	08-Aug-13 17:05
SB74662-67	MB-30 (2-3)	Soil	08-Aug-13 14:12	08-Aug-13 17:05
SB74662-68	MB-30 (3-4)	Soil	08-Aug-13 14:14	08-Aug-13 17:05
SB74662-69	MB-32 (0-0.5)-1	Soil	08-Aug-13 14:20	08-Aug-13 17:05
SB74662-70	MB-32 (2-3)-1	Soil	08-Aug-13 14:22	08-Aug-13 17:05
SB74662-71	MB-32 (4-5)	Soil	08-Aug-13 14:24	08-Aug-13 17:05
SB74662-72	MB-31 (0-0.5)-1	Soil	08-Aug-13 14:36	08-Aug-13 17:05
SB74662-73	MB-31 (1-2)-1	Soil	08-Aug-13 14:37	08-Aug-13 17:05
SB74662-74	MB-31 (3-4)-1	Soil	08-Aug-13 14:38	08-Aug-13 17:05
SB74662-75	MB-33 (0.5-1)-1	Soil	08-Aug-13 14:30	08-Aug-13 17:05
SB74662-76	MB-33 (2-3)-1	Soil	08-Aug-13 14:32	08-Aug-13 17:05
SB74662-77	MB-33 (4-5)-1	Soil	08-Aug-13 14:34	08-Aug-13 17:05
SB74662-78	MB-15 (0.5-1)-1	Soil	08-Aug-13 14:40	08-Aug-13 17:05
SB74662-79	MB-15 (4-5)-1	Soil	08-Aug-13 14:42	08-Aug-13 17:05

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 127 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: Greenwich HS - Greenwich, CT

Project Number: 60225155

Sampling Date(s):
8/8/2013

Laboratory Sample ID(s):
SB74662-01 through SB74662-79

RCP Methods Used:

CT ETPH

SW846 6010C

SW846 8082A

SW846 8270D

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/15/2013

CASE NARRATIVE:

The samples were received 4.6 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 6010C

Laboratory Control Samples:

1319236 SRM/SRMD

Lead percent recoveries (83/87) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MB-16 (0.5-1)-1
MB-16 (2-3)-1
MB-17 (0.5-1)-1
MB-17 (4-5)-1
MB-18 (0.5-1)-1
MB-18 (4-5)-1
MB-19 (0.5-1)-1
MB-19 (4-5)-1
MB-20 (0.5-1)-1
MB-20 (3-4)-1
MB-21 (0.5-1)-1
MB-21 (3-4)-1
MB-22 (0-0.5)-1
MB-22 (4-5)-1
MB-23 (0.5-1)-1
MB-23 (3-4)-1
MB-43 (0-0.5)-1
MB-44 (0.5-1)-1
MB-44 (3-4)-1
MB-44 (4-5)-1

SW846 6010C

Spikes:

1319237-MSD1 *Source: SB74662-24*

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

Lead

1319238-MS1 *Source: SB74662-54*

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

Lead

1319239-MS1 *Source: SB74662-75*

The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.

Lead

SW846 8082A

Samples:

SB74662-12 *MB-20 (3-4)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74662-26 *MB-42 (4-5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74662-32 *MB-40 (4-5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74662-36 *MB-39 (3-4)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74662-39 *MB-38 (4-5)-1*

SW846 8082A

Samples:

SB74662-39 *MB-38 (4-5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74662-41 *MB-37 (2-3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74662-44 *MB-36 (1-2)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74662-55 *MB-26 (2-3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74662-56 *MB-26 (4-5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

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

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB74662-61 *MB-28 (2-3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74662-64 *MB-29 (1-2)-1*

SW846 8082A

Samples:

SB74662-64 *MB-29 (1-2)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

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

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB74662-70 *MB-32 (2-3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254

SB74662-71 *MB-32 (4-5)*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254

SB74662-77 *MB-33 (4-5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254

SB74662-79 *MB-15 (4-5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	Greenwich HS - Greenwich, CT / 60225155
Work Order:	SB74662
Sample(s) received on:	8/8/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-19 (0.5-1)-1 SB74662-01	60225155	Soil	08-Aug-13 09:30	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.6	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319073	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.8		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.8		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.60	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.73**		mg/kg dry	1.48	0.644	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**9.33**		mg/kg dry	1.48	0.544	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**95.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-19 (4-5)-1 SB74662-02	60225155	Soil	08-Aug-13 09:32	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.1		µg/kg dry	20.1	15.0	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319073	X
11104-28-2	Aroclor-1221	< 20.1		µg/kg dry	20.1	18.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.1		µg/kg dry	20.1	12.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.1		µg/kg dry	20.1	12.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**444**		µg/kg dry	20.1	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.1		µg/kg dry	20.1	16.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.1		µg/kg dry	20.1	12.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.1		µg/kg dry	20.1	18.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.1		µg/kg dry	20.1	8.29	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.47**		mg/kg dry	1.52	0.662	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**25.1**		mg/kg dry	1.52	0.559	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-18 (0.5-1)-1 SB74662-03	60225155	Soil	08-Aug-13 09:52	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.2		µg/kg dry	20.2	15.1	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319073	X
11104-28-2	Aroclor-1221	< 20.2		µg/kg dry	20.2	18.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.2		µg/kg dry	20.2	13.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.2		µg/kg dry	20.2	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**49.5**		µg/kg dry	20.2	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.2		µg/kg dry	20.2	16.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.2		µg/kg dry	20.2	12.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.2		µg/kg dry	20.2	18.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.2		µg/kg dry	20.2	8.34	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.90**		mg/kg dry	1.42	0.621	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**31.7**		mg/kg dry	1.42	0.525	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.3**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-18 (4-5)-1 SB74662-04	60225155	Soil	08-Aug-13 09:58	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.5		µg/kg dry	22.5	16.8	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319073	X
11104-28-2	Aroclor-1221	< 22.5		µg/kg dry	22.5	20.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.5		µg/kg dry	22.5	14.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.5		µg/kg dry	22.5	13.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**3,030**		µg/kg dry	22.5	11.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.5		µg/kg dry	22.5	18.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**68.6**		µg/kg dry	22.5	11.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.5		µg/kg dry	22.5	20.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.5		µg/kg dry	22.5	9.27	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**6.88**		mg/kg dry	1.60	0.696	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**389**		mg/kg dry	1.60	0.589	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**85.4**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-17 (0.5-1)-1 SB74662-05	60225155	Soil	08-Aug-13 10:15	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	16.2	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319073	X
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**106**		µg/kg dry	21.6	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.6		µg/kg dry	21.6	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.6		µg/kg dry	21.6	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.93	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.53**		mg/kg dry	1.45	0.634	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**28.2**		mg/kg dry	1.45	0.536	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.3**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-17 (4-5)-1 SB74662-06	60225155	Soil	08-Aug-13 10:17	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 23.2		µg/kg dry	23.2	17.3	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319073	X
11104-28-2	Aroclor-1221	< 23.2		µg/kg dry	23.2	20.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.2		µg/kg dry	23.2	14.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.2		µg/kg dry	23.2	14.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,470**		µg/kg dry	23.2	12.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.2		µg/kg dry	23.2	19.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**70.7**		µg/kg dry	23.2	11.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.2		µg/kg dry	23.2	21.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.2		µg/kg dry	23.2	9.57	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**8.39**		mg/kg dry	1.71	0.747	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**147**		mg/kg dry	1.71	0.632	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**85.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-21 (0.5-1)-1 SB74662-07	60225155	Soil	08-Aug-13 09:20	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.3		µg/kg dry	20.3	15.2	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319073	X
11104-28-2	Aroclor-1221	< 20.3		µg/kg dry	20.3	18.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.3		µg/kg dry	20.3	13.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.3		µg/kg dry	20.3	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**26.4**		µg/kg dry	20.3	8.92	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.3		µg/kg dry	20.3	16.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.3		µg/kg dry	20.3	12.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.3		µg/kg dry	20.3	18.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.3		µg/kg dry	20.3	8.38	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.09**		mg/kg dry	1.48	0.646	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**5.60**		mg/kg dry	1.48	0.546	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-21 (3-4)-1 SB74662-08	60225155	Soil	08-Aug-13 09:22	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.6		µg/kg dry	22.6	16.8	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 22.6		µg/kg dry	22.6	20.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.6		µg/kg dry	22.6	14.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.6		µg/kg dry	22.6	13.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**4,330**		µg/kg dry	22.6	11.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.6		µg/kg dry	22.6	18.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**139**		µg/kg dry	22.6	14.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.6		µg/kg dry	22.6	21.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.6		µg/kg dry	22.6	9.30	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.10**		mg/kg dry	1.65	0.721	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**61.9**		mg/kg dry	1.65	0.610	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**88.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-22 (0-0.5)-1 SB74662-09	60225155	Soil	08-Aug-13 09:10	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.1		µg/kg dry	22.1	16.5	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 22.1		µg/kg dry	22.1	19.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.1		µg/kg dry	22.1	14.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.1		µg/kg dry	22.1	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**64.0**		µg/kg dry	22.1	11.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.1		µg/kg dry	22.1	18.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.1		µg/kg dry	22.1	13.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.1		µg/kg dry	22.1	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.1		µg/kg dry	22.1	9.10	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.13**		mg/kg dry	1.64	0.716	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**6.66**		mg/kg dry	1.64	0.606	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-22 (4-5)-1 SB74662-10	60225155	Soil	08-Aug-13 09:12	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 180		µg/kg dry	180	45.7	1	SW846 8270D	13-Aug-13	14-Aug-13	JG	1319408	X
208-96-8	Acenaphthylene	< 180		µg/kg dry	180	49.8	1	"	"	"	"	"	X
120-12-7	Anthracene	< 180		µg/kg dry	180	45.8	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 180		µg/kg dry	180	48.1	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 180		µg/kg dry	180	48.9	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 180		µg/kg dry	180	39.0	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 180		µg/kg dry	180	50.0	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 180		µg/kg dry	180	63.6	1	"	"	"	"	"	X
218-01-9	Chrysene	< 180		µg/kg dry	180	50.7	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 180		µg/kg dry	180	46.4	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 180		µg/kg dry	180	50.2	1	"	"	"	"	"	X
86-73-7	Fluorene	< 180		µg/kg dry	180	49.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 180		µg/kg dry	180	49.8	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 180		µg/kg dry	180	53.0	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 180		µg/kg dry	180	51.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 180		µg/kg dry	180	50.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 180		µg/kg dry	180	47.9	1	"	"	"	"	"	X
129-00-0	Pyrene	< 180		µg/kg dry	180	43.4	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*78*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*97*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.8		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.8		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.58	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.3		mg/kg dry	28.3	1.4	1	CT ETPH	13-Aug-13	14-Aug-13	SEP	1319406	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-22 (4-5)-1 SB74662-10	60225155	Soil	08-Aug-13 09:12	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 28.3		mg/kg dry	28.3	2.8	1	CT ETPH	13-Aug-13	14-Aug-13	SEP	1319406	
68476-31-3	Fuel Oil #4	< 28.3		mg/kg dry	28.3	2.8	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.3		mg/kg dry	28.3	7.1	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.3		mg/kg dry	28.3	2.8	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.3		mg/kg dry	28.3	7.1	1	"	"	"	"	"	
	Unidentified	**35.4**		mg/kg dry	28.3	7.1	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	28.3	2.8	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**35.4**		mg/kg dry	28.3	2.8	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**35.4**		mg/kg dry	28.3	2.6	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*79*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.46**		mg/kg dry	1.38	0.601	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**7.15**		mg/kg dry	1.38	0.508	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.5**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-20 (0.5-1)-1 SB74662-11	60225155	Soil	08-Aug-13 09:40	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.4		µg/kg dry	19.4	14.5	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 19.4		µg/kg dry	19.4	17.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.4		µg/kg dry	19.4	12.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.4		µg/kg dry	19.4	11.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.4		µg/kg dry	19.4	10.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.4		µg/kg dry	19.4	16.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.4		µg/kg dry	19.4	12.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.4		µg/kg dry	19.4	18.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.4		µg/kg dry	19.4	8.00	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.68**		mg/kg dry	1.43	0.623	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**4.33**		mg/kg dry	1.43	0.527	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**96.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-20 (3-4)-1 SB74662-12	60225155	Soil	08-Aug-13 09:42	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 186		µg/kg dry	186	47.2	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 186		µg/kg dry	186	51.4	1	"	"	"	"	"	X
120-12-7	Anthracene	< 186		µg/kg dry	186	47.3	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 186		µg/kg dry	186	49.7	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 186		µg/kg dry	186	50.5	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 186		µg/kg dry	186	40.3	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 186		µg/kg dry	186	51.6	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 186		µg/kg dry	186	65.7	1	"	"	"	"	"	X
218-01-9	Chrysene	< 186		µg/kg dry	186	52.4	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 186		µg/kg dry	186	47.9	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 186		µg/kg dry	186	51.9	1	"	"	"	"	"	X
86-73-7	Fluorene	< 186		µg/kg dry	186	51.6	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 186		µg/kg dry	186	51.4	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 186		µg/kg dry	186	54.8	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 186		µg/kg dry	186	53.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 186		µg/kg dry	186	51.8	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 186		µg/kg dry	186	49.5	1	"	"	"	"	"	X
129-00-0	Pyrene	< 186		µg/kg dry	186	44.8	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*81*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*96*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 211	R01	µg/kg dry	211	158	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 211	R01	µg/kg dry	211	190	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 211	R01	µg/kg dry	211	136	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 211	R01	µg/kg dry	211	127	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 211	R01	µg/kg dry	211	110	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.1		µg/kg dry	21.1	17.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.1		µg/kg dry	21.1	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.1		µg/kg dry	21.1	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.1		µg/kg dry	21.1	8.71	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.9		mg/kg dry	28.9	1.4	1	CT ETPH	12-Aug-13	12-Aug-13	SEP	1319147	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-20 (3-4)-1 SB74662-12	60225155	Soil	08-Aug-13 09:42	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 28.9		mg/kg dry	28.9	2.9	1	CT ETPH	12-Aug-13	12-Aug-13	SEP	1319147	
68476-31-3	Fuel Oil #4	< 28.9		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.9		mg/kg dry	28.9	7.2	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.9		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.9		mg/kg dry	28.9	7.2	1	"	"	"	"	"	
	Unidentified	< 28.9		mg/kg dry	28.9	7.2	1	"	"	"	"	"	
	Other Oil	< 28.9		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 28.9		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 28.9		mg/kg dry	28.9	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*78*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.58**		mg/kg dry	1.62	0.705	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**25.2**		mg/kg dry	1.62	0.596	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-23 (0.5-1)-1 SB74662-13	60225155	Soil	08-Aug-13 09:06	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.4		µg/kg dry	21.4	16.0	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 21.4		µg/kg dry	21.4	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.4		µg/kg dry	21.4	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.4		µg/kg dry	21.4	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.4		µg/kg dry	21.4	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.4		µg/kg dry	21.4	17.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.4		µg/kg dry	21.4	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.84	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 1.43		mg/kg dry	1.43	0.623	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**4.91**		mg/kg dry	1.43	0.527	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.4**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-23 (3-4)-1 SB74662-14	60225155	Soil	08-Aug-13 09:07	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 182		µg/kg dry	182	46.2	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 182		µg/kg dry	182	50.4	1	"	"	"	"	"	X
120-12-7	Anthracene	< 182		µg/kg dry	182	46.4	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 182		µg/kg dry	182	48.7	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 182		µg/kg dry	182	49.6	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 182		µg/kg dry	182	39.5	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 182		µg/kg dry	182	50.6	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 182		µg/kg dry	182	64.5	1	"	"	"	"	"	X
218-01-9	Chrysene	< 182		µg/kg dry	182	51.4	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 182		µg/kg dry	182	47.0	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 182		µg/kg dry	182	50.9	1	"	"	"	"	"	X
86-73-7	Fluorene	< 182		µg/kg dry	182	50.6	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 182		µg/kg dry	182	50.4	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 182		µg/kg dry	182	53.7	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 182		µg/kg dry	182	52.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 182		µg/kg dry	182	50.8	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 182		µg/kg dry	182	48.6	1	"	"	"	"	"	X
129-00-0	Pyrene	< 182		µg/kg dry	182	44.0	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*80*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*89*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.1		µg/kg dry	21.1	15.8	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 21.1		µg/kg dry	21.1	19.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.1		µg/kg dry	21.1	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.1		µg/kg dry	21.1	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.1		µg/kg dry	21.1	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.1		µg/kg dry	21.1	17.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.1		µg/kg dry	21.1	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.1		µg/kg dry	21.1	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.1		µg/kg dry	21.1	8.71	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.5		mg/kg dry	28.5	1.4	1	CT ETPH	12-Aug-13	12-Aug-13	SEP	1319147	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-23 (3-4)-1 SB74662-14	60225155	Soil	08-Aug-13 09:07	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 28.5		mg/kg dry	28.5	2.9	1	CT ETPH	12-Aug-13	12-Aug-13	SEP	1319147	
68476-31-3	Fuel Oil #4	< 28.5		mg/kg dry	28.5	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.5		mg/kg dry	28.5	7.1	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.5		mg/kg dry	28.5	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.5		mg/kg dry	28.5	7.1	1	"	"	"	"	"	
	Unidentified	< 28.5		mg/kg dry	28.5	7.1	1	"	"	"	"	"	
	Other Oil	< 28.5		mg/kg dry	28.5	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 28.5		mg/kg dry	28.5	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 28.5		mg/kg dry	28.5	2.6	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*77*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.81**		mg/kg dry	1.55	0.677	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**8.27**		mg/kg dry	1.55	0.572	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-16 (0.5-1)-1 SB74662-15	60225155	Soil	08-Aug-13 10:30	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.8		µg/kg dry	19.8	14.8	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 19.8		µg/kg dry	19.8	17.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.8		µg/kg dry	19.8	12.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.8		µg/kg dry	19.8	11.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.8		µg/kg dry	19.8	10.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**46.5**		µg/kg dry	19.8	16.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.8		µg/kg dry	19.8	12.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.8		µg/kg dry	19.8	18.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.8		µg/kg dry	19.8	8.16	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.90**		mg/kg dry	1.47	0.642	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**23.6**		mg/kg dry	1.47	0.543	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-16 (2-3)-1 SB74662-16	60225155	Soil	08-Aug-13 10:32	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	15.9	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**2,540**		µg/kg dry	21.3	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**83.0**		µg/kg dry	21.3	10.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.78	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**9.26**		mg/kg dry	1.42	0.620	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**163**		mg/kg dry	1.42	0.524	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.3**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-44 (0.5-1)-1 SB74662-17	60225155	Soil	08-Aug-13 10:40	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.0		µg/kg dry	20.0	15.0	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 20.0		µg/kg dry	20.0	18.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.0		µg/kg dry	20.0	12.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.0		µg/kg dry	20.0	12.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.0		µg/kg dry	20.0	10.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.0		µg/kg dry	20.0	16.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.0		µg/kg dry	20.0	12.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.0		µg/kg dry	20.0	18.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.0		µg/kg dry	20.0	8.26	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.97**		mg/kg dry	1.50	0.655	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**22.0**		mg/kg dry	1.50	0.554	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-44 (3-4)-1 SB74662-18	60225155	Soil	08-Aug-13 10:42	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.3		µg/kg dry	22.3	16.6	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 22.3		µg/kg dry	22.3	20.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.3		µg/kg dry	22.3	14.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.3		µg/kg dry	22.3	13.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**3,250**		µg/kg dry	22.3	11.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.3		µg/kg dry	22.3	18.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**79.0**		µg/kg dry	22.3	11.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.3		µg/kg dry	22.3	20.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.3		µg/kg dry	22.3	9.18	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.43**		mg/kg dry	1.52	0.664	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**96.5**		mg/kg dry	1.52	0.561	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**87.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-44 (4-5)-1 SB74662-19	60225155	Soil	08-Aug-13 10:44	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 185		µg/kg dry	185	47.1	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 185		µg/kg dry	185	51.3	1	"	"	"	"	"	X
120-12-7	Anthracene	< 185		µg/kg dry	185	47.2	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 185		µg/kg dry	185	49.6	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 185		µg/kg dry	185	50.4	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 185		µg/kg dry	185	40.2	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 185		µg/kg dry	185	51.5	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 185		µg/kg dry	185	65.6	1	"	"	"	"	"	X
218-01-9	Chrysene	< 185		µg/kg dry	185	52.3	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 185		µg/kg dry	185	47.8	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 185		µg/kg dry	185	51.8	1	"	"	"	"	"	X
86-73-7	Fluorene	< 185		µg/kg dry	185	51.5	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 185		µg/kg dry	185	51.3	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 185		µg/kg dry	185	54.6	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 185		µg/kg dry	185	52.9	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 185		µg/kg dry	185	51.7	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 185		µg/kg dry	185	49.4	1	"	"	"	"	"	X
129-00-0	Pyrene	< 185		µg/kg dry	185	44.8	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*84*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*75*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.8		µg/kg dry	21.8	16.3	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 21.8		µg/kg dry	21.8	19.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.8		µg/kg dry	21.8	14.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.8		µg/kg dry	21.8	13.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**182**		µg/kg dry	21.8	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.8		µg/kg dry	21.8	18.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.8		µg/kg dry	21.8	13.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.8		µg/kg dry	21.8	20.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.8		µg/kg dry	21.8	8.99	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.1		mg/kg dry	29.1	1.5	1	CT ETPH	12-Aug-13	12-Aug-13	SEP	1319147	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-44 (4-5)-1 SB74662-19	60225155	Soil	08-Aug-13 10:44	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 29.1		mg/kg dry	29.1	2.9	1	CT ETPH	12-Aug-13	12-Aug-13	SEP	1319147	
68476-31-3	Fuel Oil #4	< 29.1		mg/kg dry	29.1	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.1		mg/kg dry	29.1	7.3	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.1		mg/kg dry	29.1	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.1		mg/kg dry	29.1	7.3	1	"	"	"	"	"	
	Unidentified	< 29.1		mg/kg dry	29.1	7.3	1	"	"	"	"	"	
	Other Oil	< 29.1		mg/kg dry	29.1	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 29.1		mg/kg dry	29.1	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 29.1		mg/kg dry	29.1	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*67*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.97**		mg/kg dry	1.51	0.657	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**18.1**		mg/kg dry	1.51	0.556	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-44 (8-10)-1 SB74662-20	60225155	Soil	08-Aug-13 10:46	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 30.5		µg/kg dry	30.5	22.8	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 30.5		µg/kg dry	30.5	27.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 30.5		µg/kg dry	30.5	19.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 30.5		µg/kg dry	30.5	18.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 30.5		µg/kg dry	30.5	15.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 30.5		µg/kg dry	30.5	25.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 30.5		µg/kg dry	30.5	18.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 30.5		µg/kg dry	30.5	28.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 30.5		µg/kg dry	30.5	12.6	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**63.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319078	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-43 (0-0.5)-1 SB74662-21	60225155	Soil	08-Aug-13 10:50	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.3		µg/kg dry	19.3	14.4	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 19.3		µg/kg dry	19.3	17.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.3		µg/kg dry	19.3	12.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.3		µg/kg dry	19.3	11.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.3		µg/kg dry	19.3	10.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.3		µg/kg dry	19.3	16.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.3		µg/kg dry	19.3	12.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.3		µg/kg dry	19.3	18.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.3		µg/kg dry	19.3	7.97	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.24**		mg/kg dry	1.49	0.652	1	SW846 6010C	12-Aug-13	15-Aug-13	LR	1319236	X
7439-92-1	Lead	**30.5**		mg/kg dry	1.49	0.551	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-43 (1-2)-1 SB74662-22	60225155	Soil	08-Aug-13 10:52	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.7		µg/kg dry	19.7	14.7	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 19.7		µg/kg dry	19.7	17.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.7		µg/kg dry	19.7	12.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.7		µg/kg dry	19.7	11.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.7		µg/kg dry	19.7	10.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.7		µg/kg dry	19.7	16.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.7		µg/kg dry	19.7	12.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.7		µg/kg dry	19.7	18.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.7		µg/kg dry	19.7	8.13	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.89**		mg/kg dry	1.35	0.589	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**16.9**		mg/kg dry	1.35	0.498	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.4**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-43 (3-4)-1 SB74662-23	60225155	Soil	08-Aug-13 10:54	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 184		µg/kg dry	184	46.8	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 184		µg/kg dry	184	51.0	1	"	"	"	"	"	X
120-12-7	Anthracene	**200**		µg/kg dry	184	46.9	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**632**		µg/kg dry	184	49.3	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**541**		µg/kg dry	184	50.1	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**411**		µg/kg dry	184	40.0	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**240**		µg/kg dry	184	51.2	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**475**		µg/kg dry	184	65.2	1	"	"	"	"	"	X
218-01-9	Chrysene	**581**		µg/kg dry	184	52.0	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 184		µg/kg dry	184	47.6	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**1,170**		µg/kg dry	184	51.5	1	"	"	"	"	"	X
86-73-7	Fluorene	< 184		µg/kg dry	184	51.2	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**283**		µg/kg dry	184	51.0	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 184		µg/kg dry	184	54.3	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 184		µg/kg dry	184	52.6	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 184		µg/kg dry	184	51.4	1	"	"	"	"	"	X
85-01-8	Phenanthrene	**432**		µg/kg dry	184	49.1	1	"	"	"	"	"	X
129-00-0	Pyrene	**1,160**		µg/kg dry	184	44.5	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*68*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*74*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.2		µg/kg dry	21.2	15.8	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 21.2		µg/kg dry	21.2	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.2		µg/kg dry	21.2	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.2		µg/kg dry	21.2	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**638**		µg/kg dry	21.2	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.2		µg/kg dry	21.2	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.75	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.1		mg/kg dry	29.1	1.5	1	CT ETPH	12-Aug-13	12-Aug-13	SEP	1319147	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-43 (3-4)-1 SB74662-23	60225155	Soil	08-Aug-13 10:54	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 29.1		mg/kg dry	29.1	2.9	1	CT ETPH	12-Aug-13	12-Aug-13	SEP	1319147	
68476-31-3	Fuel Oil #4	< 29.1		mg/kg dry	29.1	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.1		mg/kg dry	29.1	7.3	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.1		mg/kg dry	29.1	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.1		mg/kg dry	29.1	7.3	1	"	"	"	"	"	
	Unidentified	**61.2**		mg/kg dry	29.1	7.3	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	29.1	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**61.2**		mg/kg dry	29.1	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**61.2**		mg/kg dry	29.1	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*83*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**10.4**		mg/kg dry	1.57	0.683	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**94.4**		mg/kg dry	1.57	0.578	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-42 (0.5-1)-1	60225155	Soil	08-Aug-13 10:56	08-Aug-13
SB74662-24				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.8		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.8		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.58	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.83**		mg/kg dry	1.51	0.656	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**48.8**		mg/kg dry	1.51	0.555	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.5**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-42 (2-3)-1 SB74662-25	60225155	Soil	08-Aug-13 10:58	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.0		µg/kg dry	22.0	16.4	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 22.0		µg/kg dry	22.0	19.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.0		µg/kg dry	22.0	14.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.0		µg/kg dry	22.0	13.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**392**		µg/kg dry	22.0	11.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.0		µg/kg dry	22.0	18.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.0		µg/kg dry	22.0	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.08	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.97**		mg/kg dry	1.69	0.735	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**17.6**		mg/kg dry	1.69	0.622	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**88.3**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-42 (4-5)-1 SB74662-26	60225155	Soil	08-Aug-13 11:00	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 220	R01	µg/kg dry	220	164	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 220	R01	µg/kg dry	220	198	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 220	R01	µg/kg dry	220	141	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 220	R01	µg/kg dry	220	132	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 220	R01	µg/kg dry	220	114	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.0		µg/kg dry	22.0	18.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.0		µg/kg dry	22.0	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.07	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.37**		mg/kg dry	1.60	0.699	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**15.1**		mg/kg dry	1.60	0.591	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-41 (0.5-1)-1 SB74662-27	60225155	Soil	08-Aug-13 11:02	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.4		µg/kg dry	20.4	15.2	1	SW846 8082A	09-Aug-13	13-Aug-13	IMR	1319101	X
11104-28-2	Aroclor-1221	< 20.4		µg/kg dry	20.4	18.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.4		µg/kg dry	20.4	13.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.4		µg/kg dry	20.4	12.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.4		µg/kg dry	20.4	10.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.4		µg/kg dry	20.4	17.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.4		µg/kg dry	20.4	12.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.4		µg/kg dry	20.4	19.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.4		µg/kg dry	20.4	8.41	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.71**		mg/kg dry	1.36	0.594	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**20.1**		mg/kg dry	1.36	0.503	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-41 (1-2)-1 SB74662-28	60225155	Soil	08-Aug-13 11:04	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.1		µg/kg dry	21.1	15.7	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 21.1		µg/kg dry	21.1	19.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.1		µg/kg dry	21.1	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.1		µg/kg dry	21.1	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**396**		µg/kg dry	21.1	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.1		µg/kg dry	21.1	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.1		µg/kg dry	21.1	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.1		µg/kg dry	21.1	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.1		µg/kg dry	21.1	8.68	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.20**		mg/kg dry	1.38	0.603	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**25.0**		mg/kg dry	1.38	0.510	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-41 (2-3)-1 SB74662-29	60225155	Soil	08-Aug-13 11:06	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 186		µg/kg dry	186	47.4	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 186		µg/kg dry	186	51.6	1	"	"	"	"	"	X
120-12-7	Anthracene	< 186		µg/kg dry	186	47.5	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 186		µg/kg dry	186	49.9	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 186		µg/kg dry	186	50.7	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 186		µg/kg dry	186	40.5	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 186		µg/kg dry	186	51.8	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 186		µg/kg dry	186	66.0	1	"	"	"	"	"	X
218-01-9	Chrysene	< 186		µg/kg dry	186	52.6	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 186		µg/kg dry	186	48.1	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 186		µg/kg dry	186	52.1	1	"	"	"	"	"	X
86-73-7	Fluorene	< 186		µg/kg dry	186	51.8	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 186		µg/kg dry	186	51.7	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 186		µg/kg dry	186	55.0	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 186		µg/kg dry	186	53.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 186		µg/kg dry	186	52.0	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 186		µg/kg dry	186	49.7	1	"	"	"	"	"	X
129-00-0	Pyrene	< 186		µg/kg dry	186	45.0	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*81*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*91*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.6		µg/kg dry	20.6	15.4	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 20.6		µg/kg dry	20.6	18.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.6		µg/kg dry	20.6	13.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.6		µg/kg dry	20.6	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**199**		µg/kg dry	20.6	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.6		µg/kg dry	20.6	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.49	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.9		mg/kg dry	28.9	1.4	1	CT ETPH	12-Aug-13	13-Aug-13	SEP	1319147	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-41 (2-3)-1 SB74662-29	60225155	Soil	08-Aug-13 11:06	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 28.9		mg/kg dry	28.9	2.9	1	CT ETPH	12-Aug-13	13-Aug-13	SEP	1319147	
68476-31-3	Fuel Oil #4	< 28.9		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.9		mg/kg dry	28.9	7.2	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.9		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.9		mg/kg dry	28.9	7.2	1	"	"	"	"	"	
	Unidentified	**72.4**		mg/kg dry	28.9	7.2	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**72.4**		mg/kg dry	28.9	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**72.4**		mg/kg dry	28.9	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*84*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.96**		mg/kg dry	1.61	0.700	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**30.6**		mg/kg dry	1.61	0.592	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**88.5**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-40 (0-0.5)-1 SB74662-30	60225155	Soil	08-Aug-13 11:08	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.3		µg/kg dry	20.3	15.1	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 20.3		µg/kg dry	20.3	18.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.3		µg/kg dry	20.3	13.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.3		µg/kg dry	20.3	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.3		µg/kg dry	20.3	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.3		µg/kg dry	20.3	16.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.3		µg/kg dry	20.3	12.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.3		µg/kg dry	20.3	18.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.3		µg/kg dry	20.3	8.36	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.38**		mg/kg dry	1.56	0.681	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**20.5**		mg/kg dry	1.56	0.576	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-40 (2-3)-1 SB74662-31	60225155	Soil	08-Aug-13 11:10	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.6		µg/kg dry	22.6	16.9	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 22.6		µg/kg dry	22.6	20.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.6		µg/kg dry	22.6	14.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.6		µg/kg dry	22.6	13.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**173**		µg/kg dry	22.6	11.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.6		µg/kg dry	22.6	18.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.6		µg/kg dry	22.6	14.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.6		µg/kg dry	22.6	21.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.6		µg/kg dry	22.6	9.33	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.07**		mg/kg dry	1.71	0.744	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**13.2**		mg/kg dry	1.71	0.629	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**87.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-40 (4-5)-1 SB74662-32	60225155	Soil	08-Aug-13 11:12	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 320		µg/kg dry	320	81.2	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 320		µg/kg dry	320	88.5	1	"	"	"	"	"	X
120-12-7	Anthracene	< 320		µg/kg dry	320	81.4	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 320		µg/kg dry	320	85.5	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 320		µg/kg dry	320	87.0	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 320		µg/kg dry	320	69.4	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 320		µg/kg dry	320	88.9	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 320		µg/kg dry	320	113	1	"	"	"	"	"	X
218-01-9	Chrysene	< 320		µg/kg dry	320	90.2	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 320		µg/kg dry	320	82.5	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 320		µg/kg dry	320	89.3	1	"	"	"	"	"	X
86-73-7	Fluorene	< 320		µg/kg dry	320	88.8	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 320		µg/kg dry	320	88.6	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 320		µg/kg dry	320	94.3	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 320		µg/kg dry	320	91.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 320		µg/kg dry	320	89.2	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 320		µg/kg dry	320	85.3	1	"	"	"	"	"	X
129-00-0	Pyrene	< 320		µg/kg dry	320	77.2	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*59*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*60*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 371	R01	µg/kg dry	371	277	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 371	R01	µg/kg dry	371	335	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 371	R01	µg/kg dry	371	238	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 371	R01	µg/kg dry	371	223	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 371	R01	µg/kg dry	371	193	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 37.1		µg/kg dry	37.1	31.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 37.1		µg/kg dry	37.1	23.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 37.1		µg/kg dry	37.1	34.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 37.1		µg/kg dry	37.1	15.3	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 50.7		mg/kg dry	50.7	2.5	1	CT ETPH	12-Aug-13	13-Aug-13	SEP	1319147	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-40 (4-5)-1 SB74662-32	60225155	Soil	08-Aug-13 11:12	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 50.7		mg/kg dry	50.7	5.1	1	CT ETPH	12-Aug-13	13-Aug-13	SEP	1319147	
68476-31-3	Fuel Oil #4	< 50.7		mg/kg dry	50.7	5.1	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 50.7		mg/kg dry	50.7	12.7	1	"	"	"	"	"	
M09800000	Motor Oil	< 50.7		mg/kg dry	50.7	5.1	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 50.7		mg/kg dry	50.7	12.7	1	"	"	"	"	"	
	Unidentified	< 50.7		mg/kg dry	50.7	12.7	1	"	"	"	"	"	
	Other Oil	< 50.7		mg/kg dry	50.7	5.1	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 50.7		mg/kg dry	50.7	5.1	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 50.7		mg/kg dry	50.7	4.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*75*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**6.79**		mg/kg dry	2.68	1.17	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**63.1**		mg/kg dry	2.68	0.989	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**51.3**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-40 (5-7)-1 SB74662-33	60225155	Soil	08-Aug-13 11:14	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 44.7		µg/kg dry	44.7	33.4	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 44.7		µg/kg dry	44.7	40.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 44.7		µg/kg dry	44.7	28.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 44.7		µg/kg dry	44.7	26.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 44.7		µg/kg dry	44.7	23.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 44.7		µg/kg dry	44.7	37.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 44.7		µg/kg dry	44.7	27.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 44.7		µg/kg dry	44.7	41.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 44.7		µg/kg dry	44.7	18.4	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**44.4**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-39 (0.5-1)-1 SB74662-34	60225155	Soil	08-Aug-13 11:15	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.7		µg/kg dry	21.7	16.2	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 21.7		µg/kg dry	21.7	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.7		µg/kg dry	21.7	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.7		µg/kg dry	21.7	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.7		µg/kg dry	21.7	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.7		µg/kg dry	21.7	18.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.7		µg/kg dry	21.7	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.7		µg/kg dry	21.7	20.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.7		µg/kg dry	21.7	8.94	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.87**		mg/kg dry	1.51	0.658	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**4.99**		mg/kg dry	1.51	0.557	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-39 (1-2)-1 SB74662-35	60225155	Soil	08-Aug-13 11:17	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.7		µg/kg dry	20.7	15.5	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 20.7		µg/kg dry	20.7	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.7		µg/kg dry	20.7	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.7		µg/kg dry	20.7	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.7		µg/kg dry	20.7	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.7		µg/kg dry	20.7	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.7		µg/kg dry	20.7	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.7		µg/kg dry	20.7	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.7		µg/kg dry	20.7	8.55	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.52**		mg/kg dry	1.39	0.607	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**9.35**		mg/kg dry	1.39	0.514	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-39 (3-4)-1 SB74662-36	60225155	Soil	08-Aug-13 11:19	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 213	R01	µg/kg dry	213	159	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 213	R01	µg/kg dry	213	192	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 213	R01	µg/kg dry	213	137	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 213	R01	µg/kg dry	213	128	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 213	R01	µg/kg dry	213	111	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.79	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.10**		mg/kg dry	1.53	0.666	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**19.5**		mg/kg dry	1.53	0.563	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**86.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-38 (0-0.5)-1 SB74662-37	60225155	Soil	08-Aug-13 11:20	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.1		µg/kg dry	20.1	15.0	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 20.1		µg/kg dry	20.1	18.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.1		µg/kg dry	20.1	12.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.1		µg/kg dry	20.1	12.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.1		µg/kg dry	20.1	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.1		µg/kg dry	20.1	16.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.1		µg/kg dry	20.1	12.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.1		µg/kg dry	20.1	18.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.1		µg/kg dry	20.1	8.30	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.25**		mg/kg dry	1.59	0.693	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**4.93**		mg/kg dry	1.59	0.586	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-38 (2-3)-1 SB74662-38	60225155	Soil	08-Aug-13 11:22	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.6		µg/kg dry	20.6	15.4	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 20.6		µg/kg dry	20.6	18.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.6		µg/kg dry	20.6	13.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.6		µg/kg dry	20.6	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.6		µg/kg dry	20.6	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.6		µg/kg dry	20.6	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.50	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.16**		mg/kg dry	1.55	0.675	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**14.1**		mg/kg dry	1.55	0.570	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-38 (4-5)-1 SB74662-39	60225155	Soil	08-Aug-13 11:24	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 48.8	R01	µg/kg dry	48.8	36.5	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 48.8	R01	µg/kg dry	48.8	44.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 48.8	R01	µg/kg dry	48.8	31.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 48.8	R01	µg/kg dry	48.8	29.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 48.8	R01	µg/kg dry	48.8	25.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 24.4		µg/kg dry	24.4	20.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 24.4		µg/kg dry	24.4	15.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 24.4		µg/kg dry	24.4	22.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 24.4		µg/kg dry	24.4	10.1	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.79**		mg/kg dry	1.76	0.766	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**45.6**		mg/kg dry	1.76	0.647	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**80.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-37 (0.5-1)-1 SB74662-40	60225155	Soil	08-Aug-13 11:26	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.8		µg/kg dry	19.8	14.8	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 19.8		µg/kg dry	19.8	17.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.8		µg/kg dry	19.8	12.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.8		µg/kg dry	19.8	11.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.8		µg/kg dry	19.8	10.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.8		µg/kg dry	19.8	16.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.8		µg/kg dry	19.8	12.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.8		µg/kg dry	19.8	18.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.8		µg/kg dry	19.8	8.15	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.02**		mg/kg dry	1.54	0.673	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**11.0**		mg/kg dry	1.54	0.569	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.4**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319079	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-37 (2-3)-1 SB74662-41	60225155	Soil	08-Aug-13 11:28	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 45.2	R01	µg/kg dry	45.2	33.8	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 45.2	R01	µg/kg dry	45.2	40.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 45.2	R01	µg/kg dry	45.2	29.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 45.2	R01	µg/kg dry	45.2	27.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 45.2	R01	µg/kg dry	45.2	23.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.6		µg/kg dry	22.6	18.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.6		µg/kg dry	22.6	14.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.6		µg/kg dry	22.6	21.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.6		µg/kg dry	22.6	9.33	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.43**		mg/kg dry	1.59	0.691	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**24.3**		mg/kg dry	1.59	0.585	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**87.3**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-37 (4-5)-1	60225155	Soil	08-Aug-13 11:30	08-Aug-13
SB74662-42				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 175		µg/kg dry	175	44.6	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 175		µg/kg dry	175	48.6	1	"	"	"	"	"	X
120-12-7	Anthracene	< 175		µg/kg dry	175	44.7	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 175		µg/kg dry	175	46.9	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 175		µg/kg dry	175	47.8	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 175		µg/kg dry	175	38.1	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 175		µg/kg dry	175	48.8	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 175		µg/kg dry	175	62.1	1	"	"	"	"	"	X
218-01-9	Chrysene	< 175		µg/kg dry	175	49.5	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 175		µg/kg dry	175	45.3	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 175		µg/kg dry	175	49.0	1	"	"	"	"	"	X
86-73-7	Fluorene	< 175		µg/kg dry	175	48.8	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 175		µg/kg dry	175	48.6	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 175		µg/kg dry	175	51.7	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 175		µg/kg dry	175	50.1	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 175		µg/kg dry	175	48.9	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 175		µg/kg dry	175	46.8	1	"	"	"	"	"	X
129-00-0	Pyrene	< 175		µg/kg dry	175	42.4	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*75*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*86*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.6		µg/kg dry	20.6	15.4	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 20.6		µg/kg dry	20.6	18.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.6		µg/kg dry	20.6	13.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.6		µg/kg dry	20.6	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.6		µg/kg dry	20.6	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.6		µg/kg dry	20.6	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.49	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.0		mg/kg dry	28.0	1.4	1	CT ETPH	13-Aug-13	14-Aug-13	SEP	1319297	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-37 (4-5)-1 SB74662-42	60225155	Soil	08-Aug-13 11:30	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 28.0		mg/kg dry	28.0	2.8	1	CT ETPH	13-Aug-13	14-Aug-13	SEP	1319297	
68476-31-3	Fuel Oil #4	< 28.0		mg/kg dry	28.0	2.8	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.0		mg/kg dry	28.0	7.0	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.0		mg/kg dry	28.0	2.8	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.0		mg/kg dry	28.0	7.0	1	"	"	"	"	"	
	Unidentified	< 28.0		mg/kg dry	28.0	7.0	1	"	"	"	"	"	
	Other Oil	< 28.0		mg/kg dry	28.0	2.8	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 28.0		mg/kg dry	28.0	2.8	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 28.0		mg/kg dry	28.0	2.6	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*78*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.69**		mg/kg dry	1.51	0.657	1	SW846 6010C	12-Aug-13	14-Aug-13	LR	1319237	X
7439-92-1	Lead	**6.36**		mg/kg dry	1.51	0.556	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-36 (0-0.5)-1 SB74662-43	60225155	Soil	08-Aug-13 11:40	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.8		µg/kg dry	19.8	14.8	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 19.8		µg/kg dry	19.8	17.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.8		µg/kg dry	19.8	12.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.8		µg/kg dry	19.8	11.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.8		µg/kg dry	19.8	10.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.8		µg/kg dry	19.8	16.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.8		µg/kg dry	19.8	12.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.8		µg/kg dry	19.8	18.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.8		µg/kg dry	19.8	8.18	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.81**		mg/kg dry	1.54	0.672	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**6.63**		mg/kg dry	1.54	0.568	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-36 (1-2)-1 SB74662-44	60225155	Soil	08-Aug-13 11:42	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 45.1	R01	µg/kg dry	45.1	33.7	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 45.1	R01	µg/kg dry	45.1	40.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 45.1	R01	µg/kg dry	45.1	28.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 45.1	R01	µg/kg dry	45.1	27.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 45.1	R01	µg/kg dry	45.1	23.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.5		µg/kg dry	22.5	18.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.5		µg/kg dry	22.5	14.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.5		µg/kg dry	22.5	21.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.5		µg/kg dry	22.5	9.30	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**10.4**		mg/kg dry	1.62	0.707	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**73.7**		mg/kg dry	1.62	0.598	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**85.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-36 (3-4)-1 SB74662-45	60225155	Soil	08-Aug-13 11:45	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	15.9	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**93.9**		µg/kg dry	21.3	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.80	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.63**		mg/kg dry	1.58	0.690	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**14.8**		mg/kg dry	1.58	0.583	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-36 (5-7)-1 SB74662-46	60225155	Soil	08-Aug-13 11:47	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.9		µg/kg dry	20.9	15.6	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 20.9		µg/kg dry	20.9	18.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.9		µg/kg dry	20.9	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.9		µg/kg dry	20.9	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**77.5**		µg/kg dry	20.9	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.9		µg/kg dry	20.9	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.9		µg/kg dry	20.9	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.9		µg/kg dry	20.9	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.9		µg/kg dry	20.9	8.64	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-34 (0.5-1)-1 SB74662-47	60225155	Soil	08-Aug-13 11:50	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.6		µg/kg dry	20.6	15.4	1	SW846 8082A	09-Aug-13	14-Aug-13	IMR	1319102	X
11104-28-2	Aroclor-1221	< 20.6		µg/kg dry	20.6	18.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.6		µg/kg dry	20.6	13.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.6		µg/kg dry	20.6	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**74.1**		µg/kg dry	20.6	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.6		µg/kg dry	20.6	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.49	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.38**		mg/kg dry	1.64	0.714	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**18.0**		mg/kg dry	1.64	0.603	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-34 (2-3)-1 SB74662-48	60225155	Soil	08-Aug-13 11:52	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.6		µg/kg dry	20.6	15.4	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 20.6		µg/kg dry	20.6	18.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.6		µg/kg dry	20.6	13.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.6		µg/kg dry	20.6	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**130**		µg/kg dry	20.6	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.6		µg/kg dry	20.6	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.48	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*40*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.69**		mg/kg dry	1.40	0.610	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**52.0**		mg/kg dry	1.40	0.515	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-34 (4-5)-1 SB74662-49	60225155	Soil	08-Aug-13 11:54	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.9		µg/kg dry	22.9	17.1	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 22.9		µg/kg dry	22.9	20.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.9		µg/kg dry	22.9	14.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.9		µg/kg dry	22.9	13.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.9		µg/kg dry	22.9	11.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.9		µg/kg dry	22.9	19.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.9		µg/kg dry	22.9	14.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.9		µg/kg dry	22.9	21.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.9		µg/kg dry	22.9	9.44	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.00**		mg/kg dry	1.50	0.652	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**12.2**		mg/kg dry	1.50	0.551	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**86.0**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-34 (8-9)-1 SB74662-50	60225155	Soil	08-Aug-13 11:56	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 28.3		µg/kg dry	28.3	21.2	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 28.3		µg/kg dry	28.3	25.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 28.3		µg/kg dry	28.3	18.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 28.3		µg/kg dry	28.3	17.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 28.3		µg/kg dry	28.3	14.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 28.3		µg/kg dry	28.3	23.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 28.3		µg/kg dry	28.3	17.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 28.3		µg/kg dry	28.3	26.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 28.3		µg/kg dry	28.3	11.7	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**68.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-25 (0.5-1)-1 SB74662-51	60225155	Soil	08-Aug-13 12:30	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.6		µg/kg dry	20.6	15.4	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 20.6		µg/kg dry	20.6	18.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.6		µg/kg dry	20.6	13.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.6		µg/kg dry	20.6	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.6		µg/kg dry	20.6	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.6		µg/kg dry	20.6	12.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.48	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*40*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*45*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.88**		mg/kg dry	1.34	0.585	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**22.2**		mg/kg dry	1.34	0.494	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**95.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-25 (1-2)-1 SB74662-52	60225155	Soil	08-Aug-13 12:32	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.3		µg/kg dry	20.3	15.1	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 20.3		µg/kg dry	20.3	18.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.3		µg/kg dry	20.3	13.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.3		µg/kg dry	20.3	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.3		µg/kg dry	20.3	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.3		µg/kg dry	20.3	16.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.3		µg/kg dry	20.3	12.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.3		µg/kg dry	20.3	18.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.3		µg/kg dry	20.3	8.36	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.72**		mg/kg dry	1.50	0.655	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**15.4**		mg/kg dry	1.50	0.554	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**95.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-25 (4-5)-1 SB74662-53	60225155	Soil	08-Aug-13 12:34	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 23.0		µg/kg dry	23.0	17.2	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 23.0		µg/kg dry	23.0	20.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.0		µg/kg dry	23.0	14.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.0		µg/kg dry	23.0	13.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**309**		µg/kg dry	23.0	12.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.0		µg/kg dry	23.0	19.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.0		µg/kg dry	23.0	14.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.0		µg/kg dry	23.0	21.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.0		µg/kg dry	23.0	9.50	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.00**		mg/kg dry	1.73	0.755	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**30.1**		mg/kg dry	1.73	0.639	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**84.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-26 (0.5-1)-1 SB74662-54	60225155	Soil	08-Aug-13 13:40	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.8		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.8		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.57	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.74**		mg/kg dry	1.46	0.639	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**39.2**		mg/kg dry	1.46	0.540	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**95.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-26 (2-3)-1 SB74662-55	60225155	Soil	08-Aug-13 13:42	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 227	R01	µg/kg dry	227	170	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 227	R01	µg/kg dry	227	205	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 227	R01	µg/kg dry	227	146	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 227	R01	µg/kg dry	227	137	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 227	R01	µg/kg dry	227	118	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.7		µg/kg dry	22.7	19.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.7		µg/kg dry	22.7	14.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.7		µg/kg dry	22.7	21.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.7		µg/kg dry	22.7	9.38	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.06**		mg/kg dry	1.65	0.719	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**27.6**		mg/kg dry	1.65	0.608	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**86.2**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-26 (4-5)-1 SB74662-56	60225155	Soil	08-Aug-13 13:44	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 234	R01	µg/kg dry	234	174	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 234	R01	µg/kg dry	234	210	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 234	R01	µg/kg dry	234	150	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 234	R01	µg/kg dry	234	140	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 234	R01	µg/kg dry	234	121	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.4		µg/kg dry	23.4	19.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**35.0**		µg/kg dry	23.4	11.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.4		µg/kg dry	23.4	21.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.4		µg/kg dry	23.4	9.63	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*18300*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**8.08**		mg/kg dry	1.53	0.667	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**123**		mg/kg dry	1.53	0.564	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**84.2**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-27 (0-0.5)-1 SB74662-57	60225155	Soil	08-Aug-13 13:50	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.3		µg/kg dry	20.3	15.2	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 20.3		µg/kg dry	20.3	18.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.3		µg/kg dry	20.3	13.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.3		µg/kg dry	20.3	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.3		µg/kg dry	20.3	10.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.3		µg/kg dry	20.3	16.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.3		µg/kg dry	20.3	12.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.3		µg/kg dry	20.3	18.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.3		µg/kg dry	20.3	8.38	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.23**		mg/kg dry	1.51	0.660	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**13.2**		mg/kg dry	1.51	0.558	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**95.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-27 (1-2)-1 SB74662-58	60225155	Soil	08-Aug-13 13:52	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.0		µg/kg dry	22.0	16.5	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 22.0		µg/kg dry	22.0	19.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.0		µg/kg dry	22.0	14.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.0		µg/kg dry	22.0	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.0		µg/kg dry	22.0	11.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.0		µg/kg dry	22.0	18.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.0		µg/kg dry	22.0	13.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.09	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.97**		mg/kg dry	1.65	0.721	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**10.7**		mg/kg dry	1.65	0.610	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-27 (3-4)-1 SB74662-59	60225155	Soil	08-Aug-13 13:54	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.3		µg/kg dry	22.3	16.6	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 22.3		µg/kg dry	22.3	20.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.3		µg/kg dry	22.3	14.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.3		µg/kg dry	22.3	13.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.3		µg/kg dry	22.3	11.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.3		µg/kg dry	22.3	18.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.3		µg/kg dry	22.3	13.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.3		µg/kg dry	22.3	20.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.3		µg/kg dry	22.3	9.18	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.18**		mg/kg dry	1.52	0.664	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**14.5**		mg/kg dry	1.52	0.561	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**88.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-28 (0.5-1)-1 SB74662-60	60225155	Soil	08-Aug-13 13:55	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.6		µg/kg dry	20.6	15.4	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 20.6		µg/kg dry	20.6	18.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.6		µg/kg dry	20.6	13.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.6		µg/kg dry	20.6	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.6		µg/kg dry	20.6	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.6		µg/kg dry	20.6	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.51	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.84**		mg/kg dry	1.48	0.647	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**22.2**		mg/kg dry	1.48	0.547	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**95.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319080	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-28 (2-3)-1 SB74662-61	60225155	Soil	08-Aug-13 13:57	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 237	R01	µg/kg dry	237	177	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 237	R01	µg/kg dry	237	214	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 237	R01	µg/kg dry	237	152	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 237	R01	µg/kg dry	237	143	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 237	R01	µg/kg dry	237	123	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.7		µg/kg dry	23.7	19.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.7		µg/kg dry	23.7	14.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.7		µg/kg dry	23.7	22.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.7		µg/kg dry	23.7	9.79	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.09**		mg/kg dry	1.66	0.725	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**28.9**		mg/kg dry	1.66	0.613	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**84.2**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-28 (4-5)-1 SB74662-62	60225155	Soil	08-Aug-13 13:59	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 23.5		µg/kg dry	23.5	17.6	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 23.5		µg/kg dry	23.5	21.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.5		µg/kg dry	23.5	15.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.5		µg/kg dry	23.5	14.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 23.5		µg/kg dry	23.5	12.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.5		µg/kg dry	23.5	19.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.5		µg/kg dry	23.5	14.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.5		µg/kg dry	23.5	21.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.5		µg/kg dry	23.5	9.71	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.94**		mg/kg dry	1.59	0.692	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**12.3**		mg/kg dry	1.59	0.585	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**84.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-29 (0-0.5)-1 SB74662-63	60225155	Soil	08-Aug-13 14:02	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	15.9	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.3		µg/kg dry	21.3	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.79	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.95**		mg/kg dry	1.58	0.689	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**31.9**		mg/kg dry	1.58	0.582	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-29 (1-2)-1 SB74662-64	60225155	Soil	08-Aug-13 14:04	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 209	R01	µg/kg dry	209	156	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 209	R01	µg/kg dry	209	188	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 209	R01	µg/kg dry	209	134	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 209	R01	µg/kg dry	209	126	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 209	R01	µg/kg dry	209	109	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.9		µg/kg dry	20.9	17.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.9		µg/kg dry	20.9	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.9		µg/kg dry	20.9	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.9		µg/kg dry	20.9	8.62	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*20600*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.13**		mg/kg dry	1.51	0.660	1	SW846 6010C	13-Aug-13	15-Aug-13	tbc	1319238	X
7439-92-1	Lead	**23.0**		mg/kg dry	1.51	0.558	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-29 (3-4)-1 SB74662-65	60225155	Soil	08-Aug-13 14:08	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.8		µg/kg dry	22.8	17.0	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 22.8		µg/kg dry	22.8	20.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.8		µg/kg dry	22.8	14.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.8		µg/kg dry	22.8	13.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**293**		µg/kg dry	22.8	11.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.8		µg/kg dry	22.8	19.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.8		µg/kg dry	22.8	14.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.8		µg/kg dry	22.8	21.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.8		µg/kg dry	22.8	9.41	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**6.41**		mg/kg dry	1.54	0.670	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**32.0**		mg/kg dry	1.54	0.567	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**85.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-30 (0.5-1)-1 SB74662-66	60225155	Soil	08-Aug-13 14:10	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.2		µg/kg dry	21.2	15.8	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 21.2		µg/kg dry	21.2	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.2		µg/kg dry	21.2	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.2		µg/kg dry	21.2	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.2		µg/kg dry	21.2	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.2		µg/kg dry	21.2	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.74	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.35**		mg/kg dry	1.37	0.599	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**42.9**		mg/kg dry	1.37	0.507	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-30 (2-3) SB74662-67	60225155	Soil	08-Aug-13 14:12	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.3		µg/kg dry	20.3	15.2	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319175	X
11104-28-2	Aroclor-1221	< 20.3		µg/kg dry	20.3	18.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.3		µg/kg dry	20.3	13.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.3		µg/kg dry	20.3	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.3		µg/kg dry	20.3	10.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.3		µg/kg dry	20.3	16.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.3		µg/kg dry	20.3	12.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.3		µg/kg dry	20.3	18.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.3		µg/kg dry	20.3	8.39	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.38**		mg/kg dry	1.45	0.633	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**22.9**		mg/kg dry	1.45	0.535	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-30 (3-4) SB74662-68	60225155	Soil	08-Aug-13 14:14	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 180		µg/kg dry	180	45.6	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 180		µg/kg dry	180	49.8	1	"	"	"	"	"	X
120-12-7	Anthracene	< 180		µg/kg dry	180	45.7	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**205**		µg/kg dry	180	48.1	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**222**		µg/kg dry	180	48.9	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**221**		µg/kg dry	180	39.0	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 180		µg/kg dry	180	49.9	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**207**		µg/kg dry	180	63.6	1	"	"	"	"	"	X
218-01-9	Chrysene	**209**		µg/kg dry	180	50.7	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 180		µg/kg dry	180	46.4	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**456**		µg/kg dry	180	50.2	1	"	"	"	"	"	X
86-73-7	Fluorene	< 180		µg/kg dry	180	49.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 180		µg/kg dry	180	49.8	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 180		µg/kg dry	180	53.0	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 180		µg/kg dry	180	51.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 180		µg/kg dry	180	50.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	**222**		µg/kg dry	180	47.9	1	"	"	"	"	"	X
129-00-0	Pyrene	**353**		µg/kg dry	180	43.4	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*85*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*79*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.9		µg/kg dry	20.9	15.6	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 20.9		µg/kg dry	20.9	18.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.9		µg/kg dry	20.9	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.9		µg/kg dry	20.9	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**207**		µg/kg dry	20.9	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.9		µg/kg dry	20.9	17.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.9		µg/kg dry	20.9	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.9		µg/kg dry	20.9	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.9		µg/kg dry	20.9	8.62	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.6		mg/kg dry	28.6	1.4	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319297	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-30 (3-4) SB74662-68	60225155	Soil	08-Aug-13 14:14	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 28.6		mg/kg dry	28.6	2.9	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319297	
68476-31-3	Fuel Oil #4	< 28.6		mg/kg dry	28.6	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.6		mg/kg dry	28.6	7.1	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.6		mg/kg dry	28.6	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.6		mg/kg dry	28.6	7.1	1	"	"	"	"	"	
	Unidentified	**76.7**		mg/kg dry	28.6	7.1	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	28.6	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**76.7**		mg/kg dry	28.6	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**76.7**		mg/kg dry	28.6	2.6	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*74*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.86**		mg/kg dry	1.50	0.654	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**27.8**		mg/kg dry	1.50	0.553	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-32 (0-0.5)-1 SB74662-69	60225155	Soil	08-Aug-13 14:20	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	13-Aug-13	14-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.8		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.8		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.56	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.52**		mg/kg dry	1.37	0.597	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**30.0**		mg/kg dry	1.37	0.505	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-32 (2-3)-1 SB74662-70	60225155	Soil	08-Aug-13 14:22	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 222	R01	µg/kg dry	222	166	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 222	R01	µg/kg dry	222	200	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 222	R01	µg/kg dry	222	142	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 222	R01	µg/kg dry	222	133	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 222	R01	µg/kg dry	222	115	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 222	R01	µg/kg dry	222	185	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.2		µg/kg dry	22.2	13.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.2		µg/kg dry	22.2	20.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.2		µg/kg dry	22.2	9.15	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.81**		mg/kg dry	1.58	0.689	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**14.2**		mg/kg dry	1.58	0.583	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.9**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-32 (4-5) SB74662-71	60225155	Soil	08-Aug-13 14:24	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 212	R01	µg/kg dry	212	158	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 212	R01	µg/kg dry	212	191	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 212	R01	µg/kg dry	212	136	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 212	R01	µg/kg dry	212	127	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 212	R01	µg/kg dry	212	110	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 212	R01	µg/kg dry	212	177	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.2		µg/kg dry	21.2	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.74	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.23**		mg/kg dry	1.54	0.673	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**14.6**		mg/kg dry	1.54	0.569	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.4**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-31 (0-0.5)-1 SB74662-72	60225155	Soil	08-Aug-13 14:36	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.7		µg/kg dry	20.7	15.5	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 20.7		µg/kg dry	20.7	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.7		µg/kg dry	20.7	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.7		µg/kg dry	20.7	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.7		µg/kg dry	20.7	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.7		µg/kg dry	20.7	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.7		µg/kg dry	20.7	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.7		µg/kg dry	20.7	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.7		µg/kg dry	20.7	8.55	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.64**		mg/kg dry	1.37	0.598	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**20.6**		mg/kg dry	1.37	0.506	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**95.5**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-31 (1-2)-1 SB74662-73	60225155	Soil	08-Aug-13 14:37	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 23.8		µg/kg dry	23.8	17.7	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 23.8		µg/kg dry	23.8	21.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.8		µg/kg dry	23.8	15.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.8		µg/kg dry	23.8	14.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 23.8		µg/kg dry	23.8	12.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	**1,000**		µg/kg dry	23.8	13.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.8		µg/kg dry	23.8	14.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.8		µg/kg dry	23.8	22.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.8		µg/kg dry	23.8	9.80	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.06**		mg/kg dry	1.60	0.699	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**86.0**		mg/kg dry	1.60	0.591	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**82.6**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-31 (3-4)-1 SB74662-74	60225155	Soil	08-Aug-13 14:38	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 191		µg/kg dry	191	48.5	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 191		µg/kg dry	191	52.9	1	"	"	"	"	"	X
120-12-7	Anthracene	< 191		µg/kg dry	191	48.7	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 191		µg/kg dry	191	51.1	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 191		µg/kg dry	191	52.0	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 191		µg/kg dry	191	41.5	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 191		µg/kg dry	191	53.1	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 191		µg/kg dry	191	67.7	1	"	"	"	"	"	X
218-01-9	Chrysene	< 191		µg/kg dry	191	53.9	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 191		µg/kg dry	191	49.3	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**236**		µg/kg dry	191	53.4	1	"	"	"	"	"	X
86-73-7	Fluorene	< 191		µg/kg dry	191	53.1	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 191		µg/kg dry	191	53.0	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 191		µg/kg dry	191	56.4	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 191		µg/kg dry	191	54.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 191		µg/kg dry	191	53.3	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 191		µg/kg dry	191	51.0	1	"	"	"	"	"	X
129-00-0	Pyrene	**222**		µg/kg dry	191	46.2	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*75*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*78*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.2		µg/kg dry	22.2	16.6	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 22.2		µg/kg dry	22.2	20.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.2		µg/kg dry	22.2	14.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.2		µg/kg dry	22.2	13.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.2		µg/kg dry	22.2	11.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**311**		µg/kg dry	22.2	18.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.2		µg/kg dry	22.2	13.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.2		µg/kg dry	22.2	20.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.2		µg/kg dry	22.2	9.17	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 30.9		mg/kg dry	30.9	1.5	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319297	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-31 (3-4)-1 SB74662-74	60225155	Soil	08-Aug-13 14:38	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 30.9		mg/kg dry	30.9	3.1	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319297	
68476-31-3	Fuel Oil #4	< 30.9		mg/kg dry	30.9	3.1	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 30.9		mg/kg dry	30.9	7.7	1	"	"	"	"	"	
M09800000	Motor Oil	< 30.9		mg/kg dry	30.9	3.1	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 30.9		mg/kg dry	30.9	7.7	1	"	"	"	"	"	
	Unidentified	**66.6**		mg/kg dry	30.9	7.7	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	30.9	3.1	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**66.6**		mg/kg dry	30.9	3.1	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**66.6**		mg/kg dry	30.9	2.9	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*77*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**8.85**		mg/kg dry	1.74	0.757	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**64.9**		mg/kg dry	1.74	0.640	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**86.1**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-33 (0.5-1)-1 SB74662-75	60225155	Soil	08-Aug-13 14:30	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.7		µg/kg dry	21.7	16.2	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 21.7		µg/kg dry	21.7	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.7		µg/kg dry	21.7	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.7		µg/kg dry	21.7	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.7		µg/kg dry	21.7	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.7		µg/kg dry	21.7	18.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.7		µg/kg dry	21.7	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.7		µg/kg dry	21.7	20.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.7		µg/kg dry	21.7	8.95	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.19**		mg/kg dry	1.46	0.635	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**21.8**		mg/kg dry	1.46	0.537	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.7**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-33 (2-3)-1 SB74662-76	60225155	Soil	08-Aug-13 14:32	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 182		µg/kg dry	182	46.3	1	SW846 8270D	12-Aug-13	14-Aug-13	MSL	1319150	X
208-96-8	Acenaphthylene	< 182		µg/kg dry	182	50.5	1	"	"	"	"	"	X
120-12-7	Anthracene	< 182		µg/kg dry	182	46.4	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 182		µg/kg dry	182	48.7	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 182		µg/kg dry	182	49.6	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 182		µg/kg dry	182	39.6	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 182		µg/kg dry	182	50.7	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 182		µg/kg dry	182	64.5	1	"	"	"	"	"	X
218-01-9	Chrysene	< 182		µg/kg dry	182	51.4	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 182		µg/kg dry	182	47.0	1	"	"	"	"	"	X
206-44-0	Fluoranthene	220		µg/kg dry	182	50.9	1	"	"	"	"	"	X
86-73-7	Fluorene	< 182		µg/kg dry	182	50.6	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 182		µg/kg dry	182	50.5	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 182		µg/kg dry	182	53.7	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 182		µg/kg dry	182	52.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 182		µg/kg dry	182	50.8	1	"	"	"	"	"	X
85-01-8	Phenanthrene	185		µg/kg dry	182	48.6	1	"	"	"	"	"	X
129-00-0	Pyrene	196		µg/kg dry	182	44.0	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*76*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*78*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.4		µg/kg dry	21.4	16.0	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 21.4		µg/kg dry	21.4	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.4		µg/kg dry	21.4	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.4		µg/kg dry	21.4	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.4		µg/kg dry	21.4	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	78.2		µg/kg dry	21.4	17.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.4		µg/kg dry	21.4	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.84	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.7		mg/kg dry	28.7	1.4	1	CT ETPH	13-Aug-13	14-Aug-13	SEP	1319297	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-33 (2-3)-1 SB74662-76	60225155	Soil	08-Aug-13 14:32	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 28.7		mg/kg dry	28.7	2.9	1	CT ETPH	13-Aug-13	14-Aug-13	SEP	1319297	
68476-31-3	Fuel Oil #4	< 28.7		mg/kg dry	28.7	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.7		mg/kg dry	28.7	7.2	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.7		mg/kg dry	28.7	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.7		mg/kg dry	28.7	7.2	1	"	"	"	"	"	
	Unidentified	**63.5**		mg/kg dry	28.7	7.2	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	28.7	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**63.5**		mg/kg dry	28.7	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**63.5**		mg/kg dry	28.7	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*58*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.67**		mg/kg dry	1.60	0.696	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**25.9**		mg/kg dry	1.60	0.588	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.5**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-33 (4-5)-1 SB74662-77	60225155	Soil	08-Aug-13 14:34	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 220	R01	µg/kg dry	220	164	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 220	R01	µg/kg dry	220	198	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 220	R01	µg/kg dry	220	141	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 220	R01	µg/kg dry	220	132	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 220	R01	µg/kg dry	220	114	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 220	R01	µg/kg dry	220	183	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.0		µg/kg dry	22.0	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.07	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.03**		mg/kg dry	1.48	0.644	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**12.2**		mg/kg dry	1.48	0.544	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-15 (0.5-1)-1 SB74662-78	60225155	Soil	08-Aug-13 14:40	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	16.1	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.6		µg/kg dry	21.6	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	**81.1**		µg/kg dry	21.6	12.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**37.8**		µg/kg dry	21.6	10.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.92	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.63**		mg/kg dry	1.52	0.664	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**20.0**		mg/kg dry	1.52	0.561	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**87.8**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-15 (4-5)-1 SB74662-79	60225155	Soil	08-Aug-13 14:42	08-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 223	R01	µg/kg dry	223	167	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 223	R01	µg/kg dry	223	201	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 223	R01	µg/kg dry	223	143	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 223	R01	µg/kg dry	223	134	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 223	R01	µg/kg dry	223	116	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 223	R01	µg/kg dry	223	186	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.3		µg/kg dry	22.3	13.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.3		µg/kg dry	22.3	20.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.3		µg/kg dry	22.3	9.22	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**8.57**		mg/kg dry	1.49	0.649	1	SW846 6010C	13-Aug-13	14-Aug-13	Ir	1319239	X
7439-92-1	Lead	**49.5**		mg/kg dry	1.49	0.549	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**87.3**		%			1	SM2540 G Mod.	09-Aug-13	09-Aug-13	DT	1319081	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319150 - SW846 3545A										
Blank (1319150-BLK1)					Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Acenaphthene	< 167		µg/kg wet	167						
Acenaphthylene	< 167		µg/kg wet	167						
Anthracene	< 167		µg/kg wet	167						
Benzo (a) anthracene	< 167		µg/kg wet	167						
Benzo (a) pyrene	< 167		µg/kg wet	167						
Benzo (b) fluoranthene	< 167		µg/kg wet	167						
Benzo (g,h,i) perylene	< 167		µg/kg wet	167						
Benzo (k) fluoranthene	< 167		µg/kg wet	167						
Chrysene	< 167		µg/kg wet	167						
Dibenzo (a,h) anthracene	< 167		µg/kg wet	167						
Fluoranthene	< 167		µg/kg wet	167						
Fluorene	< 167		µg/kg wet	167						
Indeno (1,2,3-cd) pyrene	< 167		µg/kg wet	167						
1-Methylnaphthalene	< 167		µg/kg wet	167						
2-Methylnaphthalene	< 167		µg/kg wet	167						
Naphthalene	< 167		µg/kg wet	167						
Phenanthrene	< 167		µg/kg wet	167						
Pyrene	< 167		µg/kg wet	167						
Surrogate: 2-Fluorobiphenyl	*1660*		µg/kg wet		*1670*		*100*	*30-130*		
Surrogate: Terphenyl-dl4	*1700*		µg/kg wet		*1670*		*102*	*30-130*		
LCS (1319150-BS1)					Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Acenaphthene	**1770**		µg/kg wet	167	1670		106	40-140		
Acenaphthylene	**1890**		µg/kg wet	167	1670		113	40-140		
Anthracene	**1870**		µg/kg wet	167	1670		112	40-140		
Benzo (a) anthracene	**1820**		µg/kg wet	167	1670		109	40-140		
Benzo (a) pyrene	**1820**		µg/kg wet	167	1670		109	40-140		
Benzo (b) fluoranthene	**1840**		µg/kg wet	167	1670		110	40-140		
Benzo (g,h,i) perylene	**1520**		µg/kg wet	167	1670		91	40-140		
Benzo (k) fluoranthene	**1770**		µg/kg wet	167	1670		106	40-140		
Chrysene	**1760**		µg/kg wet	167	1670		106	40-140		
Dibenzo (a,h) anthracene	**1650**		µg/kg wet	167	1670		99	40-140		
Fluoranthene	**1850**		µg/kg wet	167	1670		111	40-140		
Fluorene	**1780**		µg/kg wet	167	1670		107	40-140		
Indeno (1,2,3-cd) pyrene	**1700**		µg/kg wet	167	1670		102	40-140		
1-Methylnaphthalene	**1640**		µg/kg wet	167	1670		99	40-140		
2-Methylnaphthalene	**1870**		µg/kg wet	167	1670		112	40-140		
Naphthalene	**1780**		µg/kg wet	167	1670		107	40-140		
Phenanthrene	**1820**		µg/kg wet	167	1670		109	40-140		
Pyrene	**1850**		µg/kg wet	167	1670		111	40-140		
Surrogate: 2-Fluorobiphenyl	*1550*		µg/kg wet		*1670*		*93*	*30-130*		
Surrogate: Terphenyl-dl4	*1680*		µg/kg wet		*1670*		*101*	*30-130*		
Batch 1319408 - SW846 3545A										
Blank (1319408-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Acenaphthene	< 167		µg/kg wet	167						
Acenaphthylene	< 167		µg/kg wet	167						
Anthracene	< 167		µg/kg wet	167						
Benzo (a) anthracene	< 167		µg/kg wet	167						
Benzo (a) pyrene	< 167		µg/kg wet	167						
Benzo (b) fluoranthene	< 167		µg/kg wet	167						
Benzo (g,h,i) perylene	< 167		µg/kg wet	167						
Benzo (k) fluoranthene	< 167		µg/kg wet	167						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319408 - SW846 3545A										
Blank (1319408-BLK1)						Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Chrysene	< 167		µg/kg wet	167						
Dibenzo (a,h) anthracene	< 167		µg/kg wet	167						
Fluoranthene	< 167		µg/kg wet	167						
Fluorene	< 167		µg/kg wet	167						
Indeno (1,2,3-cd) pyrene	< 167		µg/kg wet	167						
1-Methylnaphthalene	< 167		µg/kg wet	167						
2-Methylnaphthalene	< 167		µg/kg wet	167						
Naphthalene	< 167		µg/kg wet	167						
Phenanthrene	< 167		µg/kg wet	167						
Pyrene	< 167		µg/kg wet	167						
Surrogate: 2-Fluorobiphenyl	*1640*		µg/kg wet		*1670*		*98*	*30-130*		
Surrogate: Terphenyl-dl4	*1860*		µg/kg wet		*1670*		*112*	*30-130*		
LCS (1319408-BS1)						Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Acenaphthene	**1900**		µg/kg wet	167	1670		114	40-140		
Acenaphthylene	**1910**		µg/kg wet	167	1670		115	40-140		
Anthracene	**1710**		µg/kg wet	167	1670		102	40-140		
Benzo (a) anthracene	**1770**		µg/kg wet	167	1670		106	40-140		
Benzo (a) pyrene	**1880**		µg/kg wet	167	1670		113	40-140		
Benzo (b) fluoranthene	**1780**		µg/kg wet	167	1670		107	40-140		
Benzo (g,h,i) perylene	**1790**		µg/kg wet	167	1670		107	40-140		
Benzo (k) fluoranthene	**1910**		µg/kg wet	167	1670		115	40-140		
Chrysene	**1810**		µg/kg wet	167	1670		109	40-140		
Dibenzo (a,h) anthracene	**1980**		µg/kg wet	167	1670		119	40-140		
Fluoranthene	**1760**		µg/kg wet	167	1670		106	40-140		
Fluorene	**1910**		µg/kg wet	167	1670		114	40-140		
Indeno (1,2,3-cd) pyrene	**1970**		µg/kg wet	167	1670		118	40-140		
1-Methylnaphthalene	**1550**		µg/kg wet	167	1670		93	40-140		
2-Methylnaphthalene	**1990**		µg/kg wet	167	1670		119	40-140		
Naphthalene	**1700**		µg/kg wet	167	1670		102	40-140		
Phenanthrene	**1640**		µg/kg wet	167	1670		99	40-140		
Pyrene	**1840**		µg/kg wet	167	1670		110	40-140		
Surrogate: 2-Fluorobiphenyl	*1540*		µg/kg wet		*1670*		*93*	*30-130*		
Surrogate: Terphenyl-dl4	*1720*		µg/kg wet		*1670*		*103*	*30-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319073 - SW846 3540C										
Blank (1319073-BLK1)					Prepared: 09-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
LCS (1319073-BS1)					Prepared: 09-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	**251**		µg/kg wet	20.0	250		100	40-140		
Aroclor-1016 [2C]	**224**		µg/kg wet	20.0	250		90	40-140		
Aroclor-1260	**202**		µg/kg wet	20.0	250		81	40-140		
Aroclor-1260 [2C]	**199**		µg/kg wet	20.0	250		80	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
LCS Dup (1319073-BSD1)					Prepared: 09-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	**248**		µg/kg wet	20.0	250		99	40-140	1	30
Aroclor-1016 [2C]	**235**		µg/kg wet	20.0	250		94	40-140	5	30
Aroclor-1260	**204**		µg/kg wet	20.0	250		82	40-140	1	30
Aroclor-1260 [2C]	**191**		µg/kg wet	20.0	250		76	40-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Duplicate (1319073-DUP1)			**Source: SB74662-07**		Prepared: 09-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1016 [2C]	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1221	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1221 [2C]	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1232	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1232 [2C]	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1242	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1242 [2C]	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1248	**29.2**		µg/kg dry	20.2		23.4			22	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319073 - SW846 3540C										
Duplicate (1319073-DUP1)			**Source: SB74662-07**			Prepared: 09-Aug-13 Analyzed: 13-Aug-13				
Aroclor-1248 [2C]	**29.2**		µg/kg dry	20.2		26.4			10	30
Aroclor-1254	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1254 [2C]	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1260	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1260 [2C]	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1262	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1262 [2C]	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1268	< 20.2		µg/kg dry	20.2		BRL				30
Aroclor-1268 [2C]	< 20.2		µg/kg dry	20.2		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*25.2*		µg/kg dry		*20.2*		*125*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*28.2*		µg/kg dry		*20.2*		*140*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*26.2*		µg/kg dry		*20.2*		*130*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*27.2*		µg/kg dry		*20.2*		*135*	*30-150*		
Matrix Spike (1319073-MS1)			**Source: SB74662-07**			Prepared: 09-Aug-13 Analyzed: 13-Aug-13				
Aroclor-1016	**270**		µg/kg dry	21.0	263	BRL	103	40-140		
Aroclor-1016 [2C]	**262**		µg/kg dry	21.0	263	BRL	100	40-140		
Aroclor-1260	**220**		µg/kg dry	21.0	263	BRL	84	40-140		
Aroclor-1260 [2C]	**215**		µg/kg dry	21.0	263	BRL	82	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.1*		µg/kg dry		*21.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg dry		*21.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.1*		µg/kg dry		*21.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*21.0*		µg/kg dry		*21.0*		*100*	*30-150*		
Matrix Spike Dup (1319073-MSD1)			**Source: SB74662-07**			Prepared: 09-Aug-13 Analyzed: 13-Aug-13				
Aroclor-1016	**242**		µg/kg dry	20.3	254	BRL	95	40-140	8	30
Aroclor-1016 [2C]	**243**		µg/kg dry	20.3	254	BRL	96	40-140	4	30
Aroclor-1260	**193**		µg/kg dry	20.3	254	BRL	76	40-140	10	30
Aroclor-1260 [2C]	**214**		µg/kg dry	20.3	254	BRL	84	40-140	3	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.3*		µg/kg dry		*20.3*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.3*		µg/kg dry		*20.3*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*19.3*		µg/kg dry		*20.3*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.3*		µg/kg dry		*20.3*		*95*	*30-150*		
Batch 1319101 - SW846 3540C										
Blank (1319101-BLK1)						Prepared: 09-Aug-13 Analyzed: 13-Aug-13				
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319101 - SW846 3540C										
Blank (1319101-BLK1)					Prepared: 09-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
LCS (1319101-BS1)					Prepared: 09-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	**236**		µg/kg wet	20.0	250		94	40-140		
Aroclor-1016 [2C]	**244**		µg/kg wet	20.0	250		98	40-140		
Aroclor-1260	**186**		µg/kg wet	20.0	250		74	40-140		
Aroclor-1260 [2C]	**202**		µg/kg wet	20.0	250		81	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
LCS Dup (1319101-BSD1)					Prepared: 09-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	**246**		µg/kg wet	20.0	250		98	40-140	4	30
Aroclor-1016 [2C]	**246**		µg/kg wet	20.0	250		98	40-140	0.8	30
Aroclor-1260	**196**		µg/kg wet	20.0	250		78	40-140	5	30
Aroclor-1260 [2C]	**202**		µg/kg wet	20.0	250		81	40-140	0	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*26.0*		µg/kg wet		*20.0*		*130*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Duplicate (1319101-DUP1)			**Source: SB74662-13**		Prepared: 09-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1016 [2C]	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1221	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1221 [2C]	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1232	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1232 [2C]	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1242	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1242 [2C]	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1248	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1248 [2C]	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1254	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1254 [2C]	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1260	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1260 [2C]	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1262	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1262 [2C]	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1268	< 22.0		µg/kg dry	22.0		BRL				30
Aroclor-1268 [2C]	< 22.0		µg/kg dry	22.0		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*25.3*		µg/kg dry		*22.0*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*26.4*		µg/kg dry		*22.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*25.3*		µg/kg dry		*22.0*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.9*		µg/kg dry		*22.0*		*95*	*30-150*		
Matrix Spike (1319101-MS1)			**Source: SB74662-13**		Prepared: 09-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	**263**		µg/kg dry	20.5	257	BRL	102	40-140		
Aroclor-1016 [2C]	**265**		µg/kg dry	20.5	257	BRL	103	40-140		
Aroclor-1260	**211**		µg/kg dry	20.5	257	BRL	82	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319101 - SW846 3540C										
Matrix Spike (1319101-MS1)			**Source: SB74662-13**			Prepared: 09-Aug-13 Analyzed: 13-Aug-13				
Aroclor-1260 [2C]	**209**		µg/kg dry	20.5	257	BRL	82	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.6*		µg/kg dry		*20.5*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.6*		µg/kg dry		*20.5*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*23.6*		µg/kg dry		*20.5*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.5*		µg/kg dry		*20.5*		*100*	*30-150*		
Matrix Spike Dup (1319101-MSD1)			**Source: SB74662-13**			Prepared: 09-Aug-13 Analyzed: 13-Aug-13				
Aroclor-1016	**256**		µg/kg dry	21.3	267	BRL	96	40-140	6	30
Aroclor-1016 [2C]	**271**		µg/kg dry	21.3	267	BRL	102	40-140	2	30
Aroclor-1260	**208**		µg/kg dry	21.3	267	BRL	78	40-140	5	30
Aroclor-1260 [2C]	**220**		µg/kg dry	21.3	267	BRL	82	40-140	1	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.4*		µg/kg dry		*21.3*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*23.5*		µg/kg dry		*21.3*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.6*		µg/kg dry		*21.3*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.3*		µg/kg dry		*21.3*		*95*	*30-150*		
Batch 1319102 - SW846 3540C										
Blank (1319102-BLK1)						Prepared: 09-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
LCS (1319102-BS1)						Prepared: 09-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1016	**249**		µg/kg wet	20.0	250		100	40-140		
Aroclor-1016 [2C]	**240**		µg/kg wet	20.0	250		96	40-140		
Aroclor-1260	**195**		µg/kg wet	20.0	250		78	40-140		
Aroclor-1260 [2C]	**223**		µg/kg wet	20.0	250		89	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
LCS Dup (1319102-BSD1)						Prepared: 09-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1016	**245**		µg/kg wet	20.0	250		98	40-140	2	30
Aroclor-1016 [2C]	**253**		µg/kg wet	20.0	250		101	40-140	5	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319102 - SW846 3540C										
LCS Dup (1319102-BSD1)					Prepared: 09-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1260	**195**		µg/kg wet	20.0	250		78	40-140	0	30
Aroclor-1260 [2C]	**219**		µg/kg wet	20.0	250		88	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Duplicate (1319102-DUP1)			**Source: SB74662-35**		Prepared: 09-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1016 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1221	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1221 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1232	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1232 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1242	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1242 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1248	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1248 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1254	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1254 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1260	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1260 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1262	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1262 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1268	< 21.0		µg/kg dry	21.0		BRL				30
Aroclor-1268 [2C]	< 21.0		µg/kg dry	21.0		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg dry		*21.0*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*30.4*		µg/kg dry		*21.0*		*145*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*19.9*		µg/kg dry		*21.0*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*21.0*		µg/kg dry		*21.0*		*100*	*30-150*		
Matrix Spike (1319102-MS1)			**Source: SB74662-35**		Prepared: 09-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**313**		µg/kg dry	21.9	274	BRL	114	40-140		
Aroclor-1016 [2C]	**280**		µg/kg dry	21.9	274	BRL	102	40-140		
Aroclor-1260	**219**		µg/kg dry	21.9	274	BRL	80	40-140		
Aroclor-1260 [2C]	**275**		µg/kg dry	21.9	274	BRL	100	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.0*		µg/kg dry		*21.9*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*30.7*		µg/kg dry		*21.9*		*140*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*23.0*		µg/kg dry		*21.9*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*27.4*		µg/kg dry		*21.9*		*125*	*30-150*		
Matrix Spike Dup (1319102-MSD1)			**Source: SB74662-35**		Prepared: 09-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**276**		µg/kg dry	20.3	254	BRL	109	40-140	5	30
Aroclor-1016 [2C]	**242**		µg/kg dry	20.3	254	BRL	95	40-140	7	30
Aroclor-1260	**204**		µg/kg dry	20.3	254	BRL	80	40-140	0.5	30
Aroclor-1260 [2C]	**245**		µg/kg dry	20.3	254	BRL	96	40-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.3*		µg/kg dry		*20.3*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*28.4*		µg/kg dry		*20.3*		*140*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.3*		µg/kg dry		*20.3*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*22.3*		µg/kg dry		*20.3*		*110*	*30-150*		
Batch 1319175 - SW846 3540C										
Blank (1319175-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319175 - SW846 3540C										
Blank (1319175-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
LCS (1319175-BS1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**237**		µg/kg wet	20.0	250		95	40-140		
Aroclor-1016 [2C]	**235**		µg/kg wet	20.0	250		94	40-140		
Aroclor-1260	**190**		µg/kg wet	20.0	250		76	40-140		
Aroclor-1260 [2C]	**206**		µg/kg wet	20.0	250		82	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
LCS Dup (1319175-BSD1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**235**		µg/kg wet	20.0	250		94	40-140	0.8	30
Aroclor-1016 [2C]	**231**		µg/kg wet	20.0	250		92	40-140	2	30
Aroclor-1260	**191**		µg/kg wet	20.0	250		76	40-140	0.5	30
Aroclor-1260 [2C]	**201**		µg/kg wet	20.0	250		80	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Duplicate (1319175-DUP1)			**Source: SB74662-48**		Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1016 [2C]	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1221	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1221 [2C]	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1232	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1232 [2C]	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1242	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1242 [2C]	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1248	**132**		µg/kg dry	20.7		130			2	30
Aroclor-1248 [2C]	**108**		µg/kg dry	20.7		105			3	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319175 - SW846 3540C										
Duplicate (1319175-DUP1)			**Source: SB74662-48**			Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1254	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1254 [2C]	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1260	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1260 [2C]	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1262	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1262 [2C]	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1268	< 20.7		µg/kg dry	20.7		BRL				30
Aroclor-1268 [2C]	< 20.7		µg/kg dry	20.7		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.8*		µg/kg dry		*20.7*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*13.5*		µg/kg dry		*20.7*		*65*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*16.6*		µg/kg dry		*20.7*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.7*		µg/kg dry		*20.7*		*100*	*30-150*		
Matrix Spike (1319175-MS1)			**Source: SB74662-51**			Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1016	**156**		µg/kg dry	20.6	257	BRL	61	40-140		
Aroclor-1016 [2C]	**154**		µg/kg dry	20.6	257	BRL	60	40-140		
Aroclor-1260	**120**		µg/kg dry	20.6	257	BRL	47	40-140		
Aroclor-1260 [2C]	**120**		µg/kg dry	20.6	257	BRL	47	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*14.4*		µg/kg dry		*20.6*		*70*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*15.4*		µg/kg dry		*20.6*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*11.3*		µg/kg dry		*20.6*		*55*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*11.3*		µg/kg dry		*20.6*		*55*	*30-150*		
Matrix Spike Dup (1319175-MSD1)			**Source: SB74662-51**			Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1016	**122**		µg/kg dry	20.6	257	BRL	48	40-140	24	30
Aroclor-1016 [2C]	**132**		µg/kg dry	20.6	257	BRL	51	40-140	16	30
Aroclor-1260	**104**		µg/kg dry	20.6	257	BRL	40	40-140	15	30
Aroclor-1260 [2C]	**107**		µg/kg dry	20.6	257	BRL	42	40-140	12	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*11.3*		µg/kg dry		*20.6*		*55*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*11.3*		µg/kg dry		*20.6*		*55*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*9.25*		µg/kg dry		*20.6*		*45*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*8.23*		µg/kg dry		*20.6*		*40*	*30-150*		
Batch 1319176 - SW846 3540C										
Blank (1319176-BLK1)						Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319176 - SW846 3540C										
Blank (1319176-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*12.0*		µg/kg wet		*20.0*		*60*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
LCS (1319176-BS1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**253**		µg/kg wet	20.0	250		101	40-140		
Aroclor-1016 [2C]	**234**		µg/kg wet	20.0	250		94	40-140		
Aroclor-1260	**171**		µg/kg wet	20.0	250		68	40-140		
Aroclor-1260 [2C]	**185**		µg/kg wet	20.0	250		74	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
LCS Dup (1319176-BSD1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**234**		µg/kg wet	20.0	250		94	40-140	8	30
Aroclor-1016 [2C]	**231**		µg/kg wet	20.0	250		92	40-140	1	30
Aroclor-1260	**176**		µg/kg wet	20.0	250		70	40-140	3	30
Aroclor-1260 [2C]	**183**		µg/kg wet	20.0	250		73	40-140	1	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
Duplicate (1319176-DUP1)			**Source: SB74662-75**		Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1016 [2C]	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1221	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1221 [2C]	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1232	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1232 [2C]	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1242	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1242 [2C]	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1248	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1248 [2C]	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1254	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1254 [2C]	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1260	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1260 [2C]	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1262	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1262 [2C]	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1268	< 21.7		µg/kg dry	21.7		BRL				30
Aroclor-1268 [2C]	< 21.7		µg/kg dry	21.7		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.7*		µg/kg dry		*21.7*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.8*		µg/kg dry		*21.7*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*16.3*		µg/kg dry		*21.7*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.4*		µg/kg dry		*21.7*		*80*	*30-150*		
Matrix Spike (1319176-MS1)			**Source: SB74662-75**		Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**233**		µg/kg dry	21.7	271	BRL	86	40-140		
Aroclor-1016 [2C]	**239**		µg/kg dry	21.7	271	BRL	88	40-140		
Aroclor-1260	**184**		µg/kg dry	21.7	271	BRL	68	40-140		
Aroclor-1260 [2C]	**217**		µg/kg dry	21.7	271	BRL	80	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319176 - SW846 3540C										
Matrix Spike (1319176-MS1)			**Source: SB74662-75**		Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.6*		µg/kg dry		*21.7*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.7*		µg/kg dry		*21.7*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.2*		µg/kg dry		*21.7*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.4*		µg/kg dry		*21.7*		*85*	*30-150*		
Matrix Spike Dup (1319176-MSD1)			**Source: SB74662-75**		Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**206**		µg/kg dry	21.7	271	BRL	76	40-140	12	30
Aroclor-1016 [2C]	**219**		µg/kg dry	21.7	271	BRL	81	40-140	9	30
Aroclor-1260	**167**		µg/kg dry	21.7	271	BRL	62	40-140	10	30
Aroclor-1260 [2C]	**190**		µg/kg dry	21.7	271	BRL	70	40-140	13	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.5*		µg/kg dry		*21.7*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.6*		µg/kg dry		*21.7*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.2*		µg/kg dry		*21.7*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.3*		µg/kg dry		*21.7*		*80*	*30-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319147 - SW846 3550C										
Blank (1319147-BLK1)					Prepared & Analyzed: 12-Aug-13					
Gasoline	< 26.6		mg/kg wet	26.6						
Fuel Oil #2	< 26.6		mg/kg wet	26.6						
Fuel Oil #4	< 26.6		mg/kg wet	26.6						
Fuel Oil #6	< 26.6		mg/kg wet	26.6						
Motor Oil	< 26.6		mg/kg wet	26.6						
Aviation Fuel	< 26.6		mg/kg wet	26.6						
Unidentified	< 26.6		mg/kg wet	26.6						
Other Oil	< 26.6		mg/kg wet	26.6						
Total Petroleum Hydrocarbons	< 26.6		mg/kg wet	26.6						
C9-C36 Aliphatic Hydrocarbons	< 26.6		mg/kg wet	26.6						
n-Nonadecane	< 0.005		mg/kg wet	0.005						
n-Nonane	< 0.005		mg/kg wet	0.005						
n-Decane	< 0.005		mg/kg wet	0.005						
n-Dodecane	< 0.005		mg/kg wet	0.005						
n-Tetradecane	< 0.005		mg/kg wet	0.005						
n-Hexadecane	< 0.005		mg/kg wet	0.005						
n-Octadecane	< 0.005		mg/kg wet	0.005						
n-Eicosane	< 0.005		mg/kg wet	0.005						
n-Docosane	< 0.005		mg/kg wet	0.005						
n-Tetracosane	< 0.005		mg/kg wet	0.005						
n-Hexacosane	< 0.005		mg/kg wet	0.005						
n-Octacosane	< 0.005		mg/kg wet	0.005						
n-Triacontane	< 0.005		mg/kg wet	0.005						
n-Hexatriacontane	< 0.005		mg/kg wet	0.005						
Surrogate: 1-Chlorooctadecane	*2.45*		mg/kg wet		*3.33*		*73*	*50-150*		
LCS (1319147-BS1)					Prepared & Analyzed: 12-Aug-13					
C9-C36 Aliphatic Hydrocarbons	**79.5**		mg/kg wet	26.6	93.3		85	60-120		
Surrogate: 1-Chlorooctadecane	*2.70*		mg/kg wet		*3.33*		*81*	*50-150*		
Batch 1319297 - SW846 3550C										
Blank (1319297-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Gasoline	< 26.6		mg/kg wet	26.6						
Fuel Oil #2	< 26.6		mg/kg wet	26.6						
Fuel Oil #4	< 26.6		mg/kg wet	26.6						
Fuel Oil #6	< 26.6		mg/kg wet	26.6						
Motor Oil	< 26.6		mg/kg wet	26.6						
Aviation Fuel	< 26.6		mg/kg wet	26.6						
Unidentified	< 26.6		mg/kg wet	26.6						
Other Oil	< 26.6		mg/kg wet	26.6						
Total Petroleum Hydrocarbons	< 26.6		mg/kg wet	26.6						
C9-C36 Aliphatic Hydrocarbons	< 26.6		mg/kg wet	26.6						
n-Nonadecane	< 0.005		mg/kg wet	0.005						
n-Nonane	< 0.005		mg/kg wet	0.005						
n-Decane	< 0.005		mg/kg wet	0.005						
n-Dodecane	< 0.005		mg/kg wet	0.005						
n-Tetradecane	< 0.005		mg/kg wet	0.005						
n-Hexadecane	< 0.005		mg/kg wet	0.005						
n-Octadecane	< 0.005		mg/kg wet	0.005						
n-Eicosane	< 0.005		mg/kg wet	0.005						
n-Docosane	< 0.005		mg/kg wet	0.005						
n-Tetracosane	< 0.005		mg/kg wet	0.005						
n-Hexacosane	< 0.005		mg/kg wet	0.005						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319297 - SW846 3550C										
Blank (1319297-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
n-Octacosane	< 0.005		mg/kg wet	0.005						
n-Triacontane	< 0.005		mg/kg wet	0.005						
n-Hexatriacontane	< 0.005		mg/kg wet	0.005						
Surrogate: 1-Chlorooctadecane	*2.38*		mg/kg wet		*3.33*		*71*	*50-150*		
LCS (1319297-BS1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
C9-C36 Aliphatic Hydrocarbons	**70.9**		mg/kg wet	26.6	93.3		76	60-120		
Surrogate: 1-Chlorooctadecane	*2.59*		mg/kg wet		*3.33*		*78*	*50-150*		
Batch 1319406 - SW846 3550C										
Blank (1319406-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Gasoline	< 26.6		mg/kg wet	26.6						
Fuel Oil #2	< 26.6		mg/kg wet	26.6						
Fuel Oil #4	< 26.6		mg/kg wet	26.6						
Fuel Oil #6	< 26.6		mg/kg wet	26.6						
Motor Oil	< 26.6		mg/kg wet	26.6						
Aviation Fuel	< 26.6		mg/kg wet	26.6						
Unidentified	< 26.6		mg/kg wet	26.6						
Other Oil	< 26.6		mg/kg wet	26.6						
Total Petroleum Hydrocarbons	< 26.6		mg/kg wet	26.6						
C9-C36 Aliphatic Hydrocarbons	< 26.6		mg/kg wet	26.6						
n-Nonadecane	< 0.005		mg/kg wet	0.005						
n-Nonane	< 0.005		mg/kg wet	0.005						
n-Decane	< 0.005		mg/kg wet	0.005						
n-Dodecane	< 0.005		mg/kg wet	0.005						
n-Tetradecane	< 0.005		mg/kg wet	0.005						
n-Hexadecane	< 0.005		mg/kg wet	0.005						
n-Octadecane	< 0.005		mg/kg wet	0.005						
n-Eicosane	< 0.005		mg/kg wet	0.005						
n-Docosane	< 0.005		mg/kg wet	0.005						
n-Tetracosane	< 0.005		mg/kg wet	0.005						
n-Hexacosane	< 0.005		mg/kg wet	0.005						
n-Octacosane	< 0.005		mg/kg wet	0.005						
n-Triacontane	< 0.005		mg/kg wet	0.005						
n-Hexatriacontane	< 0.005		mg/kg wet	0.005						
Surrogate: 1-Chlorooctadecane	*1.74*		mg/kg wet		*3.33*		*52*	*50-150*		
LCS (1319406-BS1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
C9-C36 Aliphatic Hydrocarbons	**59.2**		mg/kg wet	26.6	93.3		63	60-120		
Surrogate: 1-Chlorooctadecane	*1.97*		mg/kg wet		*3.33*		*59*	*50-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319236 - SW846 3050B										
Blank (1319236-BLK1)					Prepared: 12-Aug-13 Analyzed: 15-Aug-13					
Arsenic	< 1.45		mg/kg wet	1.45						
Lead	< 1.45		mg/kg wet	1.45						
Duplicate (1319236-DUP1)			**Source: SB74662-13**		Prepared: 12-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**1.27**	J	mg/kg dry	1.39		1.22			5	20
Lead	**4.70**		mg/kg dry	1.39		4.91			4	20
Matrix Spike (1319236-MS1)			**Source: SB74662-13**		Prepared: 12-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**102**		mg/kg dry	1.48	123	1.22	82	75-125		
Lead	**96.7**		mg/kg dry	1.48	123	4.91	75	75-125		
Matrix Spike Dup (1319236-MSD1)			**Source: SB74662-13**		Prepared: 12-Aug-13 Analyzed: 15-Aug-13					
Lead	**109**		mg/kg dry	1.61	134	4.91	77	75-125	12	20
Arsenic	**112**		mg/kg dry	1.61	134	1.22	83	75-125	10	20
Post Spike (1319236-PS1)			**Source: SB74662-13**		Prepared: 12-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**96.7**		mg/kg dry	1.43	119	1.22	80	80-120		
Reference (1319236-SRM1)					Prepared: 12-Aug-13 Analyzed: 15-Aug-13					
Lead	**57.5**	QM9	mg/kg wet	1.50	69.1		83	83.82-116.91		
Arsenic	**80.4**		mg/kg wet	1.50	92.5		87	82.97-117.58		
Reference (1319236-SRM2)					Prepared: 12-Aug-13 Analyzed: 15-Aug-13					
Lead	**59.8**		mg/kg wet	1.50	68.4		87	83.82-116.91		
Arsenic	**82.0**		mg/kg wet	1.50	91.6		89	82.97-117.58		
Batch 1319237 - SW846 3050B										
Blank (1319237-BLK1)					Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Lead	< 1.29		mg/kg wet	1.29						
Arsenic	< 1.29		mg/kg wet	1.29						
Duplicate (1319237-DUP1)			**Source: SB74662-24**		Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Arsenic	**1.65**		mg/kg dry	1.46		1.83			11	20
Lead	**46.8**		mg/kg dry	1.46		48.8			4	20
Matrix Spike (1319237-MS1)			**Source: SB74662-24**		Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Arsenic	**114**		mg/kg dry	1.57	130	1.83	86	75-125		
Lead	**147**		mg/kg dry	1.57	130	48.8	76	75-125		
Matrix Spike Dup (1319237-MSD1)			**Source: SB74662-24**		Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Arsenic	**101**		mg/kg dry	1.39	116	1.83	86	75-125	12	20
Lead	**131**	QM8	mg/kg dry	1.39	116	48.8	71	75-125	12	20
Post Spike (1319237-PS1)			**Source: SB74662-24**		Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Lead	**155**		mg/kg dry	1.51	125	48.8	85	80-120		
Arsenic	**123**		mg/kg dry	1.51	125	1.83	97	80-120		
Reference (1319237-SRM1)					Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Arsenic	**84.0**		mg/kg wet	1.50	91.9		91	82.97-117.58		
Lead	**59.0**		mg/kg wet	1.50	68.7		86	83.82-116.91		
Reference (1319237-SRM2)					Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Lead	**60.8**		mg/kg wet	1.50	70.2		87	83.82-116.91		
Arsenic	**86.4**		mg/kg wet	1.50	93.9		92	82.97-117.58		
Batch 1319238 - SW846 3050B										
Blank (1319238-BLK1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Arsenic	< 1.37		mg/kg wet	1.37						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319238 - SW846 3050B										
Blank (1319238-BLK1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Lead	< 1.37		mg/kg wet	1.37						
Duplicate (1319238-DUP1)			**Source: SB74662-54**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**1.63**		mg/kg dry	1.55		1.74			7	20
Lead	**39.8**		mg/kg dry	1.55		39.2			1	20
Matrix Spike (1319238-MS1)			**Source: SB74662-54**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Lead	**124**	QM8	mg/kg dry	1.37	115	39.2	74	75-125		
Arsenic	**96.5**		mg/kg dry	1.37	115	1.74	83	75-125		
Matrix Spike Dup (1319238-MSD1)			**Source: SB74662-54**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Lead	**127**		mg/kg dry	1.34	111	39.2	78	75-125	2	20
Arsenic	**93.5**		mg/kg dry	1.34	111	1.74	82	75-125	3	20
Post Spike (1319238-PS1)			**Source: SB74662-54**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**106**		mg/kg dry	1.46	122	1.74	85	80-120		
Lead	**138**		mg/kg dry	1.46	122	39.2	81	80-120		
Reference (1319238-SRM1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**86.4**		mg/kg wet	1.50	94.1		92	82.97-117.58		
Lead	**63.5**		mg/kg wet	1.50	70.3		90	83.82-116.91		
Reference (1319238-SRM2)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Lead	**62.7**		mg/kg wet	1.50	68.3		92	83.82-116.91		
Arsenic	**83.8**		mg/kg wet	1.50	91.4		92	82.97-117.58		
Batch 1319239 - SW846 3050B										
Blank (1319239-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Arsenic	< 1.43		mg/kg wet	1.43						
Lead	< 1.43		mg/kg wet	1.43						
Duplicate (1319239-DUP1)			**Source: SB74662-75**		Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Lead	**24.7**		mg/kg dry	1.49		21.8			12	20
Arsenic	**2.09**		mg/kg dry	1.49		2.19			5	20
Matrix Spike (1319239-MS1)			**Source: SB74662-75**		Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Arsenic	**101**		mg/kg dry	1.40	117	2.19	84	75-125		
Lead	**108**	QM9	mg/kg dry	1.40	117	21.8	74	75-125		
Matrix Spike Dup (1319239-MSD1)			**Source: SB74662-75**		Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Arsenic	**107**		mg/kg dry	1.46	121	2.19	87	75-125	7	20
Lead	**115**		mg/kg dry	1.46	121	21.8	77	75-125	6	20
Post Spike (1319239-PS1)			**Source: SB74662-75**		Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Arsenic	**113**		mg/kg dry	1.46	121	2.19	91	80-120		
Reference (1319239-SRM1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Arsenic	**84.6**		mg/kg wet	1.50	92.2		92	82.97-117.58		
Lead	**60.6**		mg/kg wet	1.50	68.9		88	83.82-116.91		
Reference (1319239-SRM2)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Lead	**59.9**		mg/kg wet	1.50	69.4		86	83.82-116.91		
Arsenic	**85.0**		mg/kg wet	1.50	92.9		92	82.97-117.58		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319078 - General Preparation										
Duplicate (1319078-DUP1)			**Source: SB74662-01**			Prepared & Analyzed: 09-Aug-13				
% Solids	**95.3**		%			95.0			0.3	20
Batch 1319079 - General Preparation										
Duplicate (1319079-DUP1)			**Source: SB74662-21**			Prepared & Analyzed: 09-Aug-13				
% Solids	**93.8**		%			94.7			0.9	20
Batch 1319080 - General Preparation										
Duplicate (1319080-DUP1)			**Source: SB74662-41**			Prepared & Analyzed: 09-Aug-13				
% Solids	**87.8**		%			87.3			0.7	20
Batch 1319081 - General Preparation										
Duplicate (1319081-DUP1)			**Source: SB74662-61**			Prepared & Analyzed: 09-Aug-13				
% Solids	**86.7**		%			84.2			3	20

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S304818				
Initial Cal Check (S304818-ICV1)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.270728E+08	-2.8	30
n-Nonadecane	3.561546E+08	3.675153E+08	3.2	30
n-Nonane	3.732875E+08	3.681448E+08	-1.4	30
n-Decane	3.651436E+08	3.651315E+08	-0.003	30
n-Dodecane	3.48398E+08	3.592906E+08	3.1	30
n-Tetradecane	3.588449E+08	3.665299E+08	2.1	30
n-Hexadecane	3.756608E+08	3.74015E+08	-0.4	30
n-Octadecane	3.775606E+08	3.791863E+08	0.4	30
n-Eicosane	3.825055E+08	3.811256E+08	-0.4	30
n-Docosane	3.815533E+08	3.84155E+08	0.7	30
n-Tetracosane	3.82641E+08	3.839073E+08	0.3	30
n-Hexacosane	3.864596E+08	3.855051E+08	-0.2	30
n-Octacosane	3.839113E+08	3.752925E+08	-2.2	30
n-Triacontane	3.841358E+08	3.849129E+08	0.2	30
n-Hexatriacontane	3.752619E+08	3.758944E+08	0.2	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S306464				
Initial Cal Check (S306464-ICV1)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.595381E+08	3.0	30
n-Nonadecane	3.353948E+08	3.37716E+08	0.7	30
n-Nonane	3.350168E+08	3.313795E+08	-1.1	30
n-Decane	3.360605E+08	3.337294E+08	-0.7	30
n-Dodecane	3.365143E+08	3.362975E+08	-0.06	30
n-Tetradecane	3.376027E+08	3.356885E+08	-0.6	30
n-Hexadecane	3.442821E+08	3.382331E+08	-1.8	30
n-Octadecane	3.391093E+08	3.381322E+08	-0.3	30
n-Eicosane	3.378662E+08	3.365021E+08	-0.4	30
n-Docosane	3.35257E+08	3.381542E+08	0.9	30
n-Tetracosane	3.322211E+08	3.365853E+08	1.3	30
n-Hexacosane	3.327109E+08	3.358834E+08	1.0	30
n-Octacosane	3.278913E+08	3.249442E+08	-0.9	30
n-Triacontane	3.256576E+08	3.32436E+08	2.1	30
n-Hexatriacontane	3.14041E+08	3.184885E+08	1.4	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309548				
Calibration Check (S309548-CCV2)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.905309E+08	13.4	30
n-Nonadecane	3.353948E+08	3.440469E+08	2.6	30
n-Nonane	3.350168E+08	3.548587E+08	5.9	30
n-Decane	3.360605E+08	3.536284E+08	5.2	30
n-Dodecane	3.365143E+08	3.502567E+08	4.1	30
n-Tetradecane	3.376027E+08	3.489837E+08	3.4	30
n-Hexadecane	3.442821E+08	3.498681E+08	1.6	30
n-Octadecane	3.391093E+08	3.48998E+08	2.9	30
n-Eicosane	3.378662E+08	3.445369E+08	2.0	30
n-Docosane	3.35257E+08	3.368936E+08	0.5	30
n-Tetracosane	3.322211E+08	3.304001E+08	-0.5	30
n-Hexacosane	3.327109E+08	3.266854E+08	-1.8	30
n-Octacosane	3.278913E+08	3.189728E+08	-2.7	30
n-Triacontane	3.256576E+08	3.152678E+08	-3.2	30
n-Hexatriacontane	3.14041E+08	3.110173E+08	-1.0	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309548				
Calibration Check (S309548-CCV4)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.819343E+08	10.5	30
n-Nonadecane	3.353948E+08	3.422355E+08	2.0	30
n-Nonane	3.350168E+08	3.548386E+08	5.9	30
n-Decane	3.360605E+08	3.526034E+08	4.9	30
n-Dodecane	3.365143E+08	3.481178E+08	3.4	30
n-Tetradecane	3.376027E+08	3.466409E+08	2.7	30
n-Hexadecane	3.442821E+08	3.47661E+08	1.0	30
n-Octadecane	3.391093E+08	3.467614E+08	2.3	30
n-Eicosane	3.378662E+08	3.429815E+08	1.5	30
n-Docosane	3.35257E+08	3.345191E+08	-0.2	30
n-Tetracosane	3.322211E+08	3.292828E+08	-0.9	30
n-Hexacosane	3.327109E+08	3.261398E+08	-2.0	30
n-Octacosane	3.278913E+08	3.188648E+08	-2.8	30
n-Triacontane	3.256576E+08	3.15241E+08	-3.2	30
n-Hexatriacontane	3.14041E+08	3.103936E+08	-1.2	30

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309548				
Calibration Check (S309548-CCV6)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.917324E+08	13.8	30
n-Nonadecane	3.353948E+08	3.507E+08	4.6	30
n-Nonane	3.350168E+08	3.649928E+08	8.9	30
n-Decane	3.360605E+08	3.633237E+08	8.1	30
n-Dodecane	3.365143E+08	3.584914E+08	6.5	30
n-Tetradecane	3.376027E+08	3.574055E+08	5.9	30
n-Hexadecane	3.442821E+08	3.583202E+08	4.1	30
n-Octadecane	3.391093E+08	3.563765E+08	5.1	30
n-Eicosane	3.378662E+08	3.508365E+08	3.8	30
n-Docosane	3.35257E+08	3.408478E+08	1.7	30
n-Tetracosane	3.322211E+08	3.341895E+08	0.6	30
n-Hexacosane	3.327109E+08	3.302638E+08	-0.7	30
n-Octacosane	3.278913E+08	3.223211E+08	-1.7	30
n-Triacontane	3.256576E+08	3.183419E+08	-2.2	30
n-Hexatriacontane	3.14041E+08	3.144034E+08	0.1	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309685				
Calibration Check (S309685-CCV2)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.075142E+08	-8.4	30
n-Nonadecane	3.561546E+08	3.466918E+08	-2.7	30
n-Nonane	3.732875E+08	3.495138E+08	-6.4	30
n-Decane	3.651436E+08	3.504604E+08	-4.0	30
n-Dodecane	3.48398E+08	3.469559E+08	-0.4	30
n-Tetradecane	3.588449E+08	3.471714E+08	-3.3	30
n-Hexadecane	3.756608E+08	3.48455E+08	-7.2	30
n-Octadecane	3.775606E+08	3.49641E+08	-7.4	30
n-Eicosane	3.825055E+08	3.49437E+08	-8.6	30
n-Docosane	3.815533E+08	3.456723E+08	-9.4	30
n-Tetracosane	3.82641E+08	3.436526E+08	-10.2	30
n-Hexacosane	3.864596E+08	3.44161E+08	-10.9	30
n-Octacosane	3.839113E+08	3.400478E+08	-11.4	30
n-Triacontane	3.841358E+08	3.396189E+08	-11.6	30
n-Hexatriacontane	3.752619E+08	3.351177E+08	-10.7	30

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309685				
Calibration Check (S309685-CCV4)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.575214E+08	5.9	30
n-Nonadecane	3.561546E+08	3.433E+08	-3.6	30
n-Nonane	3.732875E+08	3.428918E+08	-8.1	30
n-Decane	3.651436E+08	3.443258E+08	-5.7	30
n-Dodecane	3.48398E+08	3.405914E+08	-2.2	30
n-Tetradecane	3.588449E+08	3.428566E+08	-4.5	30
n-Hexadecane	3.756608E+08	3.456312E+08	-8.0	30
n-Octadecane	3.775606E+08	3.463822E+08	-8.3	30
n-Eicosane	3.825055E+08	3.457196E+08	-9.6	30
n-Docosane	3.815533E+08	3.438138E+08	-9.9	30
n-Tetracosane	3.82641E+08	3.417747E+08	-10.7	30
n-Hexacosane	3.864596E+08	3.427532E+08	-11.3	30
n-Octacosane	3.839113E+08	3.382936E+08	-11.9	30
n-Triacontane	3.841358E+08	3.392198E+08	-11.7	30
n-Hexatriacontane	3.752619E+08	3.36684E+08	-10.3	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309692				
Calibration Check (S309692-CCV2)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.554083E+08	1.6	30
n-Nonadecane	3.353948E+08	3.10399E+08	-7.5	30
n-Nonane	3.350168E+08	3.094558E+08	-7.6	30
n-Decane	3.360605E+08	3.075644E+08	-8.5	30
n-Dodecane	3.365143E+08	3.056525E+08	-9.2	30
n-Tetradecane	3.376027E+08	3.067562E+08	-9.1	30
n-Hexadecane	3.442821E+08	3.118168E+08	-9.4	30
n-Octadecane	3.391093E+08	3.125663E+08	-7.8	30
n-Eicosane	3.378662E+08	3.125859E+08	-7.5	30
n-Docosane	3.35257E+08	3.073692E+08	-8.3	30
n-Tetracosane	3.322211E+08	3.055567E+08	-8.0	30
n-Hexacosane	3.327109E+08	3.060897E+08	-8.0	30
n-Octacosane	3.278913E+08	3.025933E+08	-7.7	30
n-Triacontane	3.256576E+08	3.017197E+08	-7.4	30
n-Hexatriacontane	3.14041E+08	2.990247E+08	-4.8	30

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309692				
Calibration Check (S309692-CCV4)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.47065E+08	-1.1	30
n-Nonadecane	3.353948E+08	2.982864E+08	-11.1	30
n-Nonane	3.350168E+08	2.918312E+08	-12.9	30
n-Decane	3.360605E+08	2.900512E+08	-13.7	30
n-Dodecane	3.365143E+08	2.894513E+08	-14.0	30
n-Tetradecane	3.376027E+08	2.930172E+08	-13.2	30
n-Hexadecane	3.442821E+08	2.985526E+08	-13.3	30
n-Octadecane	3.391093E+08	2.999191E+08	-11.6	30
n-Eicosane	3.378662E+08	3.005211E+08	-11.1	30
n-Docosane	3.35257E+08	2.958752E+08	-11.7	30
n-Tetracosane	3.322211E+08	2.942765E+08	-11.4	30
n-Hexacosane	3.327109E+08	2.944828E+08	-11.5	30
n-Octacosane	3.278913E+08	2.903942E+08	-11.4	30
n-Triacontane	3.256576E+08	2.884377E+08	-11.4	30
n-Hexatriacontane	3.14041E+08	2.8393E+08	-9.6	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309692				
Calibration Check (S309692-CCV6)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.721736E+08	7.2	30
n-Nonadecane	3.353948E+08	2.987639E+08	-10.9	30
n-Nonane	3.350168E+08	2.909398E+08	-13.2	30
n-Decane	3.360605E+08	2.903848E+08	-13.6	30
n-Dodecane	3.365143E+08	2.883073E+08	-14.3	30
n-Tetradecane	3.376027E+08	2.916778E+08	-13.6	30
n-Hexadecane	3.442821E+08	2.973693E+08	-13.6	30
n-Octadecane	3.391093E+08	2.999405E+08	-11.6	30
n-Eicosane	3.378662E+08	3.016403E+08	-10.7	30
n-Docosane	3.35257E+08	2.983363E+08	-11.0	30
n-Tetracosane	3.322211E+08	2.98081E+08	-10.3	30
n-Hexacosane	3.327109E+08	3.001016E+08	-9.8	30
n-Octacosane	3.278913E+08	2.978483E+08	-9.2	30
n-Triacontane	3.256576E+08	2.978775E+08	-8.5	30
n-Hexatriacontane	3.14041E+08	2.957788E+08	-5.8	30

Notes and Definitions

QM8	The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
R01	The Reporting Limit has been raised to account for matrix interference.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin and waste automobile oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as Calculated as.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk
Nicole Leja

SB 74662

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 8

Special Handling: 5
- ☒ Standard TAT - ~~7 to 10~~ business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECom
900 Ethan Allen Dr
Rocky Hill CT

Telephone #: 800 203 5800
Project Mgr. Malcolm Kiefer

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60227515
Site Name: Cheshire High School
Location: Cheshire CT State: CT
Sampler(s): M. Rood + J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs - Soxhlet	Lead, Arsenic	EPH	PAH					
74662 01	MB-19 (0.5-1)-1	8/8/13	930	G	SO		1			X	X							
-02	MB-19 (4-5)-1	8/8/13	932	G	SO		1			X	X							
-03	MB-18 (0.5-1)-1	8/8/13	952	G	SO		1			X	X							
-04	MB-18 (4-5)-1	8/8/13	958	G	SO		1			X	X							
-05	MB-17 (0.5-1)-1	8/8/13	1015	G	SO		1			X	X							
-06	MB-17 (4-5)-1	8/8/13	1017	G	SO		1			X	X							
-07	MB-21 (0.5-1)-1	8/8/13	920	G	SO		1			X	X							
-08	MB-21 (4-4)-1	8/8/13	922	G	SO		1			X	X							
-09	MB-22 (0-0.5)-1	8/8/13	910	G	SO		1			X	X							
-10	MB-22 (4-5)-1	8/8/13	912	G	SO		1			X	X	X	X					

MA DEP MCP CAM Report: Yes ☐ No ☒
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
		8/8/13	2:45p	
		8/8/13	1705	

☒ EDD Format equis
☒ E-mail to malcolm.kiefer@aecom.com
colleen.stoll@aecom.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

4/10/14 IR01

SB 74662e

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 8

Special Handling: 5
- ☒ Standard TAT - ~~7 to 10~~ business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECom
500 Enterprise Dr
Rocky Hill CT

Telephone #: 860 263 5300
Project Mgr. Malcolm Peeler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Cromwell High School
Location: Cromwell State: CT
Sampler(s): M. Reed & J. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs - Soxhlet	Lead - Arsenic	ETPH	PAHs					
74662-11	MB-26(0.5-1)-1	8/8/13	940	G	SO		1			X	X							
-12	MB-26(3-4)-1	8/8/13	942	G	SO		1			X	X	X	X					
-13	MB-23(0.5-1)-1	8/8/13	906	G	SO		1			X	X							
-14	MB-23(3-4)-1	8/8/13	907	G	SO		1			X	X	X	X					
-15	MB-16(0.5-1)-1	8/8/13	1030	G	SO		1			X	X							
-16	MB-16(2-3)-1	8/8/13	1032	G	SO		1			X	X							
-17	MB-44(0.5-1)-1	8/8/13	1040	G	SO		1			X	X							
-18	MB44(3-4)-1	8/8/13	1042	G	SO		1			X	X							
-19	MB-44(4-5)-1	8/8/13	1044	G	SO		1			X	X	X	X					
-20	MB44(8-10)-1	8/8/13	1046	G	SO		1			X								

MA DEP MCP CAM Report: Yes ☐ No ☒
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
		8/8/13	2:45p	
		8/8/13	1705	

☒ EDD Format EQUIS
☒ E-mail to Malcolm.Peeler@aecom.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

4-6 DAY TAT

SB74662e

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 8

Special Handling: 5
- ☒ Standard TAT - ~~7 to 10~~ business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr
Rocky Hill CT

Telephone #: 800 263 5800
Project Mgr. Malcolm Bidler

Invoice To: Sam

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Cranston High School
Location: Cranston State: RI
Sampler(s): M. Rood & J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs - Soxhlet	Lead Arsenic	ETPH	PAHs					
74662-21	MB-43(0-0.5)-1	8/8/13	1050	G	SO		1			X	X							
-22	MB-43(1-2)-1	8/8/13	1052	G	SO		1			X	X							
-23	MB-43(3-4)-1	8/8/13	1054	G	SO		1			X	X	X	X					
-24	MB-42(0.5-1)-1	8/8/13	1056	G	SO		1			X	X							
-25	MB-42(2-3)-1	8/8/13	1058	G	SO		1			X	X							
-26	MB-42(4-5)-1	8/8/13	1100	G	SO		1			X	X							
-27	MB-41(0.5-1)-1	8/8/13	1102	G	SO		1			X	X							
-28	MB-41(1-2)-1	8/8/13	1104	G	SO		1			X	X							
-29	MB-41(2-3)-1	8/8/13	1106	G	SO		1			X	X	X	X					
-30	MB-40(0-0.5)	8/8/13	1108	G	SO		1			X	X							

MA DEP MCP CAM Report: Yes ☐ No ☒
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
		8/8/13	2145p	
		8/8/13	1705	

☒ EDD Format EQUIS
☒ E-mail to Malcolm.bidler@aecom.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

LL0144R01

SB 74662 Rec

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 4 of 8

Special Handling: 5
☒ Standard TAT - ~~7 to 10~~ business days
☐ Rush TAT - Date Needed: _____
· All TATs subject to laboratory approval.
· Min. 24-hour notification needed for rushes.
· Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr
Rocky Hill CT

Telephone #: 860 263 5800
Project Mgr. Malcolm Bieler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Cheshire High School
Location: Cheshire State: CT
Sampler(s): M. Road + T. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCB - Soil 4.1.2.7	Arsenic + Lead	ETPH	PAHs				
74662-31	MB 40(2-3)-1	8/8/13	1110	G	SO		1			X	X						
-32	MB 40(4-5)-1	8/8/13	1112				1			X	X	X	X				
-33	MB 40(5-7)-1	8/8/13	1114				1			X							
-34	MB 39(0.5-1)	8/8/13	1115				1			X	X						
-35	MB 39(1-2)-1	8/8/13	1117				1			X	X						
-36	MB 39(3-4)-1	8/8/13	1119				1			X	X						
-37	MB 38(0-0.5)-1	8/8/13	1120				1			X	X						
-38	MB 38(2-3)-1	8/8/13	1122				1			X	X						
-39	MB 38(4-5)-1	8/8/13	1124				1			X	X						
-40	MB 37(0.5-1)-1	8/8/13	1126				1			X	X						

MA DEP MCP CAM Report: Yes☐ No☒
CT DPH RCP Report: Yes☒ No☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	8/8/13	2:45p	
[signature]	[signature]	8/8/13	1705	

☒ EDD Format EQuIS
☐ E-mail to Malcolm.bieler@aecom.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

4.6/0/2013 IR

SB 74662

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 5 of 8

Special Handling: S
☒ Standard TAT ~~7 to 10~~ business days
☐ Rush TAT - Date Needed: _____
· All TATs subject to laboratory approval.
· Min. 24-hour notification needed for rushes.
· Samples disposed of after 60 days unless otherwise instructed.

Report To: AEcom
500 Enterprise Dr
Rocky Hill

Telephone #: 860 263 5800
Project Mgr. Malcolm Bieler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Cromwell High School
Location: Cromwell State: CT
Sampler(s): M. Reed & J. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: VOC - 8260/624	Lead + Arsenic	PAHs	EPH				
74662-41	MB-37(2-3)-1	8/8/13	1128	G	SO		1			X	X						
-42	MB-37(4-5)-1	8/8/13	1130				1			X	X	X	X				
-43	MB-36(0-0.5)-1	8/8/13	1140				1			X	X						
-44	MB-36(1-2)-1	8/8/13	1142				1			X	X						
-45	MB-36(3-4)-1	8/8/13	1145				1			X	X						
-46	MB-36(5-7)-1	8/8/13	1147				1			X							
-47	MB-34(0.5-1)-1	8/8/13	1150				1			X	X						
-48	MB-34(2-3)-1	8/8/13	1152				1			X	X						
-49	MB-34(4-5)-1	8/8/13	1154				1			X	X						
-50	MB-34(8-9)-1	8/8/13	1156				1			X							

MA DEP MCP CAM Report: Yes☐ No☒
CT DPH RCP Report: Yes☒ No☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
Jet	Jet	8/8/13	2:45p	
		8/8/13	1645	

☒ EDD Format equis
☒ E-mail to malcolm.bieler@aecom.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

410/446 IR01

SB 74662

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 6 of 8

Special Handling: 5
- [x] Standard TAT - ~~7 to 10~~ business days
- [ ] Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr
Rocky Hill CT

Telephone #: 860 263 5800
Project Mgr. Malcolm Bieler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Cheshire High School
Location: Cheshire State: CT
Sampler(s): M. Reed + J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11=_____ 12=_____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCB - Soil	Arsenic, Lead	EPH	PAHs					
74662-51	MB25 (0-0.5)-1	8/8/13	1230	G	SO		1			X	X							
-52	MB-25 (1-2)-1	8/8/13	1232	G	SO		1			X	X							
-53	MB-25(4-5)-1	8/8/13	1234	G	SO		1			X	X							
-54	MB26(0.5-1)-1	8/8/13	1340	G	SO		1			X	X							
-55	MB-26(2-3)-1	8/8/13	1342	G	SO		1			X	X							
-56	MB-26 (4-5)-1	8/8/13	1344	G	SO		1			X	X							
-57	MB27(0-0.5)-1	8/8/13	1350	G	SO		1			X	X							
-58	MB-27(1-2)-1	8/8/13	1352	G	SO		1			X	X							
-59	MB 27 (3-4)-1	8/8/13	1354	G	SO		1			X	X							
-60	MB-28(0.5-1)-1	8/8/13	1355	G	SO		1			X	X							

MA DEP MCP CAM Report: Yes☐ No☑
CT DPH RCP Report: Yes☑ No☐

QA/QC Reporting Level
☑ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	8/8/13	2:45p	
[signature]	[signature]	8/8/13	1705	

☑ EDD Format EQuIS
☑ E-mail to Malcolm.bieler@aecom.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

4.6/0.1 HADR OK

SB 74662

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 7 of 8

Special Handling: 5
☑ Standard TAT - ~~7 to 10~~ business days
☐ Rush TAT - Date Needed: _____
· All TATs subject to laboratory approval.
· Min. 24-hour notification needed for rushes.
· Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr.
Rocky Hill, CT

Telephone #: 860-263-5800
Project Mgr. Malcolm Beeler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60325155
Site Name: Greenwich High School
Location: Greenwich State: CT
Sampler(s): M. Rood J. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs - Soxhlet	As, Pb	ETPH, PAHs						
74662-61	MB-28 (2-3) -1	8/8/13	1357	G	So		1			X	X							
-62	MB-28 (4-5) -1	8/8/13	1359	G	So		1			X	X							
-63	MB-29 (0-0.5) -1	8/8/13	1402	G	So		1			X	X							
-64	MB-29 (1-2) -1	8/8/13	1404	G	So		1			X	X							
-65	MB-29 (3-4) -1	8/8/13	1408	G	So		1			X	X							
-66	MB-30 (0.5-1) -1	8/8/13	1410	G	So		1			X	X							
-67	MB-30 (2-3)	8/8/13	1412	G	So		1			X	X							
-68	MB-30 (3-4)	8/8/13	1414	G	So		1			X	X	X						
-69	MB-32 (0-0.5) -1	8/8/13	1420	G	So		1			X	X							
-70	MB-32 (2-3) -1	8/8/13	1422	G	So		1			X	X							

MA DEP MCP CAM Report: Yes☐ No☐
CT DPH RCP Report: Yes☐ No☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature] JCT	JCT	8/8/13	2:45p	
		8/8/13	1705	

☑ EDD Format Equis
☒ E-mail to Malcolm.Beeler@AECOM.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

4.6/4.6 IR 1

SB 74662

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 8 of 8

Special Handling: 5
- [x] ~~Standard TAT - 7 to 10 business days~~
- [ ] Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr.
Rocky Hill, CT

Telephone #: 860-683-5800
Project Mgr. Malcolm Beeler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60325155
Site Name: Greenwich HS
Location: Greenwich State: CT
Sampler(s): M. Rood, J. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs, SVOCs	As, Pb	ETPH, PAHs
74662-71	MB-32(4-5)	8/8/13	1429	G	So		1			x	x	
-72	MB-31(0-0.5)-1	8/8/13	1436	G	So		1			x	x	
-73	MB-31(1-2)-1	8/8/13	1437	G	So		1			x	x	
-74	MB-31(3-4)-1	8/8/13	1438	G	So		1			x	x	x
-75	MB-33(0.5-1)-1	8/8/13	1430	G	So		1			x	x	
-76	MB-33(2-3)-1	8/8/13	1432	G	So		1			x	x	x
-77	MB-33(4-5)-1	8/8/13	1434	G	So		1			x	x	
-78	MB-15(0.5-1)-1	8/8/13	1440	G	So		1			x	x	
-79	MB-15(4-5)-1	8/8/13	1442	G	So		1			x	x	

MA DEP MCP CAM Report: Yes☐ No☐
CT DPH RCP Report: Yes☐ No☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature] JCT	JCT [signature]	8/8/13	2:45 PM	
		8/8/13	1705	

☑ EDD Format Equis
☑ E-mail to Malcolm.Beeler@AECOM.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

HOLD IR_01

Report Date:
16-Aug-13 15:06

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: Greenwich HS - Greenwich, CT
Project #: 60225155

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74753-01	MB-14(.5-1)-1	Soil	09-Aug-13 08:20	09-Aug-13 19:40
SB74753-02	MB-14(1-2)-1	Soil	09-Aug-13 08:22	09-Aug-13 19:40
SB74753-03	MB-13(0-0.5)-1	Soil	09-Aug-13 08:25	09-Aug-13 19:40
SB74753-04	MB-13(2-3)-1	Soil	09-Aug-13 08:27	09-Aug-13 19:40
SB74753-05	MB-12(0.5-1)-1	Soil	09-Aug-13 08:30	09-Aug-13 19:40
SB74753-06	MB-12(3-4)-1	Soil	09-Aug-13 08:32	09-Aug-13 19:40
SB74753-07	MB-11(0-0.5)-1	Soil	09-Aug-13 08:33	09-Aug-13 19:40
SB74753-08	MB-11(4-5)-1	Soil	09-Aug-13 08:35	09-Aug-13 19:40
SB74753-09	MB-10(0.5-1)-1	Soil	09-Aug-13 08:40	09-Aug-13 19:40
SB74753-10	MB-10(2-3)-1	Soil	09-Aug-13 08:42	09-Aug-13 19:40
SB74753-11	MB-9(0.5-1)-1	Soil	09-Aug-13 08:50	09-Aug-13 19:40
SB74753-12	MB-9(3-4)-1	Soil	09-Aug-13 08:52	09-Aug-13 19:40
SB74753-13	MB-35(0-0.5)-1	Soil	09-Aug-13 09:05	09-Aug-13 19:40
SB74753-14	MB-35(1-2)-1	Soil	09-Aug-13 09:07	09-Aug-13 19:40
SB74753-15	MB-35(4-5)-1	Soil	09-Aug-13 09:09	09-Aug-13 19:40
SB74753-16	MB-24(0.5-1)-1	Soil	09-Aug-13 09:12	09-Aug-13 19:40
SB74753-17	MB-24(1-2)-1	Soil	09-Aug-13 09:14	09-Aug-13 19:40
SB74753-18	MB-24(3-4)-1	Soil	09-Aug-13 09:16	09-Aug-13 19:40
SB74753-19	MB-3(0.5-1)-1	Soil	09-Aug-13 09:25	09-Aug-13 19:40
SB74753-20	MB-3(2-3)-1	Soil	09-Aug-13 09:27	09-Aug-13 19:40
SB74753-21	MB-2(0-0.5)-1	Soil	09-Aug-13 09:40	09-Aug-13 19:40
SB74753-22	MB-2(1-2)-1	Soil	09-Aug-13 09:42	09-Aug-13 19:40
SB74753-23	MB-1(0-0.5)-1	Soil	09-Aug-13 09:45	09-Aug-13 19:40
SB74753-24	MB-1(2-3)-1	Soil	09-Aug-13 09:47	09-Aug-13 19:40
SB74753-25	MB-4(0.5-1)-1	Soil	09-Aug-13 10:15	09-Aug-13 19:40
SB74753-26	MB-4(3-4)-1	Soil	09-Aug-13 10:17	09-Aug-13 19:40
SB74753-27	MB-5(0.5-1)-1	Soil	09-Aug-13 10:24	09-Aug-13 19:40
SB74753-28	MB-5(3-4)-1	Soil	09-Aug-13 10:29	09-Aug-13 19:40
SB74753-29	MB-6(0-0.5)-1	Soil	09-Aug-13 10:33	09-Aug-13 19:40
SB74753-30	MB-6(4-5)-1	Soil	09-Aug-13 10:35	09-Aug-13 19:40
SB74753-31	MB-7(0-0.5)-1	Soil	09-Aug-13 10:40	09-Aug-13 19:40
SB74753-32	MB-7(4-5)-1	Soil	09-Aug-13 10:42	09-Aug-13 19:40
SB74753-33	MB-8(0.5-1)-1	Soil	09-Aug-13 10:45	09-Aug-13 19:40
SB74753-34	MB-8(3-4)-1	Soil	09-Aug-13 10:47	09-Aug-13 19:40

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 64 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: Greenwich HS - Greenwich, CT

Project Number: 60225155

Sampling Date(s):
8/9/2013

Laboratory Sample ID(s):
SB74753-01 through SB74753-34

RCP Methods Used:

CT ETPH

SW846 6010C

SW846 8082A

SW846 8270D

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/16/2013

CASE NARRATIVE:

The samples were received 2.5 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

CT ETPH

Spikes:

1319406-MS1 *Source: SB74753-24*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

C9-C36 Aliphatic Hydrocarbons

1319406-MSD1 *Source: SB74753-24*

RPD out of acceptance range.

C9-C36 Aliphatic Hydrocarbons

SW846 6010C

Spikes:

1319448-MS1 *Source: SB74753-19*

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

Lead

Duplicates:

1319447-DUP1 *Source: SB74753-17*

SW846 6010C

Duplicates:

1319447-DUP1 *Source: SB74753-17*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Arsenic

Samples:

SB74753-16 *MB-24(0.5-1)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Lead

The Reporting Limit has been raised to account for matrix interference.

Arsenic

SW846 8082A

Samples:

SB74753-06 *MB-12(3-4)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254

SB74753-08 *MB-11(4-5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254

SB74753-10 *MB-10(2-3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74753-12 *MB-9(3-4)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74753-20 *MB-3(2-3)-1*

SW846 8082A

Samples:

SB74753-20 *MB-3(2-3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74753-32 *MB-7(4-5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254

SB74753-34 *MB-8(3-4)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254

SW846 8270D

Spikes:

1319408-MSD1 *Source: SB74753-12*

The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

Benzo (k) fluoranthene

Samples:

S309713-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Benzo (g,h,i) perylene (35.1%)

This affected the following samples:

1319408-MS1
1319408-MSD1
MB-9(3-4)-1

S309793-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Pyrene (21.7%)

This affected the following samples:

1319560-BLK1

SW846 8270D

Samples:

SB74753-24	*MB-1(2-3)-1*

The Reporting Limit has been raised to account for matrix interference.

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	Greenwich HS - Greenwich, CT / 60225155
Work Order:	SB74753
Sample(s) received on:	8/9/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-14(.5-1)-1 SB74753-01	60225155	Soil	09-Aug-13 08:20	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.6	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.8		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	**291**		µg/kg dry	20.8	12.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**27.1**		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.59	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.26**		mg/kg dry	1.39	0.606	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**29.3**		mg/kg dry	1.39	0.513	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.3**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319359	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-14(1-2)-1 SB74753-02	60225155	Soil	09-Aug-13 08:22	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.1		µg/kg dry	21.1	15.7	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 21.1		µg/kg dry	21.1	19.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.1		µg/kg dry	21.1	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.1		µg/kg dry	21.1	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.1		µg/kg dry	21.1	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.1		µg/kg dry	21.1	17.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.1		µg/kg dry	21.1	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.1		µg/kg dry	21.1	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.1		µg/kg dry	21.1	8.69	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.55**		mg/kg dry	1.61	0.702	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**24.7**		mg/kg dry	1.61	0.594	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.7**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319359	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-13(0-0.5)-1 SB74753-03	60225155	Soil	09-Aug-13 08:25	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.5		µg/kg dry	21.5	16.1	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 21.5		µg/kg dry	21.5	19.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.5		µg/kg dry	21.5	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.5		µg/kg dry	21.5	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.5		µg/kg dry	21.5	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**83.9**		µg/kg dry	21.5	17.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**38.7**		µg/kg dry	21.5	10.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.5		µg/kg dry	21.5	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.5		µg/kg dry	21.5	8.87	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.66**		mg/kg dry	1.43	0.621	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**11.6**		mg/kg dry	1.43	0.525	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.0**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319359	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-13(2-3)-1	60225155	Soil	09-Aug-13 08:27	09-Aug-13
SB74753-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 186		µg/kg dry	186	47.2	1	SW846 8270D	13-Aug-13	15-Aug-13	JG	1319408	X
208-96-8	Acenaphthylene	< 186		µg/kg dry	186	51.4	1	"	"	"	"	"	X
120-12-7	Anthracene	< 186		µg/kg dry	186	47.3	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 186		µg/kg dry	186	49.7	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 186		µg/kg dry	186	50.5	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 186		µg/kg dry	186	40.3	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 186		µg/kg dry	186	51.6	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 186		µg/kg dry	186	65.7	1	"	"	"	"	"	X
218-01-9	Chrysene	< 186		µg/kg dry	186	52.4	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 186		µg/kg dry	186	47.9	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 186		µg/kg dry	186	51.9	1	"	"	"	"	"	X
86-73-7	Fluorene	< 186		µg/kg dry	186	51.6	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 186		µg/kg dry	186	51.5	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 186		µg/kg dry	186	54.8	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 186		µg/kg dry	186	53.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 186		µg/kg dry	186	51.8	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 186		µg/kg dry	186	49.5	1	"	"	"	"	"	X
129-00-0	Pyrene	< 186		µg/kg dry	186	44.9	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*89*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*108*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	16.2	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.6		µg/kg dry	21.6	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.6		µg/kg dry	21.6	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.6		µg/kg dry	21.6	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.93	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.0		mg/kg dry	29.0	1.5	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319406	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-13(2-3)-1 SB74753-04	60225155	Soil	09-Aug-13 08:27	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 29.0		mg/kg dry	29.0	2.9	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319406	
68476-31-3	Fuel Oil #4	< 29.0		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.0		mg/kg dry	29.0	7.3	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.0		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.0		mg/kg dry	29.0	7.3	1	"	"	"	"	"	
	Unidentified	< 29.0		mg/kg dry	29.0	7.3	1	"	"	"	"	"	
	Other Oil	< 29.0		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 29.0		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 29.0		mg/kg dry	29.0	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*78*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.15**		mg/kg dry	1.61	0.702	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**10.9**		mg/kg dry	1.61	0.593	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.4**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-12(0.5-1)-1 SB74753-05	60225155	Soil	09-Aug-13 08:30	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.4		µg/kg dry	21.4	16.0	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 21.4		µg/kg dry	21.4	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.4		µg/kg dry	21.4	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.4		µg/kg dry	21.4	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.4		µg/kg dry	21.4	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	**148**		µg/kg dry	21.4	12.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**41.8**		µg/kg dry	21.4	10.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.84	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.02**		mg/kg dry	1.57	0.684	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**99.6**		mg/kg dry	1.57	0.579	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.3**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-12(3-4)-1 SB74753-06	60225155	Soil	09-Aug-13 08:32	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 220	R01	µg/kg dry	220	164	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 220	R01	µg/kg dry	220	198	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 220	R01	µg/kg dry	220	141	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 220	R01	µg/kg dry	220	132	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 220	R01	µg/kg dry	220	114	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 220	R01	µg/kg dry	220	183	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.0		µg/kg dry	22.0	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.07	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**6.80**		mg/kg dry	1.69	0.736	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**37.8**		mg/kg dry	1.69	0.623	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**88.4**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-11(0-0.5)-1 SB74753-07	60225155	Soil	09-Aug-13 08:33	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.4		µg/kg dry	21.4	16.0	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 21.4		µg/kg dry	21.4	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.4		µg/kg dry	21.4	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.4		µg/kg dry	21.4	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.4		µg/kg dry	21.4	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	**96.2**		µg/kg dry	21.4	12.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**52.4**		µg/kg dry	21.4	10.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.82	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.10**		mg/kg dry	1.59	0.693	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**19.5**		mg/kg dry	1.59	0.586	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.9**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-11(4-5)-1 SB74753-08	60225155	Soil	09-Aug-13 08:35	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 211	R01	µg/kg dry	211	158	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 211	R01	µg/kg dry	211	190	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 211	R01	µg/kg dry	211	136	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 211	R01	µg/kg dry	211	127	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 211	R01	µg/kg dry	211	110	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 211	R01	µg/kg dry	211	176	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.1		µg/kg dry	21.1	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.1		µg/kg dry	21.1	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.1		µg/kg dry	21.1	8.71	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*135*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.85**		mg/kg dry	1.42	0.619	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**12.9**		mg/kg dry	1.42	0.524	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.6**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-10(0.5-1)-1 SB74753-09	60225155	Soil	09-Aug-13 08:40	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.4		µg/kg dry	21.4	16.0	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 21.4		µg/kg dry	21.4	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.4		µg/kg dry	21.4	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.4		µg/kg dry	21.4	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.4		µg/kg dry	21.4	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**117**		µg/kg dry	21.4	17.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**102**		µg/kg dry	21.4	10.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.84	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.78**		mg/kg dry	1.52	0.661	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**44.3**		mg/kg dry	1.52	0.559	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.8**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-10(2-3)-1 SB74753-10	60225155	Soil	09-Aug-13 08:42	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 220	R01	µg/kg dry	220	164	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 220	R01	µg/kg dry	220	198	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 220	R01	µg/kg dry	220	141	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 220	R01	µg/kg dry	220	132	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 220	R01	µg/kg dry	220	114	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.0		µg/kg dry	22.0	18.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.0		µg/kg dry	22.0	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.07	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.98**		mg/kg dry	1.40	0.611	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**12.0**		mg/kg dry	1.40	0.516	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.8**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-9(0.5-1)-1 SB74753-11	60225155	Soil	09-Aug-13 08:50	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	15.7	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	18.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.0		µg/kg dry	21.0	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**108**		µg/kg dry	21.0	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**53.5**		µg/kg dry	21.0	10.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.66	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*145*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.33**		mg/kg dry	1.53	0.669	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**28.2**		mg/kg dry	1.53	0.566	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.5**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-9(3-4)-1 SB74753-12	60225155	Soil	09-Aug-13 08:52	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 186		µg/kg dry	186	47.1	1	SW846 8270D	13-Aug-13	15-Aug-13	MSL	1319408	X
208-96-8	Acenaphthylene	< 186		µg/kg dry	186	51.4	1	"	"	"	"	"	X
120-12-7	Anthracene	< 186		µg/kg dry	186	47.3	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 186		µg/kg dry	186	49.7	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 186		µg/kg dry	186	50.5	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 186		µg/kg dry	186	40.3	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 186		µg/kg dry	186	51.6	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 186		µg/kg dry	186	65.7	1	"	"	"	"	"	X
218-01-9	Chrysene	< 186		µg/kg dry	186	52.3	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 186		µg/kg dry	186	47.9	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 186		µg/kg dry	186	51.8	1	"	"	"	"	"	X
86-73-7	Fluorene	< 186		µg/kg dry	186	51.6	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 186		µg/kg dry	186	51.4	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 186		µg/kg dry	186	54.7	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 186		µg/kg dry	186	53.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 186		µg/kg dry	186	51.8	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 186		µg/kg dry	186	49.5	1	"	"	"	"	"	X
129-00-0	Pyrene	< 186		µg/kg dry	186	44.8	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*82*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*75*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 214	R01	µg/kg dry	214	160	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 214	R01	µg/kg dry	214	193	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 214	R01	µg/kg dry	214	137	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 214	R01	µg/kg dry	214	129	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 214	R01	µg/kg dry	214	111	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.4		µg/kg dry	21.4	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.4		µg/kg dry	21.4	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.83	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.5		mg/kg dry	29.5	1.5	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319406	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-9(3-4)-1 SB74753-12	60225155	Soil	09-Aug-13 08:52	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 29.5		mg/kg dry	29.5	2.9	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319406	
68476-31-3	Fuel Oil #4	< 29.5		mg/kg dry	29.5	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.5		mg/kg dry	29.5	7.4	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.5		mg/kg dry	29.5	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.5		mg/kg dry	29.5	7.4	1	"	"	"	"	"	
	Unidentified	< 29.5		mg/kg dry	29.5	7.4	1	"	"	"	"	"	
	Other Oil	< 29.5		mg/kg dry	29.5	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 29.5		mg/kg dry	29.5	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 29.5		mg/kg dry	29.5	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*88*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.18**		mg/kg dry	1.44	0.629	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**22.4**		mg/kg dry	1.44	0.532	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.1**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-35(0-0.5)-1 SB74753-13	60225155	Soil	09-Aug-13 09:05	09-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.1		µg/kg dry	20.1	15.0	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 20.1		µg/kg dry	20.1	18.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.1		µg/kg dry	20.1	12.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.1		µg/kg dry	20.1	12.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.1		µg/kg dry	20.1	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.1		µg/kg dry	20.1	16.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.1		µg/kg dry	20.1	12.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.1		µg/kg dry	20.1	18.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.1		µg/kg dry	20.1	8.30	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.39**		mg/kg dry	1.37	0.596	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**12.3**		mg/kg dry	1.37	0.504	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.6**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-35(1-2)-1 SB74753-14	60225155	Soil	09-Aug-13 09:07	09-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.1		µg/kg dry	20.1	15.0	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 20.1		µg/kg dry	20.1	18.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.1		µg/kg dry	20.1	12.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.1		µg/kg dry	20.1	12.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.1		µg/kg dry	20.1	10.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**45.2**		µg/kg dry	20.1	16.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.1		µg/kg dry	20.1	12.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.1		µg/kg dry	20.1	18.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.1		µg/kg dry	20.1	8.28	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.46**		mg/kg dry	1.56	0.680	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**16.0**		mg/kg dry	1.56	0.575	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.3**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-35(4-5)-1 SB74753-15	60225155	Soil	09-Aug-13 09:09	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.7		µg/kg dry	22.7	17.0	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 22.7		µg/kg dry	22.7	20.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.7		µg/kg dry	22.7	14.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.7		µg/kg dry	22.7	13.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**4,970**		µg/kg dry	22.7	9.97	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.7		µg/kg dry	22.7	18.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**141**		µg/kg dry	22.7	11.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.7		µg/kg dry	22.7	21.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.7		µg/kg dry	22.7	9.37	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.67**		mg/kg dry	1.61	0.704	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**134**		mg/kg dry	1.61	0.595	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**87.1**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-24(0.5-1)-1	60225155	Soil	09-Aug-13 09:12	09-Aug-13
SB74753-16				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.4		µg/kg dry	21.4	16.0	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 21.4		µg/kg dry	21.4	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.4		µg/kg dry	21.4	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.4		µg/kg dry	21.4	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.4		µg/kg dry	21.4	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.4		µg/kg dry	21.4	17.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.4		µg/kg dry	21.4	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.84	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**10.7**	R01, D	mg/kg dry	6.96	3.03	5	SW846 6010C	14-Aug-13	16-Aug-13	Ir	1319447	X
7439-92-1	Lead	**2,230**	GS1, D	mg/kg dry	6.96	2.57	5	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.8**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-24(1-2)-1 SB74753-17	60225155	Soil	09-Aug-13 09:14	09-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	15.7	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	18.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.0		µg/kg dry	21.0	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.0		µg/kg dry	21.0	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.0		µg/kg dry	21.0	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.67	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 1.58		mg/kg dry	1.58	0.687	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**8.04**		mg/kg dry	1.58	0.581	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.4**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-24(3-4)-1 SB74753-18	60225155	Soil	09-Aug-13 09:16	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.2		µg/kg dry	22.2	16.6	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 22.2		µg/kg dry	22.2	20.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.2		µg/kg dry	22.2	14.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.2		µg/kg dry	22.2	13.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.2		µg/kg dry	22.2	11.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.2		µg/kg dry	22.2	18.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.2		µg/kg dry	22.2	13.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.2		µg/kg dry	22.2	20.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.2		µg/kg dry	22.2	9.17	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**28.5**		mg/kg dry	1.50	0.653	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**90.4**		mg/kg dry	1.50	0.552	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**84.4**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-3(0.5-1)-1 SB74753-19	60225155	Soil	09-Aug-13 09:25	09-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.7		µg/kg dry	19.7	14.7	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 19.7		µg/kg dry	19.7	17.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.7		µg/kg dry	19.7	12.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.7		µg/kg dry	19.7	11.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.7		µg/kg dry	19.7	10.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.7		µg/kg dry	19.7	16.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.7		µg/kg dry	19.7	12.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.7		µg/kg dry	19.7	18.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.7		µg/kg dry	19.7	8.11	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.56**		mg/kg dry	1.49	0.648	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**12.3**		mg/kg dry	1.49	0.548	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.4**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-3(2-3)-1 SB74753-20	60225155	Soil	09-Aug-13 09:27	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 202	R01	µg/kg dry	202	151	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 202	R01	µg/kg dry	202	182	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 202	R01	µg/kg dry	202	130	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 202	R01	µg/kg dry	202	121	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 202	R01	µg/kg dry	202	105	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.2		µg/kg dry	20.2	16.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.2		µg/kg dry	20.2	12.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.2		µg/kg dry	20.2	18.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.2		µg/kg dry	20.2	8.33	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.02**		mg/kg dry	1.45	0.634	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**20.5**		mg/kg dry	1.45	0.536	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.2**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-2(0-0.5)-1 SB74753-21	60225155	Soil	09-Aug-13 09:40	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.9		µg/kg dry	20.9	15.6	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 20.9		µg/kg dry	20.9	18.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.9		µg/kg dry	20.9	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.9		µg/kg dry	20.9	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.9		µg/kg dry	20.9	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.9		µg/kg dry	20.9	17.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.9		µg/kg dry	20.9	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.9		µg/kg dry	20.9	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.9		µg/kg dry	20.9	8.62	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.93**		mg/kg dry	1.46	0.635	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**20.2**		mg/kg dry	1.46	0.537	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**95.2**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-2(1-2)-1 SB74753-22	60225155	Soil	09-Aug-13 09:42	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.5		µg/kg dry	21.5	16.0	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 21.5		µg/kg dry	21.5	19.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.5		µg/kg dry	21.5	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.5		µg/kg dry	21.5	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.5		µg/kg dry	21.5	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.5		µg/kg dry	21.5	17.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.5		µg/kg dry	21.5	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.5		µg/kg dry	21.5	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.5		µg/kg dry	21.5	8.86	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.76**		mg/kg dry	1.50	0.653	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**117**		mg/kg dry	1.50	0.552	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.0**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-1(0-0.5)-1 SB74753-23	60225155	Soil	09-Aug-13 09:45	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.6		µg/kg dry	19.6	14.6	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 19.6		µg/kg dry	19.6	17.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.6		µg/kg dry	19.6	12.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.6		µg/kg dry	19.6	11.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.6		µg/kg dry	19.6	10.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.6		µg/kg dry	19.6	16.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.6		µg/kg dry	19.6	12.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.6		µg/kg dry	19.6	18.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.6		µg/kg dry	19.6	8.07	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.28**		mg/kg dry	1.56	0.679	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**43.9**		mg/kg dry	1.56	0.574	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.5**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-1(2-3)-1 SB74753-24	60225155	Soil	09-Aug-13 09:47	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			R01										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 360	D	µg/kg dry	360	91.5	2	SW846 8270D	15-Aug-13	15-Aug-13	JG	1319560	X
208-96-8	Acenaphthylene	< 360	D	µg/kg dry	360	99.7	2	"	"	"	"	"	X
120-12-7	Anthracene	< 360	D	µg/kg dry	360	91.7	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**964**	D	µg/kg dry	360	96.3	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**959**	D	µg/kg dry	360	98.0	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**885**	D	µg/kg dry	360	78.2	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**420**	D	µg/kg dry	360	100	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**921**	D	µg/kg dry	360	127	2	"	"	"	"	"	X
218-01-9	Chrysene	**981**	D	µg/kg dry	360	102	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 360	D	µg/kg dry	360	92.9	2	"	"	"	"	"	X
206-44-0	Fluoranthene	**2,060**	D	µg/kg dry	360	101	2	"	"	"	"	"	X
86-73-7	Fluorene	< 360	D	µg/kg dry	360	100	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**498**	D	µg/kg dry	360	99.8	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 360	D	µg/kg dry	360	106	2	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 360	D	µg/kg dry	360	103	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 360	D	µg/kg dry	360	100	2	"	"	"	"	"	X
85-01-8	Phenanthrene	**973**	D	µg/kg dry	360	96.0	2	"	"	"	"	"	X
129-00-0	Pyrene	**1,710**	D	µg/kg dry	360	87.0	2	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*84*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*91*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	15.9	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.3		µg/kg dry	21.3	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.79	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.0		mg/kg dry	28.0	1.4	1	CT ETPH	13-Aug-13	16-Aug-13	SEP	1319406	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-1(2-3)-1 SB74753-24	60225155	Soil	09-Aug-13 09:47	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 28.0		mg/kg dry	28.0	2.8	1	CT ETPH	13-Aug-13	16-Aug-13	SEP	1319406	
68476-31-3	Fuel Oil #4	< 28.0		mg/kg dry	28.0	2.8	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.0		mg/kg dry	28.0	7.0	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.0		mg/kg dry	28.0	2.8	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.0		mg/kg dry	28.0	7.0	1	"	"	"	"	"	
	Unidentified	**53.3**		mg/kg dry	28.0	7.0	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	28.0	2.8	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**53.3**		mg/kg dry	28.0	2.8	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**53.3**		mg/kg dry	28.0	2.6	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*82*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.17**		mg/kg dry	1.59	0.693	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**88.2**		mg/kg dry	1.59	0.586	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.3**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-4(0.5-1)-1 SB74753-25	60225155	Soil	09-Aug-13 10:15	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.2		µg/kg dry	21.2	15.8	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 21.2		µg/kg dry	21.2	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.2		µg/kg dry	21.2	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.2		µg/kg dry	21.2	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.2		µg/kg dry	21.2	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.2		µg/kg dry	21.2	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.73	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.20**		mg/kg dry	1.56	0.679	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**28.9**		mg/kg dry	1.56	0.574	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.0**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-4(3-4)-1 SB74753-26	60225155	Soil	09-Aug-13 10:17	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 24.6		µg/kg dry	24.6	18.4	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 24.6		µg/kg dry	24.6	22.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 24.6		µg/kg dry	24.6	15.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 24.6		µg/kg dry	24.6	14.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 24.6		µg/kg dry	24.6	12.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 24.6		µg/kg dry	24.6	20.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 24.6		µg/kg dry	24.6	15.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 24.6		µg/kg dry	24.6	22.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 24.6		µg/kg dry	24.6	10.1	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.23**		mg/kg dry	1.62	0.708	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**47.4**		mg/kg dry	1.62	0.599	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**79.1**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-5(0.5-1)-1 SB74753-27	60225155	Soil	09-Aug-13 10:24	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.7		µg/kg dry	21.7	16.2	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 21.7		µg/kg dry	21.7	19.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.7		µg/kg dry	21.7	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.7		µg/kg dry	21.7	13.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.7		µg/kg dry	21.7	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	**566**		µg/kg dry	21.7	12.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**128**		µg/kg dry	21.7	10.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.7		µg/kg dry	21.7	20.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.7		µg/kg dry	21.7	8.96	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.50**		mg/kg dry	1.47	0.642	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**20.5**		mg/kg dry	1.47	0.543	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.6**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-5(3-4)-1 SB74753-28	60225155	Soil	09-Aug-13 10:29	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 209		µg/kg dry	209	53.0	1	SW846 8270D	15-Aug-13	15-Aug-13	JG	1319560	X
208-96-8	Acenaphthylene	< 209		µg/kg dry	209	57.8	1	"	"	"	"	"	X
120-12-7	Anthracene	< 209		µg/kg dry	209	53.2	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 209		µg/kg dry	209	55.9	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 209		µg/kg dry	209	56.8	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 209		µg/kg dry	209	45.3	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 209		µg/kg dry	209	58.1	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 209		µg/kg dry	209	73.9	1	"	"	"	"	"	X
218-01-9	Chrysene	< 209		µg/kg dry	209	58.9	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 209		µg/kg dry	209	53.9	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 209		µg/kg dry	209	58.3	1	"	"	"	"	"	X
86-73-7	Fluorene	< 209		µg/kg dry	209	58.0	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 209		µg/kg dry	209	57.9	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 209		µg/kg dry	209	61.6	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 209		µg/kg dry	209	59.6	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 209		µg/kg dry	209	58.3	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 209		µg/kg dry	209	55.7	1	"	"	"	"	"	X
129-00-0	Pyrene	< 209		µg/kg dry	209	50.4	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*57*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*58*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 24.4		µg/kg dry	24.4	18.2	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 24.4		µg/kg dry	24.4	22.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 24.4		µg/kg dry	24.4	15.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 24.4		µg/kg dry	24.4	14.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 24.4		µg/kg dry	24.4	12.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 24.4		µg/kg dry	24.4	20.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 24.4		µg/kg dry	24.4	15.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 24.4		µg/kg dry	24.4	22.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 24.4		µg/kg dry	24.4	10.1	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 33.3		mg/kg dry	33.3	1.7	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319406	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-5(3-4)-1 SB74753-28	60225155	Soil	09-Aug-13 10:29	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 33.3		mg/kg dry	33.3	3.3	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319406	
68476-31-3	Fuel Oil #4	< 33.3		mg/kg dry	33.3	3.3	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 33.3		mg/kg dry	33.3	8.3	1	"	"	"	"	"	
M09800000	Motor Oil	< 33.3		mg/kg dry	33.3	3.3	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 33.3		mg/kg dry	33.3	8.3	1	"	"	"	"	"	
	Unidentified	< 33.3		mg/kg dry	33.3	8.3	1	"	"	"	"	"	
	Other Oil	< 33.3		mg/kg dry	33.3	3.3	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 33.3		mg/kg dry	33.3	3.3	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 33.3		mg/kg dry	33.3	3.1	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*88*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**69.2**		mg/kg dry	1.82	0.795	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**104**		mg/kg dry	1.82	0.673	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**79.1**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-6(0-0.5)-1 SB74753-29	60225155	Soil	09-Aug-13 10:33	09-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.8		µg/kg dry	19.8	14.8	1	SW846 8082A	13-Aug-13	16-Aug-13	IMR	1319380	X
11104-28-2	Aroclor-1221	< 19.8		µg/kg dry	19.8	17.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.8		µg/kg dry	19.8	12.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.8		µg/kg dry	19.8	11.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.8		µg/kg dry	19.8	10.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**66.2**		µg/kg dry	19.8	16.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**51.4**		µg/kg dry	19.8	9.89	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.8		µg/kg dry	19.8	18.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.8		µg/kg dry	19.8	8.15	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**10.9**		mg/kg dry	1.50	0.654	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**15.9**		mg/kg dry	1.50	0.553	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**96.6**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-6(4-5)-1 SB74753-30	60225155	Soil	09-Aug-13 10:35	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.7		µg/kg dry	20.7	15.5	1	SW846 8082A	13-Aug-13	16-Aug-13	IMR	1319380	X
11104-28-2	Aroclor-1221	< 20.7		µg/kg dry	20.7	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.7		µg/kg dry	20.7	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.7		µg/kg dry	20.7	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.7		µg/kg dry	20.7	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.7		µg/kg dry	20.7	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.7		µg/kg dry	20.7	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.7		µg/kg dry	20.7	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.7		µg/kg dry	20.7	8.55	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.18**		mg/kg dry	1.57	0.683	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**12.9**		mg/kg dry	1.57	0.578	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.0**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-7(0-0.5)-1 SB74753-31	60225155	Soil	09-Aug-13 10:40	09-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.4		µg/kg dry	19.4	14.5	1	SW846 8082A	13-Aug-13	16-Aug-13	IMR	1319380	X
11104-28-2	Aroclor-1221	< 19.4		µg/kg dry	19.4	17.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.4		µg/kg dry	19.4	12.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.4		µg/kg dry	19.4	11.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.4		µg/kg dry	19.4	10.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.4		µg/kg dry	19.4	16.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.4		µg/kg dry	19.4	12.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.4		µg/kg dry	19.4	18.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.4		µg/kg dry	19.4	7.99	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.98**		mg/kg dry	1.38	0.603	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**5.71**		mg/kg dry	1.38	0.510	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**96.0**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-7(4-5)-1 SB74753-32	60225155	Soil	09-Aug-13 10:42	09-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 209	R01	µg/kg dry	209	156	1	SW846 8082A	13-Aug-13	16-Aug-13	IMR	1319380	X
11104-28-2	Aroclor-1221	< 209	R01	µg/kg dry	209	188	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 209	R01	µg/kg dry	209	134	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 209	R01	µg/kg dry	209	126	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 209	R01	µg/kg dry	209	109	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 209	R01	µg/kg dry	209	174	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.9		µg/kg dry	20.9	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.9		µg/kg dry	20.9	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.9		µg/kg dry	20.9	8.62	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 1.49		mg/kg dry	1.49	0.650	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**4.91**		mg/kg dry	1.49	0.549	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.3**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-8(0.5-1)-1 SB74753-33	60225155	Soil	09-Aug-13 10:45	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	16.1	1	SW846 8082A	13-Aug-13	16-Aug-13	IMR	1319380	X
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	19.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.6		µg/kg dry	21.6	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**261**		µg/kg dry	21.6	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**50.6**		µg/kg dry	21.6	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.89	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**43.4**		mg/kg dry	1.49	0.651	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**28.4**		mg/kg dry	1.49	0.551	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.7**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-8(3-4)-1 SB74753-34	60225155	Soil	09-Aug-13 10:47	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 231	R01	µg/kg dry	231	173	1	SW846 8082A	13-Aug-13	16-Aug-13	IMR	1319380	X
11104-28-2	Aroclor-1221	< 231	R01	µg/kg dry	231	208	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 231	R01	µg/kg dry	231	148	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 231	R01	µg/kg dry	231	139	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 231	R01	µg/kg dry	231	120	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 231	R01	µg/kg dry	231	193	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.1		µg/kg dry	23.1	14.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.1		µg/kg dry	23.1	21.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.1		µg/kg dry	23.1	9.53	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**9.84**		mg/kg dry	1.73	0.753	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**81.4**		mg/kg dry	1.73	0.637	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**83.1**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319408 - SW846 3545A										
Blank (1319408-BLK1)						Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Acenaphthene	< 167		µg/kg wet	167						
Acenaphthylene	< 167		µg/kg wet	167						
Anthracene	< 167		µg/kg wet	167						
Benzo (a) anthracene	< 167		µg/kg wet	167						
Benzo (a) pyrene	< 167		µg/kg wet	167						
Benzo (b) fluoranthene	< 167		µg/kg wet	167						
Benzo (g,h,i) perylene	< 167		µg/kg wet	167						
Benzo (k) fluoranthene	< 167		µg/kg wet	167						
Chrysene	< 167		µg/kg wet	167						
Dibenzo (a,h) anthracene	< 167		µg/kg wet	167						
Fluoranthene	< 167		µg/kg wet	167						
Fluorene	< 167		µg/kg wet	167						
Indeno (1,2,3-cd) pyrene	< 167		µg/kg wet	167						
1-Methylnaphthalene	< 167		µg/kg wet	167						
2-Methylnaphthalene	< 167		µg/kg wet	167						
Naphthalene	< 167		µg/kg wet	167						
Phenanthrene	< 167		µg/kg wet	167						
Pyrene	< 167		µg/kg wet	167						
Surrogate: 2-Fluorobiphenyl	*1640*		µg/kg wet		*1670*		*98*	*30-130*		
Surrogate: Terphenyl-dl4	*1860*		µg/kg wet		*1670*		*112*	*30-130*		
LCS (1319408-BS1)						Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Acenaphthene	**1900**		µg/kg wet	167	1670		114	40-140		
Acenaphthylene	**1910**		µg/kg wet	167	1670		115	40-140		
Anthracene	**1710**		µg/kg wet	167	1670		102	40-140		
Benzo (a) anthracene	**1770**		µg/kg wet	167	1670		106	40-140		
Benzo (a) pyrene	**1880**		µg/kg wet	167	1670		113	40-140		
Benzo (b) fluoranthene	**1780**		µg/kg wet	167	1670		107	40-140		
Benzo (g,h,i) perylene	**1790**		µg/kg wet	167	1670		107	40-140		
Benzo (k) fluoranthene	**1910**		µg/kg wet	167	1670		115	40-140		
Chrysene	**1810**		µg/kg wet	167	1670		109	40-140		
Dibenzo (a,h) anthracene	**1980**		µg/kg wet	167	1670		119	40-140		
Fluoranthene	**1760**		µg/kg wet	167	1670		106	40-140		
Fluorene	**1910**		µg/kg wet	167	1670		114	40-140		
Indeno (1,2,3-cd) pyrene	**1970**		µg/kg wet	167	1670		118	40-140		
1-Methylnaphthalene	**1550**		µg/kg wet	167	1670		93	40-140		
2-Methylnaphthalene	**1990**		µg/kg wet	167	1670		119	40-140		
Naphthalene	**1700**		µg/kg wet	167	1670		102	40-140		
Phenanthrene	**1640**		µg/kg wet	167	1670		99	40-140		
Pyrene	**1840**		µg/kg wet	167	1670		110	40-140		
Surrogate: 2-Fluorobiphenyl	*1540*		µg/kg wet		*1670*		*93*	*30-130*		
Surrogate: Terphenyl-dl4	*1720*		µg/kg wet		*1670*		*103*	*30-130*		
Duplicate (1319408-DUP1)			**Source: SB74753-04**			Prepared: 13-Aug-13 Analyzed: 15-Aug-13				
Acenaphthene	< 185		µg/kg dry	185		BRL				30
Acenaphthylene	< 185		µg/kg dry	185		BRL				30
Anthracene	< 185		µg/kg dry	185		BRL				30
Benzo (a) anthracene	< 185		µg/kg dry	185		BRL				30
Benzo (a) pyrene	< 185		µg/kg dry	185		BRL				30
Benzo (b) fluoranthene	< 185		µg/kg dry	185		BRL				30
Benzo (g,h,i) perylene	< 185		µg/kg dry	185		BRL				30
Benzo (k) fluoranthene	< 185		µg/kg dry	185		BRL				30
Chrysene	< 185		µg/kg dry	185		BRL				30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319408 - SW846 3545A										
Duplicate (1319408-DUP1)			**Source: SB74753-04**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Dibenzo (a,h) anthracene	< 185		µg/kg dry	185		BRL				30
Fluoranthene	**69.5**	J	µg/kg dry	185		BRL				30
Fluorene	< 185		µg/kg dry	185		BRL				30
Indeno (1,2,3-cd) pyrene	< 185		µg/kg dry	185		BRL				30
1-Methylnaphthalene	< 185		µg/kg dry	185		BRL				30
2-Methylnaphthalene	< 185		µg/kg dry	185		BRL				30
Naphthalene	< 185		µg/kg dry	185		BRL				30
Phenanthrene	< 185		µg/kg dry	185		BRL				30
Pyrene	**55.0**	J	µg/kg dry	185		BRL				30
Surrogate: 2-Fluorobiphenyl	*1480*		µg/kg dry		*1850*		*80*	*30-130*		
Surrogate: Terphenyl-dl4	*1770*		µg/kg dry		*1850*		*96*	*30-130*		
Matrix Spike (1319408-MS1)			**Source: SB74753-12**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Acenaphthene	**1570**		µg/kg dry	187	1860	BRL	84	40-140		
Acenaphthylene	**1630**		µg/kg dry	187	1860	BRL	88	40-140		
Anthracene	**1660**		µg/kg dry	187	1860	BRL	89	40-140		
Benzo (a) anthracene	**1590**		µg/kg dry	187	1860	BRL	85	40-140		
Benzo (a) pyrene	**1600**		µg/kg dry	187	1860	BRL	86	40-140		
Benzo (b) fluoranthene	**1780**		µg/kg dry	187	1860	BRL	95	40-140		
Benzo (g,h,i) perylene	**1200**		µg/kg dry	187	1860	BRL	64	40-140		
Benzo (k) fluoranthene	**1940**		µg/kg dry	187	1860	BRL	104	40-140		
Chrysene	**1540**		µg/kg dry	187	1860	BRL	82	40-140		
Dibenzo (a,h) anthracene	**1340**		µg/kg dry	187	1860	BRL	72	40-140		
Fluoranthene	**1680**		µg/kg dry	187	1860	83.7	86	40-140		
Fluorene	**1590**		µg/kg dry	187	1860	BRL	85	40-140		
Indeno (1,2,3-cd) pyrene	**1350**		µg/kg dry	187	1860	BRL	72	40-140		
1-Methylnaphthalene	**1480**		µg/kg dry	187	1860	BRL	79	40-140		
2-Methylnaphthalene	**1620**		µg/kg dry	187	1860	BRL	87	40-140		
Naphthalene	**1550**		µg/kg dry	187	1860	BRL	83	40-140		
Phenanthrene	**1630**		µg/kg dry	187	1860	58.5	84	40-140		
Pyrene	**1790**		µg/kg dry	187	1860	70.8	92	40-140		
Surrogate: 2-Fluorobiphenyl	*1400*		µg/kg dry		*1860*		*75*	*30-130*		
Surrogate: Terphenyl-dl4	*1550*		µg/kg dry		*1860*		*83*	*30-130*		
Matrix Spike Dup (1319408-MSD1)			**Source: SB74753-12**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Acenaphthene	**1340**		µg/kg dry	186	1860	BRL	72	40-140	16	30
Acenaphthylene	**1380**		µg/kg dry	186	1860	BRL	74	40-140	16	30
Anthracene	**1430**		µg/kg dry	186	1860	BRL	77	40-140	15	30
Benzo (a) anthracene	**1320**		µg/kg dry	186	1860	BRL	71	40-140	18	30
Benzo (a) pyrene	**1330**		µg/kg dry	186	1860	BRL	71	40-140	18	30
Benzo (b) fluoranthene	**1350**		µg/kg dry	186	1860	BRL	73	40-140	27	30
Benzo (g,h,i) perylene	**1390**		µg/kg dry	186	1860	BRL	75	40-140	15	30
Benzo (k) fluoranthene	**1300**	QR2	µg/kg dry	186	1860	BRL	70	40-140	39	30
Chrysene	**1300**		µg/kg dry	186	1860	BRL	70	40-140	17	30
Dibenzo (a,h) anthracene	**1590**		µg/kg dry	186	1860	BRL	86	40-140	17	30
Fluoranthene	**1330**		µg/kg dry	186	1860	83.7	67	40-140	24	30
Fluorene	**1340**		µg/kg dry	186	1860	BRL	72	40-140	16	30
Indeno (1,2,3-cd) pyrene	**1570**		µg/kg dry	186	1860	BRL	84	40-140	15	30
1-Methylnaphthalene	**1220**		µg/kg dry	186	1860	BRL	65	40-140	19	30
2-Methylnaphthalene	**1400**		µg/kg dry	186	1860	BRL	76	40-140	14	30
Naphthalene	**1360**		µg/kg dry	186	1860	BRL	73	40-140	13	30
Phenanthrene	**1380**		µg/kg dry	186	1860	58.5	71	40-140	17	30
Pyrene	**1430**		µg/kg dry	186	1860	70.8	73	40-140	23	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319408 - SW846 3545A										
Matrix Spike Dup (1319408-MSD1)			**Source: SB74753-12**			Prepared: 13-Aug-13 Analyzed: 15-Aug-13				
Surrogate: 2-Fluorobiphenyl	*1320*		µg/kg dry		*1860*		*71*	*30-130*		
Surrogate: Terphenyl-dl4	*1340*		µg/kg dry		*1860*		*72*	*30-130*		
Batch 1319560 - SW846 3545A										
Blank (1319560-BLK1)						Prepared: 15-Aug-13 Analyzed: 16-Aug-13				
Acenaphthene	< 167		µg/kg wet	167						
Acenaphthylene	< 167		µg/kg wet	167						
Anthracene	< 167		µg/kg wet	167						
Benzo (a) anthracene	< 167		µg/kg wet	167						
Benzo (a) pyrene	< 167		µg/kg wet	167						
Benzo (b) fluoranthene	< 167		µg/kg wet	167						
Benzo (g,h,i) perylene	< 167		µg/kg wet	167						
Benzo (k) fluoranthene	< 167		µg/kg wet	167						
Chrysene	< 167		µg/kg wet	167						
Dibenzo (a,h) anthracene	< 167		µg/kg wet	167						
Fluoranthene	< 167		µg/kg wet	167						
Fluorene	< 167		µg/kg wet	167						
Indeno (1,2,3-cd) pyrene	< 167		µg/kg wet	167						
1-Methylnaphthalene	< 167		µg/kg wet	167						
2-Methylnaphthalene	< 167		µg/kg wet	167						
Naphthalene	< 167		µg/kg wet	167						
Phenanthrene	< 167		µg/kg wet	167						
Pyrene	< 167		µg/kg wet	167						
Surrogate: 2-Fluorobiphenyl	*1830*		µg/kg wet		*1670*		*110*	*30-130*		
Surrogate: Terphenyl-dl4	*1870*		µg/kg wet		*1670*		*112*	*30-130*		
LCS (1319560-BS1)						Prepared & Analyzed: 15-Aug-13				
Acenaphthene	**1700**		µg/kg wet	167	1670		102	40-140		
Acenaphthylene	**1810**		µg/kg wet	167	1670		109	40-140		
Anthracene	**1750**		µg/kg wet	167	1670		105	40-140		
Benzo (a) anthracene	**1720**		µg/kg wet	167	1670		103	40-140		
Benzo (a) pyrene	**1740**		µg/kg wet	167	1670		104	40-140		
Benzo (b) fluoranthene	**1630**		µg/kg wet	167	1670		98	40-140		
Benzo (g,h,i) perylene	**1460**		µg/kg wet	167	1670		88	40-140		
Benzo (k) fluoranthene	**1680**		µg/kg wet	167	1670		101	40-140		
Chrysene	**1690**		µg/kg wet	167	1670		101	40-140		
Dibenzo (a,h) anthracene	**1530**		µg/kg wet	167	1670		92	40-140		
Fluoranthene	**1720**		µg/kg wet	167	1670		103	40-140		
Fluorene	**1730**		µg/kg wet	167	1670		104	40-140		
Indeno (1,2,3-cd) pyrene	**1580**		µg/kg wet	167	1670		95	40-140		
1-Methylnaphthalene	**1550**		µg/kg wet	167	1670		93	40-140		
2-Methylnaphthalene	**1770**		µg/kg wet	167	1670		106	40-140		
Naphthalene	**1690**		µg/kg wet	167	1670		101	40-140		
Phenanthrene	**1690**		µg/kg wet	167	1670		102	40-140		
Pyrene	**1830**		µg/kg wet	167	1670		110	40-140		
Surrogate: 2-Fluorobiphenyl	*1550*		µg/kg wet		*1670*		*93*	*30-130*		
Surrogate: Terphenyl-dl4	*1700*		µg/kg wet		*1670*		*102*	*30-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319176 - SW846 3540C										
Blank (1319176-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*12.0*		µg/kg wet		*20.0*		*60*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
LCS (1319176-BS1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**253**		µg/kg wet	20.0	250		101	40-140		
Aroclor-1016 [2C]	**234**		µg/kg wet	20.0	250		94	40-140		
Aroclor-1260	**171**		µg/kg wet	20.0	250		68	40-140		
Aroclor-1260 [2C]	**185**		µg/kg wet	20.0	250		74	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
LCS Dup (1319176-BSD1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**234**		µg/kg wet	20.0	250		94	40-140	8	30
Aroclor-1016 [2C]	**231**		µg/kg wet	20.0	250		92	40-140	1	30
Aroclor-1260	**176**		µg/kg wet	20.0	250		70	40-140	3	30
Aroclor-1260 [2C]	**183**		µg/kg wet	20.0	250		73	40-140	1	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
Batch 1319379 - SW846 3540C										
Blank (1319379-BLK1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319379 - SW846 3540C										
Blank (1319379-BLK1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
LCS (1319379-BS1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**241**		µg/kg wet	20.0	250		96	40-140		
Aroclor-1016 [2C]	**253**		µg/kg wet	20.0	250		101	40-140		
Aroclor-1260	**209**		µg/kg wet	20.0	250		84	40-140		
Aroclor-1260 [2C]	**202**		µg/kg wet	20.0	250		81	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
LCS Dup (1319379-BSD1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**240**		µg/kg wet	20.0	250		96	40-140	0.4	30
Aroclor-1016 [2C]	**221**		µg/kg wet	20.0	250		88	40-140	14	30
Aroclor-1260	**221**		µg/kg wet	20.0	250		88	40-140	6	30
Aroclor-1260 [2C]	**199**		µg/kg wet	20.0	250		80	40-140	1	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Duplicate (1319379-DUP1)			**Source: SB74753-23**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1016 [2C]	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1221	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1221 [2C]	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1232	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1232 [2C]	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1242	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1242 [2C]	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1248	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1248 [2C]	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1254	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1254 [2C]	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1260	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1260 [2C]	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1262	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1262 [2C]	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1268	< 21.1		µg/kg dry	21.1		BRL				30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319379 - SW846 3540C										
Duplicate (1319379-DUP1)			**Source: SB74753-23**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1268 [2C]	< 21.1		µg/kg dry	21.1		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.1*		µg/kg dry		*21.1*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*23.2*		µg/kg dry		*21.1*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.1*		µg/kg dry		*21.1*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg dry		*21.1*		*90*	*30-150*		
Matrix Spike (1319379-MS1)			**Source: SB74753-23**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**273**		µg/kg dry	21.1	264	BRL	103	40-140		
Aroclor-1016 [2C]	**281**		µg/kg dry	21.1	264	BRL	106	40-140		
Aroclor-1260	**255**		µg/kg dry	21.1	264	BRL	96	40-140		
Aroclor-1260 [2C]	**272**		µg/kg dry	21.1	264	BRL	103	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*24.3*		µg/kg dry		*21.1*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*24.3*		µg/kg dry		*21.1*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.2*		µg/kg dry		*21.1*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*22.2*		µg/kg dry		*21.1*		*105*	*30-150*		
Matrix Spike Dup (1319379-MSD1)			**Source: SB74753-23**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**243**		µg/kg dry	21.0	263	BRL	92	40-140	11	30
Aroclor-1016 [2C]	**242**		µg/kg dry	21.0	263	BRL	92	40-140	15	30
Aroclor-1260	**225**		µg/kg dry	21.0	263	BRL	86	40-140	12	30
Aroclor-1260 [2C]	**228**		µg/kg dry	21.0	263	BRL	87	40-140	17	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.1*		µg/kg dry		*21.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.1*		µg/kg dry		*21.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.0*		µg/kg dry		*21.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.9*		µg/kg dry		*21.0*		*90*	*30-150*		
Batch 1319380 - SW846 3540C										
Blank (1319380-BLK1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*13.0*		µg/kg wet		*20.0*		*65*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
LCS (1319380-BS1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**234**		µg/kg wet	20.0	250		94	40-140		
Aroclor-1016 [2C]	**243**		µg/kg wet	20.0	250		97	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319380 - SW846 3540C										
LCS (1319380-BS1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1260	**187**		µg/kg wet	20.0	250		75	40-140		
Aroclor-1260 [2C]	**205**		µg/kg wet	20.0	250		82	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
LCS Dup (1319380-BSD1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**235**		µg/kg wet	20.0	250		94	40-140	0.4	30
Aroclor-1016 [2C]	**242**		µg/kg wet	20.0	250		97	40-140	0.4	30
Aroclor-1260	**190**		µg/kg wet	20.0	250		76	40-140	2	30
Aroclor-1260 [2C]	**208**		µg/kg wet	20.0	250		83	40-140	1	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Duplicate (1319380-DUP1)			**Source: SB74753-33**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1016 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1221	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1221 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1232	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1232 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1242	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1242 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1248	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1248 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1254	**216**		µg/kg dry	21.6		261			19	30
Aroclor-1254 [2C]	**206**		µg/kg dry	21.6		231			11	30
Aroclor-1260	**50.8**		µg/kg dry	21.6		50.6			0.3	30
Aroclor-1260 [2C]	**50.8**		µg/kg dry	21.6		47.4			7	30
Aroclor-1262	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1262 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1268	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1268 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.7*		µg/kg dry		*21.6*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*15.1*		µg/kg dry		*21.6*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.1*		µg/kg dry		*21.6*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*14.1*		µg/kg dry		*21.6*		*65*	*30-150*		
Matrix Spike (1319380-MS1)			**Source: SB74753-33**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**306**		µg/kg dry	20.9	261	BRL	117	40-140		
Aroclor-1016 [2C]	**291**		µg/kg dry	20.9	261	BRL	112	40-140		
Aroclor-1260	**210**		µg/kg dry	20.9	261	50.6	61	40-140		
Aroclor-1260 [2C]	**215**		µg/kg dry	20.9	261	47.4	64	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.9*		µg/kg dry		*20.9*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*17.7*		µg/kg dry		*20.9*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.6*		µg/kg dry		*20.9*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*14.6*		µg/kg dry		*20.9*		*70*	*30-150*		
Matrix Spike Dup (1319380-MSD1)			**Source: SB74753-33**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**330**		µg/kg dry	21.4	268	BRL	123	40-140	5	30
Aroclor-1016 [2C]	**273**		µg/kg dry	21.4	268	BRL	102	40-140	9	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319380 - SW846 3540C										
Matrix Spike Dup (1319380-MSD1)			**Source: SB74753-33**			Prepared: 13-Aug-13 Analyzed: 15-Aug-13				
Aroclor-1254	**282**		µg/kg dry	21.4		261		40-140		30
Aroclor-1254 [2C]	**266**		µg/kg dry	21.4		231		40-140		30
Aroclor-1260	**219**		µg/kg dry	21.4	268	50.6	63	40-140	3	30
Aroclor-1260 [2C]	**211**		µg/kg dry	21.4	268	47.4	61	40-140	5	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.6*		µg/kg dry		*21.4*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*18.2*		µg/kg dry		*21.4*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.2*		µg/kg dry		*21.4*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.1*		µg/kg dry		*21.4*		*75*	*30-150*		

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319406 - SW846 3550C										
Blank (1319406-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Gasoline	< 26.6		mg/kg wet	26.6						
Fuel Oil #2	< 26.6		mg/kg wet	26.6						
Fuel Oil #4	< 26.6		mg/kg wet	26.6						
Fuel Oil #6	< 26.6		mg/kg wet	26.6						
Motor Oil	< 26.6		mg/kg wet	26.6						
Aviation Fuel	< 26.6		mg/kg wet	26.6						
Unidentified	< 26.6		mg/kg wet	26.6						
Other Oil	< 26.6		mg/kg wet	26.6						
Total Petroleum Hydrocarbons	< 26.6		mg/kg wet	26.6						
C9-C36 Aliphatic Hydrocarbons	< 26.6		mg/kg wet	26.6						
n-Nonadecane	< 0.005		mg/kg wet	0.005						
n-Nonane	< 0.005		mg/kg wet	0.005						
n-Decane	< 0.005		mg/kg wet	0.005						
n-Dodecane	< 0.005		mg/kg wet	0.005						
n-Tetradecane	< 0.005		mg/kg wet	0.005						
n-Hexadecane	< 0.005		mg/kg wet	0.005						
n-Octadecane	< 0.005		mg/kg wet	0.005						
n-Eicosane	< 0.005		mg/kg wet	0.005						
n-Docosane	< 0.005		mg/kg wet	0.005						
n-Tetracosane	< 0.005		mg/kg wet	0.005						
n-Hexacosane	< 0.005		mg/kg wet	0.005						
n-Octacosane	< 0.005		mg/kg wet	0.005						
n-Triacontane	< 0.005		mg/kg wet	0.005						
n-Hexatriacontane	< 0.005		mg/kg wet	0.005						
Surrogate: 1-Chlorooctadecane	*1.74*		mg/kg wet		*3.33*		*52*	*50-150*		
LCS (1319406-BS1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
C9-C36 Aliphatic Hydrocarbons	**59.2**		mg/kg wet	26.6	93.3		63	60-120		
Surrogate: 1-Chlorooctadecane	*1.97*		mg/kg wet		*3.33*		*59*	*50-150*		
Duplicate (1319406-DUP1)			**Source: SB74753-24**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Gasoline	< 28.3		mg/kg dry	28.3		BRL				50
Fuel Oil #2	< 28.3		mg/kg dry	28.3		BRL				50
Fuel Oil #4	< 28.3		mg/kg dry	28.3		BRL				50
Fuel Oil #6	< 28.3		mg/kg dry	28.3		BRL				50
Motor Oil	< 28.3		mg/kg dry	28.3		BRL				50
Aviation Fuel	< 28.3		mg/kg dry	28.3		BRL				50
Unidentified	**33.2**		mg/kg dry	28.3		53.3			46	50
Other Oil	**Calculated as**		mg/kg dry	28.3		Calculated as				50
Total Petroleum Hydrocarbons	**33.2**		mg/kg dry	28.3		53.3			46	50
C9-C36 Aliphatic Hydrocarbons	**33.2**		mg/kg dry	28.3		53.3			46	50
Surrogate: 1-Chlorooctadecane	*3.94*		mg/kg dry		*3.55*		*111*	*50-150*		
Matrix Spike (1319406-MS1)			**Source: SB74753-24**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
C9-C36 Aliphatic Hydrocarbons	**97.0**	QM7	mg/kg dry	28.2	98.9	53.3	44	50-150		
Surrogate: 1-Chlorooctadecane	*2.78*		mg/kg dry		*3.53*		*79*	*50-150*		
Matrix Spike Dup (1319406-MSD1)			**Source: SB74753-24**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
C9-C36 Aliphatic Hydrocarbons	**132**	QR5	mg/kg dry	28.3	99.3	53.3	79	50-150	57	30
Surrogate: 1-Chlorooctadecane	*3.27*		mg/kg dry		*3.55*		*92*	*50-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319447 - SW846 3050B										
Blank (1319447-BLK1)					Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Arsenic	< 1.30		mg/kg wet	1.30						
Lead	< 1.30		mg/kg wet	1.30						
Duplicate (1319447-DUP1)			**Source: SB74753-17**		Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Lead	**7.86**		mg/kg dry	1.59		8.04			2	20
Arsenic	**1.77**	QR8	mg/kg dry	1.59		1.33			28	20
Matrix Spike (1319447-MS1)			**Source: SB74753-17**		Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**92.5**		mg/kg dry	1.37	114	1.33	80	75-125		
Lead	**93.0**		mg/kg dry	1.37	114	8.04	75	75-125		
Matrix Spike Dup (1319447-MSD1)			**Source: SB74753-17**		Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**90.7**		mg/kg dry	1.35	112	1.33	79	75-125	2	20
Lead	**92.4**		mg/kg dry	1.35	112	8.04	75	75-125	0.6	20
Post Spike (1319447-PS1)			**Source: SB74753-17**		Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Lead	**113**		mg/kg dry	1.58	131	8.04	80	80-120		
Arsenic	**110**		mg/kg dry	1.58	131	1.33	83	80-120		
Reference (1319447-SRM1)					Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Lead	**63.5**		mg/kg wet	1.50	68.6		93	83.82-116.91		
Arsenic	**85.0**		mg/kg wet	1.50	91.9		92	82.97-117.58		
Reference (1319447-SRM2)					Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Lead	**62.0**		mg/kg wet	1.50	68.7		90	83.82-116.91		
Arsenic	**83.1**		mg/kg wet	1.50	91.9		90	82.97-117.58		
Batch 1319448 - SW846 3050B										
Blank (1319448-BLK1)					Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Lead	< 1.25		mg/kg wet	1.25						
Arsenic	< 1.25		mg/kg wet	1.25						
Duplicate (1319448-DUP1)			**Source: SB74753-19**		Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Lead	**11.6**		mg/kg dry	1.39		12.3			6	20
Arsenic	**4.60**		mg/kg dry	1.39		4.56			0.9	20
Matrix Spike (1319448-MS1)			**Source: SB74753-19**		Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Lead	**109**	QM8	mg/kg dry	1.59	132	12.3	73	75-125		
Arsenic	**106**		mg/kg dry	1.59	132	4.56	77	75-125		
Matrix Spike Dup (1319448-MSD1)			**Source: SB74753-19**		Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**111**		mg/kg dry	1.58	132	4.56	81	75-125	4	20
Lead	**114**		mg/kg dry	1.58	132	12.3	77	75-125	5	20
Post Spike (1319448-PS1)			**Source: SB74753-19**		Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Lead	**112**		mg/kg dry	1.49	124	12.3	80	80-120		
Arsenic	**108**		mg/kg dry	1.49	124	4.56	83	80-120		
Reference (1319448-SRM1)					Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Lead	**60.0**		mg/kg wet	1.50	68.7		87	83.82-116.91		
Arsenic	**82.8**		mg/kg wet	1.50	91.9		90	82.97-117.58		
Reference (1319448-SRM2)					Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**79.5**		mg/kg wet	1.50	91.9		87	82.97-117.58		
Lead	**59.1**		mg/kg wet	1.50	68.7		86	83.82-116.91		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319180 - General Preparation										
Duplicate (1319180-DUP1)			**Source: SB74753-04**			Prepared & Analyzed: 12-Aug-13				
% Solids	**89.2**		%			89.4			0.3	20
Batch 1319181 - General Preparation										
Duplicate (1319181-DUP1)			**Source: SB74753-24**			Prepared & Analyzed: 12-Aug-13				
% Solids	**93.2**		%			92.3			1	20

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S304818				
Initial Cal Check (S304818-ICV1)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.270728E+08	-2.8	30
n-Nonadecane	3.561546E+08	3.675153E+08	3.2	30
n-Nonane	3.732875E+08	3.681448E+08	-1.4	30
n-Decane	3.651436E+08	3.651315E+08	-0.003	30
n-Dodecane	3.48398E+08	3.592906E+08	3.1	30
n-Tetradecane	3.588449E+08	3.665299E+08	2.1	30
n-Hexadecane	3.756608E+08	3.74015E+08	-0.4	30
n-Octadecane	3.775606E+08	3.791863E+08	0.4	30
n-Eicosane	3.825055E+08	3.811256E+08	-0.4	30
n-Docosane	3.815533E+08	3.84155E+08	0.7	30
n-Tetracosane	3.82641E+08	3.839073E+08	0.3	30
n-Hexacosane	3.864596E+08	3.855051E+08	-0.2	30
n-Octacosane	3.839113E+08	3.752925E+08	-2.2	30
n-Triacontane	3.841358E+08	3.849129E+08	0.2	30
n-Hexatriacontane	3.752619E+08	3.758944E+08	0.2	30

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309685				
Calibration Check (S309685-CCV2)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.075142E+08	-8.4	30
n-Nonadecane	3.561546E+08	3.466918E+08	-2.7	30
n-Nonane	3.732875E+08	3.495138E+08	-6.4	30
n-Decane	3.651436E+08	3.504604E+08	-4.0	30
n-Dodecane	3.48398E+08	3.469559E+08	-0.4	30
n-Tetradecane	3.588449E+08	3.471714E+08	-3.3	30
n-Hexadecane	3.756608E+08	3.48455E+08	-7.2	30
n-Octadecane	3.775606E+08	3.49641E+08	-7.4	30
n-Eicosane	3.825055E+08	3.49437E+08	-8.6	30
n-Docosane	3.815533E+08	3.456723E+08	-9.4	30
n-Tetracosane	3.82641E+08	3.436526E+08	-10.2	30
n-Hexacosane	3.864596E+08	3.44161E+08	-10.9	30
n-Octacosane	3.839113E+08	3.400478E+08	-11.4	30
n-Triacontane	3.841358E+08	3.396189E+08	-11.6	30
n-Hexatriacontane	3.752619E+08	3.351177E+08	-10.7	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309685				
Calibration Check (S309685-CCV4)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.575214E+08	5.9	30
n-Nonadecane	3.561546E+08	3.433E+08	-3.6	30
n-Nonane	3.732875E+08	3.428918E+08	-8.1	30
n-Decane	3.651436E+08	3.443258E+08	-5.7	30
n-Dodecane	3.48398E+08	3.405914E+08	-2.2	30
n-Tetradecane	3.588449E+08	3.428566E+08	-4.5	30
n-Hexadecane	3.756608E+08	3.456312E+08	-8.0	30
n-Octadecane	3.775606E+08	3.463822E+08	-8.3	30
n-Eicosane	3.825055E+08	3.457196E+08	-9.6	30
n-Docosane	3.815533E+08	3.438138E+08	-9.9	30
n-Tetracosane	3.82641E+08	3.417747E+08	-10.7	30
n-Hexacosane	3.864596E+08	3.427532E+08	-11.3	30
n-Octacosane	3.839113E+08	3.382936E+08	-11.9	30
n-Triacontane	3.841358E+08	3.392198E+08	-11.7	30
n-Hexatriacontane	3.752619E+08	3.36684E+08	-10.3	30

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309779				
Calibration Check (S309779-CCV2)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	3.820734E+08	-15.6	30
n-Nonadecane	3.561546E+08	3.15197E+08	-11.5	30
n-Nonane	3.732875E+08	3.134779E+08	-16.0	30
n-Decane	3.651436E+08	3.148152E+08	-13.8	30
n-Dodecane	3.48398E+08	3.122192E+08	-10.4	30
n-Tetradecane	3.588449E+08	3.1435E+08	-12.4	30
n-Hexadecane	3.756608E+08	3.164253E+08	-15.8	30
n-Octadecane	3.775606E+08	3.178924E+08	-15.8	30
n-Eicosane	3.825055E+08	3.175303E+08	-17.0	30
n-Docosane	3.815533E+08	3.147603E+08	-17.5	30
n-Tetracosane	3.82641E+08	3.136506E+08	-18.0	30
n-Hexacosane	3.864596E+08	3.151899E+08	-18.4	30
n-Octacosane	3.839113E+08	3.128169E+08	-18.5	30
n-Triacontane	3.841358E+08	3.14028E+08	-18.3	30
n-Hexatriacontane	3.752619E+08	3.108408E+08	-17.2	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309779				
Calibration Check (S309779-CCV4)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.121591E+08	-7.1	30
n-Nonadecane	3.561546E+08	3.305964E+08	-7.2	30
n-Nonane	3.732875E+08	3.247446E+08	-13.0	30
n-Decane	3.651436E+08	3.273237E+08	-10.4	30
n-Dodecane	3.48398E+08	3.252978E+08	-6.6	30
n-Tetradecane	3.588449E+08	3.289273E+08	-8.3	30
n-Hexadecane	3.756608E+08	3.3226E+08	-11.6	30
n-Octadecane	3.775606E+08	3.33297E+08	-11.7	30
n-Eicosane	3.825055E+08	3.325118E+08	-13.1	30
n-Docosane	3.815533E+08	3.301674E+08	-13.5	30
n-Tetracosane	3.82641E+08	3.286824E+08	-14.1	30
n-Hexacosane	3.864596E+08	3.294982E+08	-14.7	30
n-Octacosane	3.839113E+08	3.25884E+08	-15.1	30
n-Triacontane	3.841358E+08	3.261669E+08	-15.1	30
n-Hexatriacontane	3.752619E+08	3.257682E+08	-13.2	30

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM8	The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR5	RPD out of acceptance range.
QR8	Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
R01	The Reporting Limit has been raised to account for matrix interference.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin and waste automobile oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as Calculated as.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk
Nicole Leja

SB74753UK

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 4

Special Handling: 5
- ☒ Standard TAT - ~~7 to 10~~ business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr.
Rocky Hill CT

Telephone #: 800 263 5800
Project Mgr. Malcolm Bieler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Greenwich High School
Location: Greenwich State: CT
Sampler(s): M. Rood & J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCB - Soil Wipe	Arsenic, Lead	ETPH	VPHs					
74753-01	MB-14(0.5-1)-1	8/9/13	8:20	G	SO		1			X	X							
02	MB-14(1-2)-1	8/9/13	8:22	G	SO		1			X	X							
03	MB-13(0-0.5)-1	8/9/13	8:25	G	SO		1			X	X							
04	MB-13(2-3)-1	8/9/13	8:27	G	SO		1			X	X	X	X					
05	MB-12(0.5-1)-1	8/9/13	8:30	G	SO		1			X	X							
06	MB-12(3-4)-1	8/9/13	8:32	G	SO		1			X	X							
07	MB-11(0-0.5)-1	8/9/13	8:33	G	SO		1			X	X							
08	MB-11(4-5)-1	8/9/13	8:35	G	SO		1			X	X							
09	MB-10(0.5-1)-1	8/9/13	8:40	G	SO		1			X	X							
10	MB-10(2-3)-1	8/9/13	8:42	G	SO		1			X	X							

Relinquished by:	Received by:	Date:	Time:	Temp°C
		8/9/13	4:00	
		8/9/13		

☒ EDD Format Equis
☒ E-mail to Malcolm.bieler@aecom.com
Coleen.scott@aecom.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____
State-specific reporting standards:

MA DEP MCP CAM Report: Yes ☐ No ☒
CT DPH RCP Report: Yes ☒ No ☐

SB74753 LR

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 4

Special Handling: 5
- [x] Standard TAT - ~~7 to 10~~ business days
- [ ] Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECom
500 Enterprise Dr.
Rocky Hill CT

Telephone #: 860 263 5806
Project Mgr. Malcolm Beder

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Cromwell High School
Location: Cromwell State: CT
Sampler(s): M. Reed + J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCB-soxhlet	Arsenic, Lead	TPHd	EPH					
74753-11	MB-9 (0.5-1)-1	8/9/13	8:30	G	SO		1			X	X	X						
12	MB-9 (3-4)-1	8/9/13	8:52	G	SO		1			X	X	X	X					
13	MB-35 (0-0.5)-1	8/9/13	9:03	G	SO		1			X	X							
14	MB-35 (1-2)-1	8/9/13	9:07	G	SO		1			X	X							
15	MB-35 (4-5)-1	8/9/13	9:09	G	SO		1			X	X							
16	MB-24 (0.5-1)-1	8/9/13	9:12	G	SO		1			X	X							
17	MB-24 (1-2)-1	8/9/13	9:14	G	SO		1			X	X							
18	MB-24 (3-4)-1	8/9/13	9:16	G	SO		1			X	X							
19	MB-3 (0.5-1)-1	8/9/13	9:23	G	SO		1			X	X							
20	MB-3 (2-3)-1	8/9/13	9:27	G	SO		1			X	X							

Relinquished by:	Received by:	Date:	Time:	Temp °C
		8/9/13	4:02	
		8/9/13	1940	

MA DEP MCP CAM Report: Yes ☐ No ☒
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

☒ EDD Format EQUIS
☒ E-mail to Malcolm.Beder@aecom.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

2.5 / 12.5 TR01

SB74753 OK

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 4

Special Handling: S
- ☑ Standard TAT - ~~7 to 10~~ business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr
Rocky Hill CT

Telephone #: 800 243 5800
Project Mgr. Malcolm Butler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Granby High School
Location: Granby State: CT
Sampler(s): M. Rodl + J. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: ACB - Soils	Arsenic, Lead	ETPH	PAHs					
74753-21	MB-2(0-0.5)-1	8/9/13	9:40	G	SO		1			X	Y							
22	MB-2(1-2)-1	8/9/13	9:42	G	SO		1			X	X							
23	MB-1(0-0.5)-1	8/9/13	9:45	G	SO		1			X	X							
24	MB-1(2-3)-1	8/9/13	9:47	G	SO		1			X	X	X	X					
25	MB-4(0.5-1)-1	8/9/13	10:15	G	SO		1			X	X							
26	MB-4(3-4)-1	8/9/13	10:17	G	SO		1			X	X							
27	MB-5(0.5-1)-1	8/9/13	10:24	G	SO		1			X	Y							
28	MB-5(3-4)-1	8/9/13	10:24	G	SO		2			X	X	X	Y					
29	MB-6(0-0.5)-1	8/9/13	10:33	G	SO		2			X	X							
30	MB-6(4-5)-1	8/9/13	10:33	G	SO		2			X	Y							

MA DEP MCP CAM Report: Yes ☐ No ☒
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp °C
		8/9/13	4:00	
		8/9/13	1940	

☒ EDD Format EQUIS
☒ E-mail to Malcolm.Butler@aecom.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

2 S/C 4 S IR 01

SB74753 OK

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 4 of 4

Special Handling: 5
- ☒ Standard TAT - ~~7 to 10~~ business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr
Rocky Hill CT

Telephone #: 860 263 5900
Project Mgr. Malcolm Bielen

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Greenwich High School
Location: Greenwich State: CT
Sampler(s): M. Read & J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PLB Soxhlet	Arsenic, Lead	ETPH	PAHs
74753-31	MB-7(0-0.5)-1	8/9/13	10:40	G	SO		2			X	X		
32	MB-7(4-5)-1	8/9/13	10:42	G	SO		2			X	X		
33	MB-8(0.5-1)-1	8/9/13	10:45	G	SO		2			X	X		
34	MB-8(3-4)-1	8/9/13	10:41	G	SO		2			X	X		

MA DEP MCP CAM Report: Yes ☐ No ☒
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
	JH	8/9/13	4:00	
		8/9/13	1940	

☒ EDD Format EQUIS
☒ E-mail to malcolm.bielen@aecom.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

2.5 / 0 / 2.5 IR

Report Date:
16-Aug-13 15:06

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: Greenwich HS - Greenwich, CT
Project #: 60225155

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74753-01	MB-14(.5-1)-1	Soil	09-Aug-13 08:20	09-Aug-13 19:40
SB74753-02	MB-14(1-2)-1	Soil	09-Aug-13 08:22	09-Aug-13 19:40
SB74753-03	MB-13(0-0.5)-1	Soil	09-Aug-13 08:25	09-Aug-13 19:40
SB74753-04	MB-13(2-3)-1	Soil	09-Aug-13 08:27	09-Aug-13 19:40
SB74753-05	MB-12(0.5-1)-1	Soil	09-Aug-13 08:30	09-Aug-13 19:40
SB74753-06	MB-12(3-4)-1	Soil	09-Aug-13 08:32	09-Aug-13 19:40
SB74753-07	MB-11(0-0.5)-1	Soil	09-Aug-13 08:33	09-Aug-13 19:40
SB74753-08	MB-11(4-5)-1	Soil	09-Aug-13 08:35	09-Aug-13 19:40
SB74753-09	MB-10(0.5-1)-1	Soil	09-Aug-13 08:40	09-Aug-13 19:40
SB74753-10	MB-10(2-3)-1	Soil	09-Aug-13 08:42	09-Aug-13 19:40
SB74753-11	MB-9(0.5-1)-1	Soil	09-Aug-13 08:50	09-Aug-13 19:40
SB74753-12	MB-9(3-4)-1	Soil	09-Aug-13 08:52	09-Aug-13 19:40
SB74753-13	MB-35(0-0.5)-1	Soil	09-Aug-13 09:05	09-Aug-13 19:40
SB74753-14	MB-35(1-2)-1	Soil	09-Aug-13 09:07	09-Aug-13 19:40
SB74753-15	MB-35(4-5)-1	Soil	09-Aug-13 09:09	09-Aug-13 19:40
SB74753-16	MB-24(0.5-1)-1	Soil	09-Aug-13 09:12	09-Aug-13 19:40
SB74753-17	MB-24(1-2)-1	Soil	09-Aug-13 09:14	09-Aug-13 19:40
SB74753-18	MB-24(3-4)-1	Soil	09-Aug-13 09:16	09-Aug-13 19:40
SB74753-19	MB-3(0.5-1)-1	Soil	09-Aug-13 09:25	09-Aug-13 19:40
SB74753-20	MB-3(2-3)-1	Soil	09-Aug-13 09:27	09-Aug-13 19:40
SB74753-21	MB-2(0-0.5)-1	Soil	09-Aug-13 09:40	09-Aug-13 19:40
SB74753-22	MB-2(1-2)-1	Soil	09-Aug-13 09:42	09-Aug-13 19:40
SB74753-23	MB-1(0-0.5)-1	Soil	09-Aug-13 09:45	09-Aug-13 19:40
SB74753-24	MB-1(2-3)-1	Soil	09-Aug-13 09:47	09-Aug-13 19:40
SB74753-25	MB-4(0.5-1)-1	Soil	09-Aug-13 10:15	09-Aug-13 19:40
SB74753-26	MB-4(3-4)-1	Soil	09-Aug-13 10:17	09-Aug-13 19:40
SB74753-27	MB-5(0.5-1)-1	Soil	09-Aug-13 10:24	09-Aug-13 19:40
SB74753-28	MB-5(3-4)-1	Soil	09-Aug-13 10:29	09-Aug-13 19:40
SB74753-29	MB-6(0-0.5)-1	Soil	09-Aug-13 10:33	09-Aug-13 19:40
SB74753-30	MB-6(4-5)-1	Soil	09-Aug-13 10:35	09-Aug-13 19:40
SB74753-31	MB-7(0-0.5)-1	Soil	09-Aug-13 10:40	09-Aug-13 19:40
SB74753-32	MB-7(4-5)-1	Soil	09-Aug-13 10:42	09-Aug-13 19:40
SB74753-33	MB-8(0.5-1)-1	Soil	09-Aug-13 10:45	09-Aug-13 19:40
SB74753-34	MB-8(3-4)-1	Soil	09-Aug-13 10:47	09-Aug-13 19:40

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 64 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: Greenwich HS - Greenwich, CT

Project Number: 60225155

Sampling Date(s):
8/9/2013

Laboratory Sample ID(s):
SB74753-01 through SB74753-34

RCP Methods Used:

CT ETPH

SW846 6010C

SW846 8082A

SW846 8270D

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/16/2013

CASE NARRATIVE:

The samples were received 2.5 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

CT ETPH

Spikes:

1319406-MS1 *Source: SB74753-24*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

C9-C36 Aliphatic Hydrocarbons

1319406-MSD1 *Source: SB74753-24*

RPD out of acceptance range.

C9-C36 Aliphatic Hydrocarbons

SW846 6010C

Spikes:

1319448-MS1 *Source: SB74753-19*

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

Lead

Duplicates:

1319447-DUP1 *Source: SB74753-17*

SW846 6010C

Duplicates:

1319447-DUP1 *Source: SB74753-17*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Arsenic

Samples:

SB74753-16 *MB-24(0.5-1)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Lead

The Reporting Limit has been raised to account for matrix interference.

Arsenic

SW846 8082A

Samples:

SB74753-06 *MB-12(3-4)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254

SB74753-08 *MB-11(4-5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254

SB74753-10 *MB-10(2-3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74753-12 *MB-9(3-4)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74753-20 *MB-3(2-3)-1*

SW846 8082A

Samples:

SB74753-20 *MB-3(2-3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74753-32 *MB-7(4-5)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254

SB74753-34 *MB-8(3-4)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254

SW846 8270D

Spikes:

1319408-MSD1 *Source: SB74753-12*

The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

Benzo (k) fluoranthene

Samples:

S309713-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Benzo (g,h,i) perylene (35.1%)

This affected the following samples:

1319408-MS1
1319408-MSD1
MB-9(3-4)-1

S309793-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Pyrene (21.7%)

This affected the following samples:

1319560-BLK1

SW846 8270D

Samples:

SB74753-24	*MB-1(2-3)-1*

The Reporting Limit has been raised to account for matrix interference.

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	Greenwich HS - Greenwich, CT / 60225155
Work Order:	SB74753
Sample(s) received on:	8/9/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-14(.5-1)-1 SB74753-01	60225155	Soil	09-Aug-13 08:20	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.6	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.8		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	**291**		µg/kg dry	20.8	12.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**27.1**		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.59	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.26**		mg/kg dry	1.39	0.606	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**29.3**		mg/kg dry	1.39	0.513	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.3**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319359	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-14(1-2)-1 SB74753-02	60225155	Soil	09-Aug-13 08:22	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.1		µg/kg dry	21.1	15.7	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 21.1		µg/kg dry	21.1	19.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.1		µg/kg dry	21.1	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.1		µg/kg dry	21.1	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.1		µg/kg dry	21.1	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.1		µg/kg dry	21.1	17.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.1		µg/kg dry	21.1	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.1		µg/kg dry	21.1	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.1		µg/kg dry	21.1	8.69	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.55**		mg/kg dry	1.61	0.702	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**24.7**		mg/kg dry	1.61	0.594	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.7**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319359	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-13(0-0.5)-1 SB74753-03	60225155	Soil	09-Aug-13 08:25	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.5		µg/kg dry	21.5	16.1	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 21.5		µg/kg dry	21.5	19.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.5		µg/kg dry	21.5	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.5		µg/kg dry	21.5	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.5		µg/kg dry	21.5	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**83.9**		µg/kg dry	21.5	17.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**38.7**		µg/kg dry	21.5	10.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.5		µg/kg dry	21.5	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.5		µg/kg dry	21.5	8.87	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.66**		mg/kg dry	1.43	0.621	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**11.6**		mg/kg dry	1.43	0.525	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.0**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319359	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-13(2-3)-1	60225155	Soil	09-Aug-13 08:27	09-Aug-13
SB74753-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 186		µg/kg dry	186	47.2	1	SW846 8270D	13-Aug-13	15-Aug-13	JG	1319408	X
208-96-8	Acenaphthylene	< 186		µg/kg dry	186	51.4	1	"	"	"	"	"	X
120-12-7	Anthracene	< 186		µg/kg dry	186	47.3	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 186		µg/kg dry	186	49.7	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 186		µg/kg dry	186	50.5	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 186		µg/kg dry	186	40.3	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 186		µg/kg dry	186	51.6	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 186		µg/kg dry	186	65.7	1	"	"	"	"	"	X
218-01-9	Chrysene	< 186		µg/kg dry	186	52.4	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 186		µg/kg dry	186	47.9	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 186		µg/kg dry	186	51.9	1	"	"	"	"	"	X
86-73-7	Fluorene	< 186		µg/kg dry	186	51.6	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 186		µg/kg dry	186	51.5	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 186		µg/kg dry	186	54.8	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 186		µg/kg dry	186	53.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 186		µg/kg dry	186	51.8	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 186		µg/kg dry	186	49.5	1	"	"	"	"	"	X
129-00-0	Pyrene	< 186		µg/kg dry	186	44.9	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*89*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*108*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	16.2	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.6		µg/kg dry	21.6	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.6		µg/kg dry	21.6	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.6		µg/kg dry	21.6	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.93	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.0		mg/kg dry	29.0	1.5	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319406	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-13(2-3)-1 SB74753-04	60225155	Soil	09-Aug-13 08:27	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 29.0		mg/kg dry	29.0	2.9	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319406	
68476-31-3	Fuel Oil #4	< 29.0		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.0		mg/kg dry	29.0	7.3	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.0		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.0		mg/kg dry	29.0	7.3	1	"	"	"	"	"	
	Unidentified	< 29.0		mg/kg dry	29.0	7.3	1	"	"	"	"	"	
	Other Oil	< 29.0		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 29.0		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 29.0		mg/kg dry	29.0	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*78*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.15**		mg/kg dry	1.61	0.702	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**10.9**		mg/kg dry	1.61	0.593	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.4**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-12(0.5-1)-1 SB74753-05	60225155	Soil	09-Aug-13 08:30	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.4		µg/kg dry	21.4	16.0	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 21.4		µg/kg dry	21.4	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.4		µg/kg dry	21.4	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.4		µg/kg dry	21.4	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.4		µg/kg dry	21.4	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	**148**		µg/kg dry	21.4	12.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**41.8**		µg/kg dry	21.4	10.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.84	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.02**		mg/kg dry	1.57	0.684	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**99.6**		mg/kg dry	1.57	0.579	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.3**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-12(3-4)-1 SB74753-06	60225155	Soil	09-Aug-13 08:32	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 220	R01	µg/kg dry	220	164	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 220	R01	µg/kg dry	220	198	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 220	R01	µg/kg dry	220	141	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 220	R01	µg/kg dry	220	132	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 220	R01	µg/kg dry	220	114	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 220	R01	µg/kg dry	220	183	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.0		µg/kg dry	22.0	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.07	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**6.80**		mg/kg dry	1.69	0.736	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**37.8**		mg/kg dry	1.69	0.623	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**88.4**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-11(0-0.5)-1 SB74753-07	60225155	Soil	09-Aug-13 08:33	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.4		µg/kg dry	21.4	16.0	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 21.4		µg/kg dry	21.4	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.4		µg/kg dry	21.4	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.4		µg/kg dry	21.4	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.4		µg/kg dry	21.4	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	**96.2**		µg/kg dry	21.4	12.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**52.4**		µg/kg dry	21.4	10.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.82	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.10**		mg/kg dry	1.59	0.693	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**19.5**		mg/kg dry	1.59	0.586	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.9**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-11(4-5)-1 SB74753-08	60225155	Soil	09-Aug-13 08:35	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 211	R01	µg/kg dry	211	158	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319176	X
11104-28-2	Aroclor-1221	< 211	R01	µg/kg dry	211	190	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 211	R01	µg/kg dry	211	136	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 211	R01	µg/kg dry	211	127	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 211	R01	µg/kg dry	211	110	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 211	R01	µg/kg dry	211	176	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.1		µg/kg dry	21.1	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.1		µg/kg dry	21.1	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.1		µg/kg dry	21.1	8.71	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*135*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.85**		mg/kg dry	1.42	0.619	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**12.9**		mg/kg dry	1.42	0.524	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.6**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-10(0.5-1)-1 SB74753-09	60225155	Soil	09-Aug-13 08:40	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.4		µg/kg dry	21.4	16.0	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 21.4		µg/kg dry	21.4	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.4		µg/kg dry	21.4	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.4		µg/kg dry	21.4	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.4		µg/kg dry	21.4	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**117**		µg/kg dry	21.4	17.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**102**		µg/kg dry	21.4	10.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.84	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.78**		mg/kg dry	1.52	0.661	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**44.3**		mg/kg dry	1.52	0.559	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.8**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-10(2-3)-1 SB74753-10	60225155	Soil	09-Aug-13 08:42	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 220	R01	µg/kg dry	220	164	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 220	R01	µg/kg dry	220	198	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 220	R01	µg/kg dry	220	141	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 220	R01	µg/kg dry	220	132	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 220	R01	µg/kg dry	220	114	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.0		µg/kg dry	22.0	18.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.0		µg/kg dry	22.0	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.07	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.98**		mg/kg dry	1.40	0.611	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**12.0**		mg/kg dry	1.40	0.516	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.8**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-9(0.5-1)-1 SB74753-11	60225155	Soil	09-Aug-13 08:50	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	15.7	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	18.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.0		µg/kg dry	21.0	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**108**		µg/kg dry	21.0	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**53.5**		µg/kg dry	21.0	10.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.66	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*145*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.33**		mg/kg dry	1.53	0.669	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**28.2**		mg/kg dry	1.53	0.566	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.5**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-9(3-4)-1 SB74753-12	60225155	Soil	09-Aug-13 08:52	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 186		µg/kg dry	186	47.1	1	SW846 8270D	13-Aug-13	15-Aug-13	MSL	1319408	X
208-96-8	Acenaphthylene	< 186		µg/kg dry	186	51.4	1	"	"	"	"	"	X
120-12-7	Anthracene	< 186		µg/kg dry	186	47.3	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 186		µg/kg dry	186	49.7	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 186		µg/kg dry	186	50.5	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 186		µg/kg dry	186	40.3	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 186		µg/kg dry	186	51.6	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 186		µg/kg dry	186	65.7	1	"	"	"	"	"	X
218-01-9	Chrysene	< 186		µg/kg dry	186	52.3	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 186		µg/kg dry	186	47.9	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 186		µg/kg dry	186	51.8	1	"	"	"	"	"	X
86-73-7	Fluorene	< 186		µg/kg dry	186	51.6	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 186		µg/kg dry	186	51.4	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 186		µg/kg dry	186	54.7	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 186		µg/kg dry	186	53.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 186		µg/kg dry	186	51.8	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 186		µg/kg dry	186	49.5	1	"	"	"	"	"	X
129-00-0	Pyrene	< 186		µg/kg dry	186	44.8	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*82*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*75*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 214	R01	µg/kg dry	214	160	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 214	R01	µg/kg dry	214	193	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 214	R01	µg/kg dry	214	137	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 214	R01	µg/kg dry	214	129	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 214	R01	µg/kg dry	214	111	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.4		µg/kg dry	21.4	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.4		µg/kg dry	21.4	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.83	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.5		mg/kg dry	29.5	1.5	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319406	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-9(3-4)-1 SB74753-12	60225155	Soil	09-Aug-13 08:52	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 29.5		mg/kg dry	29.5	2.9	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319406	
68476-31-3	Fuel Oil #4	< 29.5		mg/kg dry	29.5	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.5		mg/kg dry	29.5	7.4	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.5		mg/kg dry	29.5	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.5		mg/kg dry	29.5	7.4	1	"	"	"	"	"	
	Unidentified	< 29.5		mg/kg dry	29.5	7.4	1	"	"	"	"	"	
	Other Oil	< 29.5		mg/kg dry	29.5	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 29.5		mg/kg dry	29.5	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 29.5		mg/kg dry	29.5	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*88*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.18**		mg/kg dry	1.44	0.629	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**22.4**		mg/kg dry	1.44	0.532	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.1**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-35(0-0.5)-1 SB74753-13	60225155	Soil	09-Aug-13 09:05	09-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.1		µg/kg dry	20.1	15.0	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 20.1		µg/kg dry	20.1	18.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.1		µg/kg dry	20.1	12.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.1		µg/kg dry	20.1	12.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.1		µg/kg dry	20.1	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.1		µg/kg dry	20.1	16.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.1		µg/kg dry	20.1	12.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.1		µg/kg dry	20.1	18.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.1		µg/kg dry	20.1	8.30	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.39**		mg/kg dry	1.37	0.596	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**12.3**		mg/kg dry	1.37	0.504	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.6**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-35(1-2)-1 SB74753-14	60225155	Soil	09-Aug-13 09:07	09-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.1		µg/kg dry	20.1	15.0	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 20.1		µg/kg dry	20.1	18.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.1		µg/kg dry	20.1	12.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.1		µg/kg dry	20.1	12.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.1		µg/kg dry	20.1	10.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**45.2**		µg/kg dry	20.1	16.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.1		µg/kg dry	20.1	12.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.1		µg/kg dry	20.1	18.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.1		µg/kg dry	20.1	8.28	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.46**		mg/kg dry	1.56	0.680	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**16.0**		mg/kg dry	1.56	0.575	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.3**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-35(4-5)-1 SB74753-15	60225155	Soil	09-Aug-13 09:09	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.7		µg/kg dry	22.7	17.0	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 22.7		µg/kg dry	22.7	20.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.7		µg/kg dry	22.7	14.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.7		µg/kg dry	22.7	13.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**4,970**		µg/kg dry	22.7	9.97	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.7		µg/kg dry	22.7	18.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**141**		µg/kg dry	22.7	11.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.7		µg/kg dry	22.7	21.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.7		µg/kg dry	22.7	9.37	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.67**		mg/kg dry	1.61	0.704	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**134**		mg/kg dry	1.61	0.595	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**87.1**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-24(0.5-1)-1	60225155	Soil	09-Aug-13 09:12	09-Aug-13
SB74753-16				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.4		µg/kg dry	21.4	16.0	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 21.4		µg/kg dry	21.4	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.4		µg/kg dry	21.4	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.4		µg/kg dry	21.4	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.4		µg/kg dry	21.4	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.4		µg/kg dry	21.4	17.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.4		µg/kg dry	21.4	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.84	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**10.7**	R01, D	mg/kg dry	6.96	3.03	5	SW846 6010C	14-Aug-13	16-Aug-13	Ir	1319447	X
7439-92-1	Lead	**2,230**	GS1, D	mg/kg dry	6.96	2.57	5	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.8**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-24(1-2)-1 SB74753-17	60225155	Soil	09-Aug-13 09:14	09-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	15.7	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	18.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.0		µg/kg dry	21.0	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.0		µg/kg dry	21.0	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.0		µg/kg dry	21.0	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.67	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 1.58		mg/kg dry	1.58	0.687	1	SW846 6010C	14-Aug-13	15-Aug-13	TBC	1319447	X
7439-92-1	Lead	**8.04**		mg/kg dry	1.58	0.581	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.4**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-24(3-4)-1 SB74753-18	60225155	Soil	09-Aug-13 09:16	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.2		µg/kg dry	22.2	16.6	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 22.2		µg/kg dry	22.2	20.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.2		µg/kg dry	22.2	14.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.2		µg/kg dry	22.2	13.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.2		µg/kg dry	22.2	11.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.2		µg/kg dry	22.2	18.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.2		µg/kg dry	22.2	13.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.2		µg/kg dry	22.2	20.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.2		µg/kg dry	22.2	9.17	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**28.5**		mg/kg dry	1.50	0.653	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**90.4**		mg/kg dry	1.50	0.552	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**84.4**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-3(0.5-1)-1 SB74753-19	60225155	Soil	09-Aug-13 09:25	09-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.7		µg/kg dry	19.7	14.7	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 19.7		µg/kg dry	19.7	17.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.7		µg/kg dry	19.7	12.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.7		µg/kg dry	19.7	11.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.7		µg/kg dry	19.7	10.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.7		µg/kg dry	19.7	16.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.7		µg/kg dry	19.7	12.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.7		µg/kg dry	19.7	18.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.7		µg/kg dry	19.7	8.11	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.56**		mg/kg dry	1.49	0.648	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**12.3**		mg/kg dry	1.49	0.548	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.4**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-3(2-3)-1 SB74753-20	60225155	Soil	09-Aug-13 09:27	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 202	R01	µg/kg dry	202	151	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 202	R01	µg/kg dry	202	182	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 202	R01	µg/kg dry	202	130	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 202	R01	µg/kg dry	202	121	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 202	R01	µg/kg dry	202	105	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.2		µg/kg dry	20.2	16.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.2		µg/kg dry	20.2	12.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.2		µg/kg dry	20.2	18.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.2		µg/kg dry	20.2	8.33	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.02**		mg/kg dry	1.45	0.634	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**20.5**		mg/kg dry	1.45	0.536	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.2**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-2(0-0.5)-1 SB74753-21	60225155	Soil	09-Aug-13 09:40	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.9		µg/kg dry	20.9	15.6	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 20.9		µg/kg dry	20.9	18.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.9		µg/kg dry	20.9	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.9		µg/kg dry	20.9	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.9		µg/kg dry	20.9	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.9		µg/kg dry	20.9	17.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.9		µg/kg dry	20.9	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.9		µg/kg dry	20.9	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.9		µg/kg dry	20.9	8.62	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.93**		mg/kg dry	1.46	0.635	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**20.2**		mg/kg dry	1.46	0.537	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**95.2**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-2(1-2)-1 SB74753-22	60225155	Soil	09-Aug-13 09:42	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.5		µg/kg dry	21.5	16.0	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 21.5		µg/kg dry	21.5	19.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.5		µg/kg dry	21.5	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.5		µg/kg dry	21.5	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.5		µg/kg dry	21.5	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.5		µg/kg dry	21.5	17.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.5		µg/kg dry	21.5	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.5		µg/kg dry	21.5	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.5		µg/kg dry	21.5	8.86	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.76**		mg/kg dry	1.50	0.653	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**117**		mg/kg dry	1.50	0.552	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.0**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-1(0-0.5)-1 SB74753-23	60225155	Soil	09-Aug-13 09:45	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.6		µg/kg dry	19.6	14.6	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 19.6		µg/kg dry	19.6	17.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.6		µg/kg dry	19.6	12.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.6		µg/kg dry	19.6	11.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.6		µg/kg dry	19.6	10.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.6		µg/kg dry	19.6	16.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.6		µg/kg dry	19.6	12.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.6		µg/kg dry	19.6	18.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.6		µg/kg dry	19.6	8.07	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**4.28**		mg/kg dry	1.56	0.679	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**43.9**		mg/kg dry	1.56	0.574	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.5**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319180	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-1(2-3)-1 SB74753-24	60225155	Soil	09-Aug-13 09:47	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			R01										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 360	D	µg/kg dry	360	91.5	2	SW846 8270D	15-Aug-13	15-Aug-13	JG	1319560	X
208-96-8	Acenaphthylene	< 360	D	µg/kg dry	360	99.7	2	"	"	"	"	"	X
120-12-7	Anthracene	< 360	D	µg/kg dry	360	91.7	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**964**	D	µg/kg dry	360	96.3	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**959**	D	µg/kg dry	360	98.0	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**885**	D	µg/kg dry	360	78.2	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**420**	D	µg/kg dry	360	100	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**921**	D	µg/kg dry	360	127	2	"	"	"	"	"	X
218-01-9	Chrysene	**981**	D	µg/kg dry	360	102	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 360	D	µg/kg dry	360	92.9	2	"	"	"	"	"	X
206-44-0	Fluoranthene	**2,060**	D	µg/kg dry	360	101	2	"	"	"	"	"	X
86-73-7	Fluorene	< 360	D	µg/kg dry	360	100	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**498**	D	µg/kg dry	360	99.8	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 360	D	µg/kg dry	360	106	2	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 360	D	µg/kg dry	360	103	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 360	D	µg/kg dry	360	100	2	"	"	"	"	"	X
85-01-8	Phenanthrene	**973**	D	µg/kg dry	360	96.0	2	"	"	"	"	"	X
129-00-0	Pyrene	**1,710**	D	µg/kg dry	360	87.0	2	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*84*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*91*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	15.9	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.3		µg/kg dry	21.3	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.79	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.0		mg/kg dry	28.0	1.4	1	CT ETPH	13-Aug-13	16-Aug-13	SEP	1319406	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-1(2-3)-1 SB74753-24	60225155	Soil	09-Aug-13 09:47	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 28.0		mg/kg dry	28.0	2.8	1	CT ETPH	13-Aug-13	16-Aug-13	SEP	1319406	
68476-31-3	Fuel Oil #4	< 28.0		mg/kg dry	28.0	2.8	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.0		mg/kg dry	28.0	7.0	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.0		mg/kg dry	28.0	2.8	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.0		mg/kg dry	28.0	7.0	1	"	"	"	"	"	
	Unidentified	**53.3**		mg/kg dry	28.0	7.0	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	28.0	2.8	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**53.3**		mg/kg dry	28.0	2.8	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**53.3**		mg/kg dry	28.0	2.6	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*82*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**3.17**		mg/kg dry	1.59	0.693	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**88.2**		mg/kg dry	1.59	0.586	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.3**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-4(0.5-1)-1 SB74753-25	60225155	Soil	09-Aug-13 10:15	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.2		µg/kg dry	21.2	15.8	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 21.2		µg/kg dry	21.2	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.2		µg/kg dry	21.2	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.2		µg/kg dry	21.2	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.2		µg/kg dry	21.2	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.2		µg/kg dry	21.2	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.73	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.20**		mg/kg dry	1.56	0.679	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**28.9**		mg/kg dry	1.56	0.574	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.0**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-4(3-4)-1 SB74753-26	60225155	Soil	09-Aug-13 10:17	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 24.6		µg/kg dry	24.6	18.4	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 24.6		µg/kg dry	24.6	22.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 24.6		µg/kg dry	24.6	15.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 24.6		µg/kg dry	24.6	14.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 24.6		µg/kg dry	24.6	12.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 24.6		µg/kg dry	24.6	20.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 24.6		µg/kg dry	24.6	15.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 24.6		µg/kg dry	24.6	22.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 24.6		µg/kg dry	24.6	10.1	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**5.23**		mg/kg dry	1.62	0.708	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**47.4**		mg/kg dry	1.62	0.599	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**79.1**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-5(0.5-1)-1 SB74753-27	60225155	Soil	09-Aug-13 10:24	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.7		µg/kg dry	21.7	16.2	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 21.7		µg/kg dry	21.7	19.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.7		µg/kg dry	21.7	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.7		µg/kg dry	21.7	13.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.7		µg/kg dry	21.7	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	**566**		µg/kg dry	21.7	12.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**128**		µg/kg dry	21.7	10.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.7		µg/kg dry	21.7	20.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.7		µg/kg dry	21.7	8.96	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.50**		mg/kg dry	1.47	0.642	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**20.5**		mg/kg dry	1.47	0.543	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.6**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-5(3-4)-1 SB74753-28	60225155	Soil	09-Aug-13 10:29	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 209		µg/kg dry	209	53.0	1	SW846 8270D	15-Aug-13	15-Aug-13	JG	1319560	X
208-96-8	Acenaphthylene	< 209		µg/kg dry	209	57.8	1	"	"	"	"	"	X
120-12-7	Anthracene	< 209		µg/kg dry	209	53.2	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 209		µg/kg dry	209	55.9	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 209		µg/kg dry	209	56.8	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 209		µg/kg dry	209	45.3	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 209		µg/kg dry	209	58.1	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 209		µg/kg dry	209	73.9	1	"	"	"	"	"	X
218-01-9	Chrysene	< 209		µg/kg dry	209	58.9	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 209		µg/kg dry	209	53.9	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 209		µg/kg dry	209	58.3	1	"	"	"	"	"	X
86-73-7	Fluorene	< 209		µg/kg dry	209	58.0	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 209		µg/kg dry	209	57.9	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 209		µg/kg dry	209	61.6	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 209		µg/kg dry	209	59.6	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 209		µg/kg dry	209	58.3	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 209		µg/kg dry	209	55.7	1	"	"	"	"	"	X
129-00-0	Pyrene	< 209		µg/kg dry	209	50.4	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*57*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*58*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 24.4		µg/kg dry	24.4	18.2	1	SW846 8082A	13-Aug-13	15-Aug-13	IMR	1319379	X
11104-28-2	Aroclor-1221	< 24.4		µg/kg dry	24.4	22.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 24.4		µg/kg dry	24.4	15.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 24.4		µg/kg dry	24.4	14.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 24.4		µg/kg dry	24.4	12.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 24.4		µg/kg dry	24.4	20.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 24.4		µg/kg dry	24.4	15.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 24.4		µg/kg dry	24.4	22.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 24.4		µg/kg dry	24.4	10.1	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 33.3		mg/kg dry	33.3	1.7	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319406	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-5(3-4)-1 SB74753-28	60225155	Soil	09-Aug-13 10:29	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 33.3		mg/kg dry	33.3	3.3	1	CT ETPH	13-Aug-13	15-Aug-13	SEP	1319406	
68476-31-3	Fuel Oil #4	< 33.3		mg/kg dry	33.3	3.3	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 33.3		mg/kg dry	33.3	8.3	1	"	"	"	"	"	
M09800000	Motor Oil	< 33.3		mg/kg dry	33.3	3.3	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 33.3		mg/kg dry	33.3	8.3	1	"	"	"	"	"	
	Unidentified	< 33.3		mg/kg dry	33.3	8.3	1	"	"	"	"	"	
	Other Oil	< 33.3		mg/kg dry	33.3	3.3	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 33.3		mg/kg dry	33.3	3.3	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 33.3		mg/kg dry	33.3	3.1	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*88*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**69.2**		mg/kg dry	1.82	0.795	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**104**		mg/kg dry	1.82	0.673	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**79.1**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-6(0-0.5)-1 SB74753-29	60225155	Soil	09-Aug-13 10:33	09-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.8		µg/kg dry	19.8	14.8	1	SW846 8082A	13-Aug-13	16-Aug-13	IMR	1319380	X
11104-28-2	Aroclor-1221	< 19.8		µg/kg dry	19.8	17.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.8		µg/kg dry	19.8	12.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.8		µg/kg dry	19.8	11.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.8		µg/kg dry	19.8	10.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**66.2**		µg/kg dry	19.8	16.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**51.4**		µg/kg dry	19.8	9.89	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.8		µg/kg dry	19.8	18.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.8		µg/kg dry	19.8	8.15	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**10.9**		mg/kg dry	1.50	0.654	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**15.9**		mg/kg dry	1.50	0.553	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**96.6**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-6(4-5)-1 SB74753-30	60225155	Soil	09-Aug-13 10:35	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.7		µg/kg dry	20.7	15.5	1	SW846 8082A	13-Aug-13	16-Aug-13	IMR	1319380	X
11104-28-2	Aroclor-1221	< 20.7		µg/kg dry	20.7	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.7		µg/kg dry	20.7	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.7		µg/kg dry	20.7	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.7		µg/kg dry	20.7	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.7		µg/kg dry	20.7	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.7		µg/kg dry	20.7	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.7		µg/kg dry	20.7	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.7		µg/kg dry	20.7	8.55	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**2.18**		mg/kg dry	1.57	0.683	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**12.9**		mg/kg dry	1.57	0.578	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.0**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-7(0-0.5)-1 SB74753-31	60225155	Soil	09-Aug-13 10:40	09-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.4		µg/kg dry	19.4	14.5	1	SW846 8082A	13-Aug-13	16-Aug-13	IMR	1319380	X
11104-28-2	Aroclor-1221	< 19.4		µg/kg dry	19.4	17.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.4		µg/kg dry	19.4	12.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.4		µg/kg dry	19.4	11.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 19.4		µg/kg dry	19.4	10.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.4		µg/kg dry	19.4	16.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.4		µg/kg dry	19.4	12.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.4		µg/kg dry	19.4	18.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.4		µg/kg dry	19.4	7.99	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**1.98**		mg/kg dry	1.38	0.603	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**5.71**		mg/kg dry	1.38	0.510	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**96.0**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-7(4-5)-1 SB74753-32	60225155	Soil	09-Aug-13 10:42	09-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 209	R01	µg/kg dry	209	156	1	SW846 8082A	13-Aug-13	16-Aug-13	IMR	1319380	X
11104-28-2	Aroclor-1221	< 209	R01	µg/kg dry	209	188	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 209	R01	µg/kg dry	209	134	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 209	R01	µg/kg dry	209	126	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 209	R01	µg/kg dry	209	109	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 209	R01	µg/kg dry	209	174	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.9		µg/kg dry	20.9	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.9		µg/kg dry	20.9	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.9		µg/kg dry	20.9	8.62	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 1.49		mg/kg dry	1.49	0.650	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**4.91**		mg/kg dry	1.49	0.549	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.3**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-8(0.5-1)-1 SB74753-33	60225155	Soil	09-Aug-13 10:45	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	16.1	1	SW846 8082A	13-Aug-13	16-Aug-13	IMR	1319380	X
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	19.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.6		µg/kg dry	21.6	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**261**		µg/kg dry	21.6	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**50.6**		µg/kg dry	21.6	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.89	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**43.4**		mg/kg dry	1.49	0.651	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**28.4**		mg/kg dry	1.49	0.551	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**89.7**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MB-8(3-4)-1 SB74753-34	60225155	Soil	09-Aug-13 10:47	09-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 231	R01	µg/kg dry	231	173	1	SW846 8082A	13-Aug-13	16-Aug-13	IMR	1319380	X
11104-28-2	Aroclor-1221	< 231	R01	µg/kg dry	231	208	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 231	R01	µg/kg dry	231	148	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 231	R01	µg/kg dry	231	139	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 231	R01	µg/kg dry	231	120	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 231	R01	µg/kg dry	231	193	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.1		µg/kg dry	23.1	14.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.1		µg/kg dry	23.1	21.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.1		µg/kg dry	23.1	9.53	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**9.84**		mg/kg dry	1.73	0.753	1	SW846 6010C	14-Aug-13	15-Aug-13	EDT	1319448	X
7439-92-1	Lead	**81.4**		mg/kg dry	1.73	0.637	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**83.1**		%			1	SM2540 G Mod.	12-Aug-13	12-Aug-13	DT	1319181	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319408 - SW846 3545A										
Blank (1319408-BLK1)						Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Acenaphthene	< 167		µg/kg wet	167						
Acenaphthylene	< 167		µg/kg wet	167						
Anthracene	< 167		µg/kg wet	167						
Benzo (a) anthracene	< 167		µg/kg wet	167						
Benzo (a) pyrene	< 167		µg/kg wet	167						
Benzo (b) fluoranthene	< 167		µg/kg wet	167						
Benzo (g,h,i) perylene	< 167		µg/kg wet	167						
Benzo (k) fluoranthene	< 167		µg/kg wet	167						
Chrysene	< 167		µg/kg wet	167						
Dibenzo (a,h) anthracene	< 167		µg/kg wet	167						
Fluoranthene	< 167		µg/kg wet	167						
Fluorene	< 167		µg/kg wet	167						
Indeno (1,2,3-cd) pyrene	< 167		µg/kg wet	167						
1-Methylnaphthalene	< 167		µg/kg wet	167						
2-Methylnaphthalene	< 167		µg/kg wet	167						
Naphthalene	< 167		µg/kg wet	167						
Phenanthrene	< 167		µg/kg wet	167						
Pyrene	< 167		µg/kg wet	167						
Surrogate: 2-Fluorobiphenyl	*1640*		µg/kg wet		*1670*		*98*	*30-130*		
Surrogate: Terphenyl-dl4	*1860*		µg/kg wet		*1670*		*112*	*30-130*		
LCS (1319408-BS1)						Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Acenaphthene	**1900**		µg/kg wet	167	1670		114	40-140		
Acenaphthylene	**1910**		µg/kg wet	167	1670		115	40-140		
Anthracene	**1710**		µg/kg wet	167	1670		102	40-140		
Benzo (a) anthracene	**1770**		µg/kg wet	167	1670		106	40-140		
Benzo (a) pyrene	**1880**		µg/kg wet	167	1670		113	40-140		
Benzo (b) fluoranthene	**1780**		µg/kg wet	167	1670		107	40-140		
Benzo (g,h,i) perylene	**1790**		µg/kg wet	167	1670		107	40-140		
Benzo (k) fluoranthene	**1910**		µg/kg wet	167	1670		115	40-140		
Chrysene	**1810**		µg/kg wet	167	1670		109	40-140		
Dibenzo (a,h) anthracene	**1980**		µg/kg wet	167	1670		119	40-140		
Fluoranthene	**1760**		µg/kg wet	167	1670		106	40-140		
Fluorene	**1910**		µg/kg wet	167	1670		114	40-140		
Indeno (1,2,3-cd) pyrene	**1970**		µg/kg wet	167	1670		118	40-140		
1-Methylnaphthalene	**1550**		µg/kg wet	167	1670		93	40-140		
2-Methylnaphthalene	**1990**		µg/kg wet	167	1670		119	40-140		
Naphthalene	**1700**		µg/kg wet	167	1670		102	40-140		
Phenanthrene	**1640**		µg/kg wet	167	1670		99	40-140		
Pyrene	**1840**		µg/kg wet	167	1670		110	40-140		
Surrogate: 2-Fluorobiphenyl	*1540*		µg/kg wet		*1670*		*93*	*30-130*		
Surrogate: Terphenyl-dl4	*1720*		µg/kg wet		*1670*		*103*	*30-130*		
Duplicate (1319408-DUP1)			**Source: SB74753-04**			Prepared: 13-Aug-13 Analyzed: 15-Aug-13				
Acenaphthene	< 185		µg/kg dry	185		BRL				30
Acenaphthylene	< 185		µg/kg dry	185		BRL				30
Anthracene	< 185		µg/kg dry	185		BRL				30
Benzo (a) anthracene	< 185		µg/kg dry	185		BRL				30
Benzo (a) pyrene	< 185		µg/kg dry	185		BRL				30
Benzo (b) fluoranthene	< 185		µg/kg dry	185		BRL				30
Benzo (g,h,i) perylene	< 185		µg/kg dry	185		BRL				30
Benzo (k) fluoranthene	< 185		µg/kg dry	185		BRL				30
Chrysene	< 185		µg/kg dry	185		BRL				30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319408 - SW846 3545A										
Duplicate (1319408-DUP1)			**Source: SB74753-04**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Dibenzo (a,h) anthracene	< 185		µg/kg dry	185		BRL				30
Fluoranthene	**69.5**	J	µg/kg dry	185		BRL				30
Fluorene	< 185		µg/kg dry	185		BRL				30
Indeno (1,2,3-cd) pyrene	< 185		µg/kg dry	185		BRL				30
1-Methylnaphthalene	< 185		µg/kg dry	185		BRL				30
2-Methylnaphthalene	< 185		µg/kg dry	185		BRL				30
Naphthalene	< 185		µg/kg dry	185		BRL				30
Phenanthrene	< 185		µg/kg dry	185		BRL				30
Pyrene	**55.0**	J	µg/kg dry	185		BRL				30
Surrogate: 2-Fluorobiphenyl	*1480*		µg/kg dry		*1850*		*80*	*30-130*		
Surrogate: Terphenyl-dl4	*1770*		µg/kg dry		*1850*		*96*	*30-130*		
Matrix Spike (1319408-MS1)			**Source: SB74753-12**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Acenaphthene	**1570**		µg/kg dry	187	1860	BRL	84	40-140		
Acenaphthylene	**1630**		µg/kg dry	187	1860	BRL	88	40-140		
Anthracene	**1660**		µg/kg dry	187	1860	BRL	89	40-140		
Benzo (a) anthracene	**1590**		µg/kg dry	187	1860	BRL	85	40-140		
Benzo (a) pyrene	**1600**		µg/kg dry	187	1860	BRL	86	40-140		
Benzo (b) fluoranthene	**1780**		µg/kg dry	187	1860	BRL	95	40-140		
Benzo (g,h,i) perylene	**1200**		µg/kg dry	187	1860	BRL	64	40-140		
Benzo (k) fluoranthene	**1940**		µg/kg dry	187	1860	BRL	104	40-140		
Chrysene	**1540**		µg/kg dry	187	1860	BRL	82	40-140		
Dibenzo (a,h) anthracene	**1340**		µg/kg dry	187	1860	BRL	72	40-140		
Fluoranthene	**1680**		µg/kg dry	187	1860	83.7	86	40-140		
Fluorene	**1590**		µg/kg dry	187	1860	BRL	85	40-140		
Indeno (1,2,3-cd) pyrene	**1350**		µg/kg dry	187	1860	BRL	72	40-140		
1-Methylnaphthalene	**1480**		µg/kg dry	187	1860	BRL	79	40-140		
2-Methylnaphthalene	**1620**		µg/kg dry	187	1860	BRL	87	40-140		
Naphthalene	**1550**		µg/kg dry	187	1860	BRL	83	40-140		
Phenanthrene	**1630**		µg/kg dry	187	1860	58.5	84	40-140		
Pyrene	**1790**		µg/kg dry	187	1860	70.8	92	40-140		
Surrogate: 2-Fluorobiphenyl	*1400*		µg/kg dry		*1860*		*75*	*30-130*		
Surrogate: Terphenyl-dl4	*1550*		µg/kg dry		*1860*		*83*	*30-130*		
Matrix Spike Dup (1319408-MSD1)			**Source: SB74753-12**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Acenaphthene	**1340**		µg/kg dry	186	1860	BRL	72	40-140	16	30
Acenaphthylene	**1380**		µg/kg dry	186	1860	BRL	74	40-140	16	30
Anthracene	**1430**		µg/kg dry	186	1860	BRL	77	40-140	15	30
Benzo (a) anthracene	**1320**		µg/kg dry	186	1860	BRL	71	40-140	18	30
Benzo (a) pyrene	**1330**		µg/kg dry	186	1860	BRL	71	40-140	18	30
Benzo (b) fluoranthene	**1350**		µg/kg dry	186	1860	BRL	73	40-140	27	30
Benzo (g,h,i) perylene	**1390**		µg/kg dry	186	1860	BRL	75	40-140	15	30
Benzo (k) fluoranthene	**1300**	QR2	µg/kg dry	186	1860	BRL	70	40-140	39	30
Chrysene	**1300**		µg/kg dry	186	1860	BRL	70	40-140	17	30
Dibenzo (a,h) anthracene	**1590**		µg/kg dry	186	1860	BRL	86	40-140	17	30
Fluoranthene	**1330**		µg/kg dry	186	1860	83.7	67	40-140	24	30
Fluorene	**1340**		µg/kg dry	186	1860	BRL	72	40-140	16	30
Indeno (1,2,3-cd) pyrene	**1570**		µg/kg dry	186	1860	BRL	84	40-140	15	30
1-Methylnaphthalene	**1220**		µg/kg dry	186	1860	BRL	65	40-140	19	30
2-Methylnaphthalene	**1400**		µg/kg dry	186	1860	BRL	76	40-140	14	30
Naphthalene	**1360**		µg/kg dry	186	1860	BRL	73	40-140	13	30
Phenanthrene	**1380**		µg/kg dry	186	1860	58.5	71	40-140	17	30
Pyrene	**1430**		µg/kg dry	186	1860	70.8	73	40-140	23	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319408 - SW846 3545A										
Matrix Spike Dup (1319408-MSD1)			**Source: SB74753-12**			Prepared: 13-Aug-13 Analyzed: 15-Aug-13				
Surrogate: 2-Fluorobiphenyl	*1320*		µg/kg dry		*1860*		*71*	*30-130*		
Surrogate: Terphenyl-dl4	*1340*		µg/kg dry		*1860*		*72*	*30-130*		
Batch 1319560 - SW846 3545A										
Blank (1319560-BLK1)						Prepared: 15-Aug-13 Analyzed: 16-Aug-13				
Acenaphthene	< 167		µg/kg wet	167						
Acenaphthylene	< 167		µg/kg wet	167						
Anthracene	< 167		µg/kg wet	167						
Benzo (a) anthracene	< 167		µg/kg wet	167						
Benzo (a) pyrene	< 167		µg/kg wet	167						
Benzo (b) fluoranthene	< 167		µg/kg wet	167						
Benzo (g,h,i) perylene	< 167		µg/kg wet	167						
Benzo (k) fluoranthene	< 167		µg/kg wet	167						
Chrysene	< 167		µg/kg wet	167						
Dibenzo (a,h) anthracene	< 167		µg/kg wet	167						
Fluoranthene	< 167		µg/kg wet	167						
Fluorene	< 167		µg/kg wet	167						
Indeno (1,2,3-cd) pyrene	< 167		µg/kg wet	167						
1-Methylnaphthalene	< 167		µg/kg wet	167						
2-Methylnaphthalene	< 167		µg/kg wet	167						
Naphthalene	< 167		µg/kg wet	167						
Phenanthrene	< 167		µg/kg wet	167						
Pyrene	< 167		µg/kg wet	167						
Surrogate: 2-Fluorobiphenyl	*1830*		µg/kg wet		*1670*		*110*	*30-130*		
Surrogate: Terphenyl-dl4	*1870*		µg/kg wet		*1670*		*112*	*30-130*		
LCS (1319560-BS1)						Prepared & Analyzed: 15-Aug-13				
Acenaphthene	**1700**		µg/kg wet	167	1670		102	40-140		
Acenaphthylene	**1810**		µg/kg wet	167	1670		109	40-140		
Anthracene	**1750**		µg/kg wet	167	1670		105	40-140		
Benzo (a) anthracene	**1720**		µg/kg wet	167	1670		103	40-140		
Benzo (a) pyrene	**1740**		µg/kg wet	167	1670		104	40-140		
Benzo (b) fluoranthene	**1630**		µg/kg wet	167	1670		98	40-140		
Benzo (g,h,i) perylene	**1460**		µg/kg wet	167	1670		88	40-140		
Benzo (k) fluoranthene	**1680**		µg/kg wet	167	1670		101	40-140		
Chrysene	**1690**		µg/kg wet	167	1670		101	40-140		
Dibenzo (a,h) anthracene	**1530**		µg/kg wet	167	1670		92	40-140		
Fluoranthene	**1720**		µg/kg wet	167	1670		103	40-140		
Fluorene	**1730**		µg/kg wet	167	1670		104	40-140		
Indeno (1,2,3-cd) pyrene	**1580**		µg/kg wet	167	1670		95	40-140		
1-Methylnaphthalene	**1550**		µg/kg wet	167	1670		93	40-140		
2-Methylnaphthalene	**1770**		µg/kg wet	167	1670		106	40-140		
Naphthalene	**1690**		µg/kg wet	167	1670		101	40-140		
Phenanthrene	**1690**		µg/kg wet	167	1670		102	40-140		
Pyrene	**1830**		µg/kg wet	167	1670		110	40-140		
Surrogate: 2-Fluorobiphenyl	*1550*		µg/kg wet		*1670*		*93*	*30-130*		
Surrogate: Terphenyl-dl4	*1700*		µg/kg wet		*1670*		*102*	*30-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319176 - SW846 3540C										
Blank (1319176-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*12.0*		µg/kg wet		*20.0*		*60*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
LCS (1319176-BS1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**253**		µg/kg wet	20.0	250		101	40-140		
Aroclor-1016 [2C]	**234**		µg/kg wet	20.0	250		94	40-140		
Aroclor-1260	**171**		µg/kg wet	20.0	250		68	40-140		
Aroclor-1260 [2C]	**185**		µg/kg wet	20.0	250		74	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
LCS Dup (1319176-BSD1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**234**		µg/kg wet	20.0	250		94	40-140	8	30
Aroclor-1016 [2C]	**231**		µg/kg wet	20.0	250		92	40-140	1	30
Aroclor-1260	**176**		µg/kg wet	20.0	250		70	40-140	3	30
Aroclor-1260 [2C]	**183**		µg/kg wet	20.0	250		73	40-140	1	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
Batch 1319379 - SW846 3540C										
Blank (1319379-BLK1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319379 - SW846 3540C										
Blank (1319379-BLK1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
LCS (1319379-BS1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**241**		µg/kg wet	20.0	250		96	40-140		
Aroclor-1016 [2C]	**253**		µg/kg wet	20.0	250		101	40-140		
Aroclor-1260	**209**		µg/kg wet	20.0	250		84	40-140		
Aroclor-1260 [2C]	**202**		µg/kg wet	20.0	250		81	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
LCS Dup (1319379-BSD1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**240**		µg/kg wet	20.0	250		96	40-140	0.4	30
Aroclor-1016 [2C]	**221**		µg/kg wet	20.0	250		88	40-140	14	30
Aroclor-1260	**221**		µg/kg wet	20.0	250		88	40-140	6	30
Aroclor-1260 [2C]	**199**		µg/kg wet	20.0	250		80	40-140	1	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Duplicate (1319379-DUP1)			**Source: SB74753-23**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1016 [2C]	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1221	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1221 [2C]	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1232	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1232 [2C]	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1242	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1242 [2C]	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1248	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1248 [2C]	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1254	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1254 [2C]	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1260	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1260 [2C]	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1262	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1262 [2C]	< 21.1		µg/kg dry	21.1		BRL				30
Aroclor-1268	< 21.1		µg/kg dry	21.1		BRL				30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319379 - SW846 3540C										
Duplicate (1319379-DUP1)			**Source: SB74753-23**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1268 [2C]	< 21.1		µg/kg dry	21.1		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.1*		µg/kg dry		*21.1*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*23.2*		µg/kg dry		*21.1*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.1*		µg/kg dry		*21.1*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg dry		*21.1*		*90*	*30-150*		
Matrix Spike (1319379-MS1)			**Source: SB74753-23**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**273**		µg/kg dry	21.1	264	BRL	103	40-140		
Aroclor-1016 [2C]	**281**		µg/kg dry	21.1	264	BRL	106	40-140		
Aroclor-1260	**255**		µg/kg dry	21.1	264	BRL	96	40-140		
Aroclor-1260 [2C]	**272**		µg/kg dry	21.1	264	BRL	103	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*24.3*		µg/kg dry		*21.1*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*24.3*		µg/kg dry		*21.1*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.2*		µg/kg dry		*21.1*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*22.2*		µg/kg dry		*21.1*		*105*	*30-150*		
Matrix Spike Dup (1319379-MSD1)			**Source: SB74753-23**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**243**		µg/kg dry	21.0	263	BRL	92	40-140	11	30
Aroclor-1016 [2C]	**242**		µg/kg dry	21.0	263	BRL	92	40-140	15	30
Aroclor-1260	**225**		µg/kg dry	21.0	263	BRL	86	40-140	12	30
Aroclor-1260 [2C]	**228**		µg/kg dry	21.0	263	BRL	87	40-140	17	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.1*		µg/kg dry		*21.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.1*		µg/kg dry		*21.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.0*		µg/kg dry		*21.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.9*		µg/kg dry		*21.0*		*90*	*30-150*		
Batch 1319380 - SW846 3540C										
Blank (1319380-BLK1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*13.0*		µg/kg wet		*20.0*		*65*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
LCS (1319380-BS1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**234**		µg/kg wet	20.0	250		94	40-140		
Aroclor-1016 [2C]	**243**		µg/kg wet	20.0	250		97	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319380 - SW846 3540C										
LCS (1319380-BS1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1260	**187**		µg/kg wet	20.0	250		75	40-140		
Aroclor-1260 [2C]	**205**		µg/kg wet	20.0	250		82	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
LCS Dup (1319380-BSD1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**235**		µg/kg wet	20.0	250		94	40-140	0.4	30
Aroclor-1016 [2C]	**242**		µg/kg wet	20.0	250		97	40-140	0.4	30
Aroclor-1260	**190**		µg/kg wet	20.0	250		76	40-140	2	30
Aroclor-1260 [2C]	**208**		µg/kg wet	20.0	250		83	40-140	1	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Duplicate (1319380-DUP1)			**Source: SB74753-33**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1016 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1221	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1221 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1232	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1232 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1242	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1242 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1248	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1248 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1254	**216**		µg/kg dry	21.6		261			19	30
Aroclor-1254 [2C]	**206**		µg/kg dry	21.6		231			11	30
Aroclor-1260	**50.8**		µg/kg dry	21.6		50.6			0.3	30
Aroclor-1260 [2C]	**50.8**		µg/kg dry	21.6		47.4			7	30
Aroclor-1262	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1262 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1268	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1268 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.7*		µg/kg dry		*21.6*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*15.1*		µg/kg dry		*21.6*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.1*		µg/kg dry		*21.6*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*14.1*		µg/kg dry		*21.6*		*65*	*30-150*		
Matrix Spike (1319380-MS1)			**Source: SB74753-33**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**306**		µg/kg dry	20.9	261	BRL	117	40-140		
Aroclor-1016 [2C]	**291**		µg/kg dry	20.9	261	BRL	112	40-140		
Aroclor-1260	**210**		µg/kg dry	20.9	261	50.6	61	40-140		
Aroclor-1260 [2C]	**215**		µg/kg dry	20.9	261	47.4	64	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.9*		µg/kg dry		*20.9*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*17.7*		µg/kg dry		*20.9*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.6*		µg/kg dry		*20.9*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*14.6*		µg/kg dry		*20.9*		*70*	*30-150*		
Matrix Spike Dup (1319380-MSD1)			**Source: SB74753-33**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**330**		µg/kg dry	21.4	268	BRL	123	40-140	5	30
Aroclor-1016 [2C]	**273**		µg/kg dry	21.4	268	BRL	102	40-140	9	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319380 - SW846 3540C										
Matrix Spike Dup (1319380-MSD1)			**Source: SB74753-33**			Prepared: 13-Aug-13 Analyzed: 15-Aug-13				
Aroclor-1254	**282**		µg/kg dry	21.4		261		40-140		30
Aroclor-1254 [2C]	**266**		µg/kg dry	21.4		231		40-140		30
Aroclor-1260	**219**		µg/kg dry	21.4	268	50.6	63	40-140	3	30
Aroclor-1260 [2C]	**211**		µg/kg dry	21.4	268	47.4	61	40-140	5	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.6*		µg/kg dry		*21.4*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*18.2*		µg/kg dry		*21.4*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.2*		µg/kg dry		*21.4*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.1*		µg/kg dry		*21.4*		*75*	*30-150*		

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319406 - SW846 3550C										
Blank (1319406-BLK1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
Gasoline	< 26.6		mg/kg wet	26.6						
Fuel Oil #2	< 26.6		mg/kg wet	26.6						
Fuel Oil #4	< 26.6		mg/kg wet	26.6						
Fuel Oil #6	< 26.6		mg/kg wet	26.6						
Motor Oil	< 26.6		mg/kg wet	26.6						
Aviation Fuel	< 26.6		mg/kg wet	26.6						
Unidentified	< 26.6		mg/kg wet	26.6						
Other Oil	< 26.6		mg/kg wet	26.6						
Total Petroleum Hydrocarbons	< 26.6		mg/kg wet	26.6						
C9-C36 Aliphatic Hydrocarbons	< 26.6		mg/kg wet	26.6						
n-Nonadecane	< 0.005		mg/kg wet	0.005						
n-Nonane	< 0.005		mg/kg wet	0.005						
n-Decane	< 0.005		mg/kg wet	0.005						
n-Dodecane	< 0.005		mg/kg wet	0.005						
n-Tetradecane	< 0.005		mg/kg wet	0.005						
n-Hexadecane	< 0.005		mg/kg wet	0.005						
n-Octadecane	< 0.005		mg/kg wet	0.005						
n-Eicosane	< 0.005		mg/kg wet	0.005						
n-Docosane	< 0.005		mg/kg wet	0.005						
n-Tetracosane	< 0.005		mg/kg wet	0.005						
n-Hexacosane	< 0.005		mg/kg wet	0.005						
n-Octacosane	< 0.005		mg/kg wet	0.005						
n-Triacontane	< 0.005		mg/kg wet	0.005						
n-Hexatriacontane	< 0.005		mg/kg wet	0.005						
Surrogate: 1-Chlorooctadecane	*1.74*		mg/kg wet		*3.33*		*52*	*50-150*		
LCS (1319406-BS1)					Prepared: 13-Aug-13 Analyzed: 14-Aug-13					
C9-C36 Aliphatic Hydrocarbons	**59.2**		mg/kg wet	26.6	93.3		63	60-120		
Surrogate: 1-Chlorooctadecane	*1.97*		mg/kg wet		*3.33*		*59*	*50-150*		
Duplicate (1319406-DUP1)			**Source: SB74753-24**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Gasoline	< 28.3		mg/kg dry	28.3		BRL				50
Fuel Oil #2	< 28.3		mg/kg dry	28.3		BRL				50
Fuel Oil #4	< 28.3		mg/kg dry	28.3		BRL				50
Fuel Oil #6	< 28.3		mg/kg dry	28.3		BRL				50
Motor Oil	< 28.3		mg/kg dry	28.3		BRL				50
Aviation Fuel	< 28.3		mg/kg dry	28.3		BRL				50
Unidentified	**33.2**		mg/kg dry	28.3		53.3			46	50
Other Oil	**Calculated as**		mg/kg dry	28.3		Calculated as				50
Total Petroleum Hydrocarbons	**33.2**		mg/kg dry	28.3		53.3			46	50
C9-C36 Aliphatic Hydrocarbons	**33.2**		mg/kg dry	28.3		53.3			46	50
Surrogate: 1-Chlorooctadecane	*3.94*		mg/kg dry		*3.55*		*111*	*50-150*		
Matrix Spike (1319406-MS1)			**Source: SB74753-24**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
C9-C36 Aliphatic Hydrocarbons	**97.0**	QM7	mg/kg dry	28.2	98.9	53.3	44	50-150		
Surrogate: 1-Chlorooctadecane	*2.78*		mg/kg dry		*3.53*		*79*	*50-150*		
Matrix Spike Dup (1319406-MSD1)			**Source: SB74753-24**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
C9-C36 Aliphatic Hydrocarbons	**132**	QR5	mg/kg dry	28.3	99.3	53.3	79	50-150	57	30
Surrogate: 1-Chlorooctadecane	*3.27*		mg/kg dry		*3.55*		*92*	*50-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319447 - SW846 3050B										
Blank (1319447-BLK1)					Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Arsenic	< 1.30		mg/kg wet	1.30						
Lead	< 1.30		mg/kg wet	1.30						
Duplicate (1319447-DUP1)			**Source: SB74753-17**		Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Lead	**7.86**		mg/kg dry	1.59		8.04			2	20
Arsenic	**1.77**	QR8	mg/kg dry	1.59		1.33			28	20
Matrix Spike (1319447-MS1)			**Source: SB74753-17**		Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**92.5**		mg/kg dry	1.37	114	1.33	80	75-125		
Lead	**93.0**		mg/kg dry	1.37	114	8.04	75	75-125		
Matrix Spike Dup (1319447-MSD1)			**Source: SB74753-17**		Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**90.7**		mg/kg dry	1.35	112	1.33	79	75-125	2	20
Lead	**92.4**		mg/kg dry	1.35	112	8.04	75	75-125	0.6	20
Post Spike (1319447-PS1)			**Source: SB74753-17**		Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Lead	**113**		mg/kg dry	1.58	131	8.04	80	80-120		
Arsenic	**110**		mg/kg dry	1.58	131	1.33	83	80-120		
Reference (1319447-SRM1)					Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Lead	**63.5**		mg/kg wet	1.50	68.6		93	83.82-116.91		
Arsenic	**85.0**		mg/kg wet	1.50	91.9		92	82.97-117.58		
Reference (1319447-SRM2)					Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Lead	**62.0**		mg/kg wet	1.50	68.7		90	83.82-116.91		
Arsenic	**83.1**		mg/kg wet	1.50	91.9		90	82.97-117.58		
Batch 1319448 - SW846 3050B										
Blank (1319448-BLK1)					Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Lead	< 1.25		mg/kg wet	1.25						
Arsenic	< 1.25		mg/kg wet	1.25						
Duplicate (1319448-DUP1)			**Source: SB74753-19**		Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Lead	**11.6**		mg/kg dry	1.39		12.3			6	20
Arsenic	**4.60**		mg/kg dry	1.39		4.56			0.9	20
Matrix Spike (1319448-MS1)			**Source: SB74753-19**		Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Lead	**109**	QM8	mg/kg dry	1.59	132	12.3	73	75-125		
Arsenic	**106**		mg/kg dry	1.59	132	4.56	77	75-125		
Matrix Spike Dup (1319448-MSD1)			**Source: SB74753-19**		Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**111**		mg/kg dry	1.58	132	4.56	81	75-125	4	20
Lead	**114**		mg/kg dry	1.58	132	12.3	77	75-125	5	20
Post Spike (1319448-PS1)			**Source: SB74753-19**		Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Lead	**112**		mg/kg dry	1.49	124	12.3	80	80-120		
Arsenic	**108**		mg/kg dry	1.49	124	4.56	83	80-120		
Reference (1319448-SRM1)					Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Lead	**60.0**		mg/kg wet	1.50	68.7		87	83.82-116.91		
Arsenic	**82.8**		mg/kg wet	1.50	91.9		90	82.97-117.58		
Reference (1319448-SRM2)					Prepared: 14-Aug-13 Analyzed: 15-Aug-13					
Arsenic	**79.5**		mg/kg wet	1.50	91.9		87	82.97-117.58		
Lead	**59.1**		mg/kg wet	1.50	68.7		86	83.82-116.91		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319180 - General Preparation										
Duplicate (1319180-DUP1)			**Source: SB74753-04**			Prepared & Analyzed: 12-Aug-13				
% Solids	**89.2**		%			89.4			0.3	20
Batch 1319181 - General Preparation										
Duplicate (1319181-DUP1)			**Source: SB74753-24**			Prepared & Analyzed: 12-Aug-13				
% Solids	**93.2**		%			92.3			1	20

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S304818				
Initial Cal Check (S304818-ICV1)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.270728E+08	-2.8	30
n-Nonadecane	3.561546E+08	3.675153E+08	3.2	30
n-Nonane	3.732875E+08	3.681448E+08	-1.4	30
n-Decane	3.651436E+08	3.651315E+08	-0.003	30
n-Dodecane	3.48398E+08	3.592906E+08	3.1	30
n-Tetradecane	3.588449E+08	3.665299E+08	2.1	30
n-Hexadecane	3.756608E+08	3.74015E+08	-0.4	30
n-Octadecane	3.775606E+08	3.791863E+08	0.4	30
n-Eicosane	3.825055E+08	3.811256E+08	-0.4	30
n-Docosane	3.815533E+08	3.84155E+08	0.7	30
n-Tetracosane	3.82641E+08	3.839073E+08	0.3	30
n-Hexacosane	3.864596E+08	3.855051E+08	-0.2	30
n-Octacosane	3.839113E+08	3.752925E+08	-2.2	30
n-Triacontane	3.841358E+08	3.849129E+08	0.2	30
n-Hexatriacontane	3.752619E+08	3.758944E+08	0.2	30

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309685				
Calibration Check (S309685-CCV2)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.075142E+08	-8.4	30
n-Nonadecane	3.561546E+08	3.466918E+08	-2.7	30
n-Nonane	3.732875E+08	3.495138E+08	-6.4	30
n-Decane	3.651436E+08	3.504604E+08	-4.0	30
n-Dodecane	3.48398E+08	3.469559E+08	-0.4	30
n-Tetradecane	3.588449E+08	3.471714E+08	-3.3	30
n-Hexadecane	3.756608E+08	3.48455E+08	-7.2	30
n-Octadecane	3.775606E+08	3.49641E+08	-7.4	30
n-Eicosane	3.825055E+08	3.49437E+08	-8.6	30
n-Docosane	3.815533E+08	3.456723E+08	-9.4	30
n-Tetracosane	3.82641E+08	3.436526E+08	-10.2	30
n-Hexacosane	3.864596E+08	3.44161E+08	-10.9	30
n-Octacosane	3.839113E+08	3.400478E+08	-11.4	30
n-Triacontane	3.841358E+08	3.396189E+08	-11.6	30
n-Hexatriacontane	3.752619E+08	3.351177E+08	-10.7	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309685				
Calibration Check (S309685-CCV4)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.575214E+08	5.9	30
n-Nonadecane	3.561546E+08	3.433E+08	-3.6	30
n-Nonane	3.732875E+08	3.428918E+08	-8.1	30
n-Decane	3.651436E+08	3.443258E+08	-5.7	30
n-Dodecane	3.48398E+08	3.405914E+08	-2.2	30
n-Tetradecane	3.588449E+08	3.428566E+08	-4.5	30
n-Hexadecane	3.756608E+08	3.456312E+08	-8.0	30
n-Octadecane	3.775606E+08	3.463822E+08	-8.3	30
n-Eicosane	3.825055E+08	3.457196E+08	-9.6	30
n-Docosane	3.815533E+08	3.438138E+08	-9.9	30
n-Tetracosane	3.82641E+08	3.417747E+08	-10.7	30
n-Hexacosane	3.864596E+08	3.427532E+08	-11.3	30
n-Octacosane	3.839113E+08	3.382936E+08	-11.9	30
n-Triacontane	3.841358E+08	3.392198E+08	-11.7	30
n-Hexatriacontane	3.752619E+08	3.36684E+08	-10.3	30

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309779				
Calibration Check (S309779-CCV2)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	3.820734E+08	-15.6	30
n-Nonadecane	3.561546E+08	3.15197E+08	-11.5	30
n-Nonane	3.732875E+08	3.134779E+08	-16.0	30
n-Decane	3.651436E+08	3.148152E+08	-13.8	30
n-Dodecane	3.48398E+08	3.122192E+08	-10.4	30
n-Tetradecane	3.588449E+08	3.1435E+08	-12.4	30
n-Hexadecane	3.756608E+08	3.164253E+08	-15.8	30
n-Octadecane	3.775606E+08	3.178924E+08	-15.8	30
n-Eicosane	3.825055E+08	3.175303E+08	-17.0	30
n-Docosane	3.815533E+08	3.147603E+08	-17.5	30
n-Tetracosane	3.82641E+08	3.136506E+08	-18.0	30
n-Hexacosane	3.864596E+08	3.151899E+08	-18.4	30
n-Octacosane	3.839113E+08	3.128169E+08	-18.5	30
n-Triacontane	3.841358E+08	3.14028E+08	-18.3	30
n-Hexatriacontane	3.752619E+08	3.108408E+08	-17.2	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309779				
Calibration Check (S309779-CCV4)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.121591E+08	-7.1	30
n-Nonadecane	3.561546E+08	3.305964E+08	-7.2	30
n-Nonane	3.732875E+08	3.247446E+08	-13.0	30
n-Decane	3.651436E+08	3.273237E+08	-10.4	30
n-Dodecane	3.48398E+08	3.252978E+08	-6.6	30
n-Tetradecane	3.588449E+08	3.289273E+08	-8.3	30
n-Hexadecane	3.756608E+08	3.3226E+08	-11.6	30
n-Octadecane	3.775606E+08	3.33297E+08	-11.7	30
n-Eicosane	3.825055E+08	3.325118E+08	-13.1	30
n-Docosane	3.815533E+08	3.301674E+08	-13.5	30
n-Tetracosane	3.82641E+08	3.286824E+08	-14.1	30
n-Hexacosane	3.864596E+08	3.294982E+08	-14.7	30
n-Octacosane	3.839113E+08	3.25884E+08	-15.1	30
n-Triacontane	3.841358E+08	3.261669E+08	-15.1	30
n-Hexatriacontane	3.752619E+08	3.257682E+08	-13.2	30

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM8	The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR5	RPD out of acceptance range.
QR8	Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
R01	The Reporting Limit has been raised to account for matrix interference.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin and waste automobile oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as Calculated as.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk
Nicole Leja

SB74753UK

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 4

Special Handling: 5
- ☒ Standard TAT - ~~7 to 10~~ business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr.
Rocky Hill CT

Telephone #: 800 263 5800
Project Mgr. Malcolm Bieler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Greenwich High School
Location: Greenwich State: CT
Sampler(s): M. Rood & J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCB - Soil Wipe	Arsenic, Lead	ETPH	VPHs					
74753-01	MB-14(0.5-1)-1	8/9/13	8:20	G	SO		1			X	X							
02	MB-14(1-2)-1	8/9/13	8:22	G	SO		1			X	X							
03	MB-13(0-0.5)-1	8/9/13	8:25	G	SO		1			X	X							
04	MB-13(2-3)-1	8/9/13	8:27	G	SO		1			X	X	X	X					
05	MB-12(0.5-1)-1	8/9/13	8:30	G	SO		1			X	X							
06	MB-12(3-4)-1	8/9/13	8:32	G	SO		1			X	X							
07	MB-11(0-0.5)-1	8/9/13	8:33	G	SO		1			X	X							
08	MB-11(4-5)-1	8/9/13	8:35	G	SO		1			X	X							
09	MB-10(0.5-1)-1	8/9/13	8:40	G	SO		1			X	X							
10	MB-10(2-3)-1	8/9/13	8:42	G	SO		1			X	X							

Relinquished by:	Received by:	Date:	Time:	Temp°C
		8/9/13	4:00	
		8/9/13		

☒ EDD Format Equis
☒ E-mail to Malcolm.bieler@aecom.com
Coleen.scott@aecom.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____
State-specific reporting standards:

MA DEP MCP CAM Report: Yes ☐ No ☒
CT DPH RCP Report: Yes ☒ No ☐

SB74753 LR

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 4

Special Handling: 5
- [x] Standard TAT - ~~7 to 10~~ business days
- [ ] Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECom
500 Enterprise Dr.
Rocky Hill CT

Telephone #: 860 263 5806
Project Mgr. Malcolm Beder

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Cromwell High School
Location: Cromwell State: CT
Sampler(s): M. Reed + J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCB-soxhlet	Arsenic, Lead	TPHd	EPH					
74753-11	MB-9 (0.5-1)-1	8/9/13	8:30	G	SO		1			X	X	X						
12	MB-9 (3-4)-1	8/9/13	8:52	G	SO		1			X	X	X	X					
13	MB-35 (0-0.5)-1	8/9/13	9:03	G	SO		1			X	X							
14	MB-35 (1-2)-1	8/9/13	9:07	G	SO		1			X	X							
15	MB-35 (4-5)-1	8/9/13	9:09	G	SO		1			X	X							
16	MB-24 (0.5-1)-1	8/9/13	9:12	G	SO		1			X	X							
17	MB-24 (1-2)-1	8/9/13	9:14	G	SO		1			X	X							
18	MB-24 (3-4)-1	8/9/13	9:16	G	SO		1			X	X							
19	MB-3 (0.5-1)-1	8/9/13	9:23	G	SO		1			X	X							
20	MB-3 (2-3)-1	8/9/13	9:27	G	SO		1			X	X							

Relinquished by:	Received by:	Date:	Time:	Temp °C
		8/9/13	4:02	
		8/9/13	1940	

MA DEP MCP CAM Report: Yes ☐ No ☒
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

☒ EDD Format EQUIS
☒ E-mail to Malcolm.Beder@aecom.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

2.5 / 12.5 TR01

SB74753 OK

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 4

Special Handling: S
- ☑ Standard TAT - ~~7 to 10~~ business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr
Rocky Hill CT

Telephone #: 800 243 5800
Project Mgr. Malcolm Butler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Granby High School
Location: Granby State: CT
Sampler(s): M. Rodl + J. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: ACB - Soils	Arsenic, Lead	ETPH	PAHs					
74753-21	MB-2(0-0.5)-1	8/9/13	9:40	G	SO		1			X	Y							
22	MB-2(1-2)-1	8/9/13	9:42	G	SO		1			X	X							
23	MB-1(0-0.5)-1	8/9/13	9:45	G	SO		1			X	X							
24	MB-1(2-3)-1	8/9/13	9:47	G	SO		1			X	X	X	X					
25	MB-4(0.5-1)-1	8/9/13	10:15	G	SO		1			X	X							
26	MB-4(3-4)-1	8/9/13	10:17	G	SO		1			X	X							
27	MB-5(0.5-1)-1	8/9/13	10:24	G	SO		1			X	Y							
28	MB-5(3-4)-1	8/9/13	10:24	G	SO		2			X	X	X	Y					
29	MB-6(0-0.5)-1	8/9/13	10:33	G	SO		2			X	X							
30	MB-6(4-5)-1	8/9/13	10:33	G	SO		2			X	Y							

MA DEP MCP CAM Report: Yes ☐ No ☒
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp °C
		8/9/13	4:00	
		8/9/13	1940	

☒ EDD Format EQUIS
☒ E-mail to Malcolm.Butler@aecom.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

2 S/C 4 S IR 01

SB74753 OK

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 4 of 4

Special Handling: 5
- ☒ Standard TAT - ~~7 to 10~~ business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
500 Enterprise Dr
Rocky Hill CT

Telephone #: 860 263 5900
Project Mgr. Malcolm Bielen

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155
Site Name: Greenwich High School
Location: Greenwich State: CT
Sampler(s): M. Read & J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PLB Soxhlet	Arsenic, Lead	ETPH	PAHs
74753-31	MB-7(0-0.5)-1	8/9/13	10:40	G	SO		2			X	X		
32	MB-7(4-5)-1	8/9/13	10:42	G	SO		2			X	X		
33	MB-8(0.5-1)-1	8/9/13	10:45	G	SO		2			X	X		
34	MB-8(3-4)-1	8/9/13	10:41	G	SO		2			X	X		

MA DEP MCP CAM Report: Yes ☐ No ☒
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
	JH	8/9/13	4:00	
		8/9/13	1940	

☒ EDD Format EQUIS
☒ E-mail to malcolm.bielen@aecom.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

2.5 / 0 / 2.5 IR

Report Date:
14-Aug-13 15:26

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: GHS- MISA - Greenwich, CT
Project #: 60225155

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74821-01	AOC-2B-AA00(6)-1	Soil	12-Aug-13 13:40	12-Aug-13 18:15
SB74821-02	AOC-2B-AAN01(6)-1	Soil	12-Aug-13 13:42	12-Aug-13 18:15
SB74821-03	AOC-2B-AAS01(6)-1	Soil	12-Aug-13 13:44	12-Aug-13 18:15
SB74821-04	AOC-2B-EB00(6)-1	Soil	12-Aug-13 13:46	12-Aug-13 18:15
SB74821-05	AOC-2B-EC00(6)-1	Soil	12-Aug-13 13:50	12-Aug-13 18:15
SB74821-06	AOC-2B-ECS01(3)-1	Soil	12-Aug-13 13:52	12-Aug-13 18:15
SB74821-07	AOC-2B-WB00(6)-1	Soil	12-Aug-13 13:54	12-Aug-13 18:15
SB74821-08	AOC-2B-WBN01(6)-1	Soil	12-Aug-13 13:56	12-Aug-13 18:15
SB74821-09	AOC-2B-WC00(7)-1	Soil	12-Aug-13 13:58	12-Aug-13 18:15
SB74821-10	AOC-2B-WCN01(4)-1	Soil	12-Aug-13 14:00	12-Aug-13 18:15
SB74821-11	AOC-2B-EBS01(5.5)-1	Soil	12-Aug-13 13:48	12-Aug-13 18:15

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 20 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: GHS- MISA - Greenwich, CT

Project Number: 60225155

Sampling Date(s):
8/12/2013

Laboratory Sample ID(s):
SB74821-01 through SB74821-11

RCP Methods Used:
SW846 8082A

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/14/2013

CASE NARRATIVE:

The samples were received 1.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Spikes:

1319276-MS1 *Source: SB74821-02*

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016
Aroclor-1016 [2C]

1319276-MSD1 *Source: SB74821-02*

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016
Aroclor-1016 [2C]

Duplicates:

1319276-DUP1 *Source: SB74821-02*

RPD out of acceptance range.

Aroclor-1248

Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.

Aroclor-1260
Aroclor-1260 [2C]

Samples:

SW846 8082A

Samples:

SB74821-03 *AOC-2B-AAS01(6)-1*

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

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	GHS- MISA - Greenwich, CT / 60225155
Work Order:	SB74821
Sample(s) received on:	8/12/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2B-AA00(6)-1 SB74821-01	60225155	Soil	12-Aug-13 13:40	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	15.9	1	SW846 8082A	12-Aug-13	13-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**2,940**		µg/kg dry	21.3	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**100**		µg/kg dry	21.3	10.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.80	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.9**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2B-AAN01(6)-1 SB74821-02	60225155	Soil	12-Aug-13 13:42	12-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	15.7	1	SW846 8082A	12-Aug-13	13-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	18.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,450**		µg/kg dry	21.0	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.0		µg/kg dry	21.0	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**49.4**		µg/kg dry	21.0	10.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.66	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.7**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2B-AAS01(6)-1 SB74821-03	60225155	Soil	12-Aug-13 13:44	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.1		µg/kg dry	21.1	15.8	1	SW846 8082A	12-Aug-13	13-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 21.1		µg/kg dry	21.1	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.1		µg/kg dry	21.1	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.1		µg/kg dry	21.1	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**3,430**		µg/kg dry	21.1	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.1		µg/kg dry	21.1	17.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**89.9**		µg/kg dry	21.1	10.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.1		µg/kg dry	21.1	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.1		µg/kg dry	21.1	8.72	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*15500*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**93.0**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2B-EB00(6)-1 SB74821-04	60225155	Soil	12-Aug-13 13:46	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.0		µg/kg dry	22.0	16.4	1	SW846 8082A	12-Aug-13	13-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 22.0		µg/kg dry	22.0	19.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.0		µg/kg dry	22.0	14.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.0		µg/kg dry	22.0	13.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**63.7**		µg/kg dry	22.0	11.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.0		µg/kg dry	22.0	18.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.0		µg/kg dry	22.0	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.06	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.3**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2B-EC00(6)-1 SB74821-05	60225155	Soil	12-Aug-13 13:50	12-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.1		µg/kg dry	22.1	16.5	1	SW846 8082A	12-Aug-13	13-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 22.1		µg/kg dry	22.1	19.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.1		µg/kg dry	22.1	14.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.1		µg/kg dry	22.1	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**66.2**		µg/kg dry	22.1	11.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.1		µg/kg dry	22.1	18.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.1		µg/kg dry	22.1	13.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.1		µg/kg dry	22.1	20.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.1		µg/kg dry	22.1	9.11	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.6**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2B-ECS01(3)-1 SB74821-06	60225155	Soil	12-Aug-13 13:52	12-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.1		µg/kg dry	20.1	15.0	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 20.1		µg/kg dry	20.1	18.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.1		µg/kg dry	20.1	12.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.1		µg/kg dry	20.1	12.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**82.3**		µg/kg dry	20.1	10.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.1		µg/kg dry	20.1	16.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.1		µg/kg dry	20.1	12.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.1		µg/kg dry	20.1	18.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.1		µg/kg dry	20.1	8.28	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.7**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2B-WB00(6)-1 SB74821-07	60225155	Soil	12-Aug-13 13:54	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**822**		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**23.9**		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.58	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**95.1**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2B-WBN01(6)-1 SB74821-08	60225155	Soil	12-Aug-13 13:56	12-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.2		µg/kg dry	21.2	15.8	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 21.2		µg/kg dry	21.2	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.2		µg/kg dry	21.2	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.2		µg/kg dry	21.2	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**82.7**		µg/kg dry	21.2	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.2		µg/kg dry	21.2	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.75	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**93.7**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2B-WC00(7)-1 SB74821-09	60225155	Soil	12-Aug-13 13:58	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	15.7	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	18.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**671**		µg/kg dry	21.0	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.0		µg/kg dry	21.0	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**21.0**		µg/kg dry	21.0	10.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.66	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**93.4**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2B-WCN01(4)-1 SB74821-10	60225155	Soil	12-Aug-13 14:00	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.7		µg/kg dry	21.7	16.2	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 21.7		µg/kg dry	21.7	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.7		µg/kg dry	21.7	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.7		µg/kg dry	21.7	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,120**		µg/kg dry	21.7	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.7		µg/kg dry	21.7	18.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**49.9**		µg/kg dry	21.7	10.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.7		µg/kg dry	21.7	20.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.7		µg/kg dry	21.7	8.95	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.4**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2B-EBS01(5.5)-1 SB74821-11	60225155	Soil	12-Aug-13 13:48	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.7		µg/kg dry	20.7	15.4	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 20.7		µg/kg dry	20.7	18.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.7		µg/kg dry	20.7	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.7		µg/kg dry	20.7	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**78.5**		µg/kg dry	20.7	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.7		µg/kg dry	20.7	17.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.7		µg/kg dry	20.7	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.7		µg/kg dry	20.7	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.7		µg/kg dry	20.7	8.52	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.0**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319276 - SW846 3540C										
Blank (1319276-BLK1)					Prepared: 12-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
LCS (1319276-BS1)					Prepared: 12-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	**227**		µg/kg wet	20.0	250		91	40-140		
Aroclor-1016 [2C]	**234**		µg/kg wet	20.0	250		94	40-140		
Aroclor-1260	**166**		µg/kg wet	20.0	250		66	40-140		
Aroclor-1260 [2C]	**188**		µg/kg wet	20.0	250		75	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
LCS Dup (1319276-BSD1)					Prepared: 12-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	**230**		µg/kg wet	20.0	250		92	40-140	1	30
Aroclor-1016 [2C]	**233**		µg/kg wet	20.0	250		93	40-140	0.4	30
Aroclor-1260	**178**		µg/kg wet	20.0	250		71	40-140	7	30
Aroclor-1260 [2C]	**194**		µg/kg wet	20.0	250		78	40-140	3	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Duplicate (1319276-DUP1)			**Source: SB74821-02**		Prepared: 12-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	< 20.9		µg/kg dry	20.9		BRL				30
Aroclor-1016 [2C]	< 20.9		µg/kg dry	20.9		BRL				30
Aroclor-1221	< 20.9		µg/kg dry	20.9		BRL				30
Aroclor-1221 [2C]	< 20.9		µg/kg dry	20.9		BRL				30
Aroclor-1232	< 20.9		µg/kg dry	20.9		BRL				30
Aroclor-1232 [2C]	< 20.9		µg/kg dry	20.9		BRL				30
Aroclor-1242	< 20.9		µg/kg dry	20.9		BRL				30
Aroclor-1242 [2C]	< 20.9		µg/kg dry	20.9		BRL				30
Aroclor-1248	**1060**	QR5	µg/kg dry	20.9		1450			31	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319276 - SW846 3540C										
Duplicate (1319276-DUP1)			**Source: SB74821-02**		Prepared: 12-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1248 [2C]	**993**		µg/kg dry	20.9		1280			25	30
Aroclor-1254	< 20.9		µg/kg dry	20.9		BRL				30
Aroclor-1254 [2C]	< 20.9		µg/kg dry	20.9		BRL				30
Aroclor-1260	**23.0**	QM4	µg/kg dry	20.9		34.7			40	30
Aroclor-1260 [2C]	**35.5**	QM4	µg/kg dry	20.9		49.4			33	30
Aroclor-1262	< 20.9		µg/kg dry	20.9		BRL				30
Aroclor-1262 [2C]	< 20.9		µg/kg dry	20.9		BRL				30
Aroclor-1268	< 20.9		µg/kg dry	20.9		BRL				30
Aroclor-1268 [2C]	< 20.9		µg/kg dry	20.9		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.9*		µg/kg dry		*20.9*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*15.7*		µg/kg dry		*20.9*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*14.6*		µg/kg dry		*20.9*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.9*		µg/kg dry		*20.9*		*100*	*30-150*		
Matrix Spike (1319276-MS1)			**Source: SB74821-02**		Prepared: 12-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	**893**	QM1	µg/kg dry	21.1	264	BRL	338	40-140		
Aroclor-1016 [2C]	**1040**	QM1	µg/kg dry	21.1	264	BRL	394	40-140		
Aroclor-1260	**190**		µg/kg dry	21.1	264	34.7	59	40-140		
Aroclor-1260 [2C]	**250**		µg/kg dry	21.1	264	49.4	76	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.1*		µg/kg dry		*21.1*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*16.9*		µg/kg dry		*21.1*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*14.8*		µg/kg dry		*21.1*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.9*		µg/kg dry		*21.1*		*85*	*30-150*		
Matrix Spike Dup (1319276-MSD1)			**Source: SB74821-02**		Prepared: 12-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	**756**	QM1	µg/kg dry	21.2	265	BRL	286	40-140	17	30
Aroclor-1016 [2C]	**575**	QM1	µg/kg dry	21.2	265	BRL	217	40-140	58	30
Aroclor-1260	**198**		µg/kg dry	21.2	265	34.7	62	40-140	5	30
Aroclor-1260 [2C]	**214**		µg/kg dry	21.2	265	49.4	62	40-140	20	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.2*		µg/kg dry		*21.2*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*18.0*		µg/kg dry		*21.2*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.9*		µg/kg dry		*21.2*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.9*		µg/kg dry		*21.2*		*80*	*30-150*		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319331 - General Preparation										
Duplicate (1319331-DUP1)			**Source: SB74821-01**			Prepared & Analyzed: 13-Aug-13				
% Solids	**91.9**		%			91.9			0.05	20

Notes and Definitions

QM1	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
QM4	Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.
QR5	RPD out of acceptance range.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk

SB74821 RH

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC2B

Turnaround Time: RUSH 48hr

Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-2B	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED											ADDITIONAL INFORMATION
						PRESERV.	Store cool at 4°C										
						ANALYSIS	PCBs-Soxhelt Extraction 8082/3540										
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers												
AOC-2B · AA00(6)-1	Soil	~~8/6/2013~~ 8·12·13	1340	G=Grab	1		X										SB74821-01
AOC-2B - AAN01(6)-1	Soil	~~8/6/2013~~ 8·12·13	1342	G=Grab	1		X										-02
AOC-2B AA501(6)-1	Soil	~~8/6/2013~~ 8·12·13	1349	G=Grab	1		X										-03
AOC-2B EB00(6)-1	Soil	~~8/6/2013~~ 8·12·13	1346	G=Grab	1		X										-04
~~AOC-2B EB501(6)-1~~	~~Soil~~	~~8/6/2013~~ 8·12·13	~~1348~~	~~G=Grab~~	~~1~~		~~X~~										
AOC-2B · EC00(6)-1	Soil	~~8/6/2013~~ 8·12·13	1350	G=Grab	1		X										-05
AOC-2B - EC501(3)-1	Soil	~~8/6/2013~~ 8·12·13	1352	G=Grab	1		X										-06
AOC-2B · WB00(6)-1	Soil	~~8/6/2013~~ 8·12·13	1354	G=Grab	1		X										-07
AOC-2B - WBN01(6)-1	Soil	~~8/6/2013~~ 8·12·13	1356	G=Grab	1		X										-08
AOC-2B WC00(7)-1	Soil	~~8/6/2013~~ 8·12·13	1358	G=Grab	1		X										-09

Additional Comments/Special Instructions	Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples	8·12·13	1532			8-12-13	3:31	Y / N	Y / N	Y / N	
					8/12/13	1815	Y / N	Y / N	Y / N	
							Y / N	Y / N	Y / N	
							Y / N	Y / N	Y / N	
							Temp in °C	Samples on ice?	Sample intact?	Trip Blank?

Sampler's Name	Julie Williams	Mobile #	631-786-6107
Sampler's Signature			

2.3/-1/13 IR 01

SB74821 RA

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC2B

Turnaround Time: RUSH 48hr

Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-2B	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive	City, State	Rocky Hill, CT
Project Manager	Malcolm Beeler/Michael Doherty	City, State	Agawam	Postal Code, Country	06067, USA
Address	500 Enterprise Drive Suite 1A	Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aeocm.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS | ANALYSIS REQUESTED | ADDITIONAL INFORMATION

Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV: Store cool at 4°C / ANALYSIS: PCBs-Soxhelt Extraction 8082/3540	ADDITIONAL INFORMATION
AOC-2B - WCN01(4)-1	Soil	~~8/6/2013~~ 8-12-13	1400	G=Grab	1	X	SB74821_10
AOC-2B - EB301(5.5)-1	Soil	~~8/6/2013~~ 8-13-13	1348	G=Grab	1	X	-11
~~AOC-2B~~	Soil	8/6/2013		G=Grab	1	X	
~~AOC-2B~~	Soil	8/6/2013		G=Grab	1	X	
~~AOC-2B~~	Soil	8/6/2013		G=Grab	1	X	
~~AOC-2B~~	Soil	8/6/2013		G=Grab	1	X	
~~AOC-2B~~	Soil	8/6/2013		G=Grab	1	X	
~~AOC-2B~~	Soil	8/6/2013		G=Grab	1	X	
~~AOC-2B~~	Soil	8/6/2013		G=Grab	1	X	

Additional Comments/Special Instructions	Date	Time	Accepted By/Affiliation	Date	Time
48 Hour Rush on PCB samples	8-12-13	1530		8-12-13	1530

Sample Receipt Conditions

	Temp in °C	Samples on ice?	Sample intact?	Trip Blank?
	Y / N	Y / N	Y / N	
	Y / N	Y / N	Y / N	
	Y / N	Y / N	Y / N	
	Y / N	Y / N	Y / N	

Sampler's Name	Julie Williams	Mobile #	631-786-6107
Sampler's Signature			

2/-1/13 IR 01

Report Date:
14-Aug-13 15:41

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: GHS- MISA - Greenwich, CT
Project #: 60225155

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74822-01	AOC-2C-AA00(8)-1	Soil	12-Aug-13 14:40	12-Aug-13 18:15
SB74822-02	AOC-2C-AAN01(8)-1	Soil	12-Aug-13 14:42	12-Aug-13 18:15
SB74822-03	AOC-2C-AAN02(8)-1	Soil	12-Aug-13 14:44	12-Aug-13 18:15
SB74822-04	AOC-2C-AAN03(7)-1	Soil	12-Aug-13 14:46	12-Aug-13 18:15
SB74822-05	AOC-2C-AAS01(8)-1	Soil	12-Aug-13 14:48	12-Aug-13 18:15
SB74822-06	AOC-2C-AAS02(8)-1	Soil	12-Aug-13 14:50	12-Aug-13 18:15
SB74822-07	AOC-2C-AAS03(4)-1	Soil	12-Aug-13 14:52	12-Aug-13 18:15
SB74822-08	AOC-2C-EB00(8)-1	Soil	12-Aug-13 14:54	12-Aug-13 18:15
SB74822-09	AOC-2C-EBN01(8)-1	Soil	12-Aug-13 14:56	12-Aug-13 18:15
SB74822-10	AOC-2C-EBN02(8)-1	Soil	12-Aug-13 14:58	12-Aug-13 18:15
SB74822-11	AOC-2C-EBN03(4)-1	Soil	12-Aug-13 15:00	12-Aug-13 18:15
SB74822-12	AOC-2C-WB00(8)-1	Soil	12-Aug-13 15:02	12-Aug-13 18:15
SB74822-13	AOC-2C-WBN01(8)-1	Soil	12-Aug-13 15:04	12-Aug-13 18:15
SB74822-14	AOC-2C-WBN02(6)-1	Soil	12-Aug-13 15:06	12-Aug-13 18:15
SB74822-15	AOC-2C-WBN03(3)-1	Soil	12-Aug-13 15:08	12-Aug-13 18:15
SB74822-16	AOC-2C-WBS01(8)-1	Soil	12-Aug-13 15:10	12-Aug-13 18:15
SB74822-17	AOC-2C-WC00(3)-1	Soil	12-Aug-13 15:14	12-Aug-13 18:15
SB74822-18	AOC-2C-WCN01(3)-1	Soil	12-Aug-13 15:16	12-Aug-13 18:15
SB74822-19	AOC-2C-WCS01(4)-1	Soil	12-Aug-13 15:18	12-Aug-13 18:15

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 30 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: GHS- MISA - Greenwich, CT

Project Number: 60225155

Sampling Date(s):
8/12/2013

Laboratory Sample ID(s):
SB74822-01 through SB74822-19

RCP Methods Used:
SW846 8082A

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/14/2013

CASE NARRATIVE:

The samples were received 1.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Spikes:

1319277-MS1 *Source: SB74822-10*

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016
Aroclor-1016 [2C]

1319277-MSD1 *Source: SB74822-10*

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016
Aroclor-1016 [2C]

Samples:

SB74822-05 *AOC-2C-AAS01(8)-1*

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

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB74822-06 *AOC-2C-AAS02(8)-1*

SW846 8082A

Samples:

SB74822-06 *AOC-2C-AAS02(8)-1*

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

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB74822-08 *AOC-2C-EB00(8)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

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

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB74822-11 *AOC-2C-EBN03(4)-1*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

4,4-DB-Octafluorobiphenyl (Sr)

SB74822-12 *AOC-2C-WB00(8)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB74822-13 *AOC-2C-WBN01(8)-1*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

4,4-DB-Octafluorobiphenyl (Sr)

SB74822-15 *AOC-2C-WBN03(3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74822-17 *AOC-2C-WC00(3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74822-18 *AOC-2C-WCN01(3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	GHS- MISA - Greenwich, CT / 60225155
Work Order:	SB74822
Sample(s) received on:	8/12/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-AA00(8)-1 SB74822-01	60225155	Soil	12-Aug-13 14:40	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.4		µg/kg dry	21.4	16.0	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 21.4		µg/kg dry	21.4	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.4		µg/kg dry	21.4	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.4		µg/kg dry	21.4	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**65.2**		µg/kg dry	21.4	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.4		µg/kg dry	21.4	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.4		µg/kg dry	21.4	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.82	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.4**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-AAN01(8)-1 SB74822-02	60225155	Soil	12-Aug-13 14:42	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	15.7	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	18.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**282**		µg/kg dry	21.0	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.0		µg/kg dry	21.0	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.0		µg/kg dry	21.0	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.65	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.0**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-AAN02(8)-1 SB74822-03	60225155	Soil	12-Aug-13 14:44	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.5		µg/kg dry	21.5	16.0	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 21.5		µg/kg dry	21.5	19.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.5		µg/kg dry	21.5	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.5		µg/kg dry	21.5	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**660**		µg/kg dry	21.5	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.5		µg/kg dry	21.5	17.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.5		µg/kg dry	21.5	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.5		µg/kg dry	21.5	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.5		µg/kg dry	21.5	8.86	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.9**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-AAN03(7)-1 SB74822-04	60225155	Soil	12-Aug-13 14:46	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.4		µg/kg dry	22.4	16.7	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 22.4		µg/kg dry	22.4	20.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.4		µg/kg dry	22.4	14.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.4		µg/kg dry	22.4	13.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**2,830**		µg/kg dry	22.4	11.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.4		µg/kg dry	22.4	18.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**94.1**		µg/kg dry	22.4	11.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.4		µg/kg dry	22.4	20.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.4		µg/kg dry	22.4	9.24	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**87.7**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-AAS01(8)-1 SB74822-05	60225155	Soil	12-Aug-13 14:48	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	15.7	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	18.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**3,040**		µg/kg dry	21.0	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.0		µg/kg dry	21.0	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**68.2**		µg/kg dry	21.0	10.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.65	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*12700*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.1**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-AAS02(8)-1 SB74822-06	60225155	Soil	12-Aug-13 14:50	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.8		µg/kg dry	21.8	16.3	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 21.8		µg/kg dry	21.8	19.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.8		µg/kg dry	21.8	14.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.8		µg/kg dry	21.8	13.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,420**		µg/kg dry	21.8	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.8		µg/kg dry	21.8	18.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**29.4**		µg/kg dry	21.8	10.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.8		µg/kg dry	21.8	20.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.8		µg/kg dry	21.8	8.99	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*11000*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.5**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-AAS03(4)-1 SB74822-07	60225155	Soil	12-Aug-13 14:52	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.5		µg/kg dry	22.5	16.8	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 22.5		µg/kg dry	22.5	20.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.5		µg/kg dry	22.5	14.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.5		µg/kg dry	22.5	13.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,870**		µg/kg dry	22.5	11.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.5		µg/kg dry	22.5	18.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**70.7**		µg/kg dry	22.5	11.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.5		µg/kg dry	22.5	20.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.5		µg/kg dry	22.5	9.26	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**87.9**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-EB00(8)-1 SB74822-08	60225155	Soil	12-Aug-13 14:54	12-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			GS1										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 214	D	µg/kg dry	214	160	10	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 214	D	µg/kg dry	214	193	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 214	D	µg/kg dry	214	137	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 214	D	µg/kg dry	214	129	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**11,100**	D	µg/kg dry	214	111	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 214	D	µg/kg dry	214	178	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 214	D	µg/kg dry	214	132	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 214	D	µg/kg dry	214	199	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 214	D	µg/kg dry	214	88.1	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*23500*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.1**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-EBN01(8)-1 SB74822-09	60225155	Soil	12-Aug-13 14:56	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.3		µg/kg dry	20.3	15.1	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 20.3		µg/kg dry	20.3	18.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.3		µg/kg dry	20.3	13.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.3		µg/kg dry	20.3	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,040**		µg/kg dry	20.3	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.3		µg/kg dry	20.3	16.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**33.4**		µg/kg dry	20.3	12.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.3		µg/kg dry	20.3	18.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.3		µg/kg dry	20.3	8.36	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.4**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-EBN02(8)-1 SB74822-10	60225155	Soil	12-Aug-13 14:58	12-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	16.1	1	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	19.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**696**		µg/kg dry	21.6	9.47	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.6		µg/kg dry	21.6	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.6		µg/kg dry	21.6	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.90	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.3**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-EBN03(4)-1 SB74822-11	60225155	Soil	12-Aug-13 15:00	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.2		µg/kg dry	21.2	15.8	1	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 21.2		µg/kg dry	21.2	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.2		µg/kg dry	21.2	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.2		µg/kg dry	21.2	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**2,240**		µg/kg dry	21.2	9.30	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**129**		µg/kg dry	21.2	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.73	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*165*	SGC		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.2**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-WB00(8)-1 SB74822-12	60225155	Soil	12-Aug-13 15:02	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			GS1										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 215	D	µg/kg dry	215	160	10	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 215	D	µg/kg dry	215	194	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 215	D	µg/kg dry	215	138	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 215	D	µg/kg dry	215	129	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**8,560**	D	µg/kg dry	215	112	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 215	D	µg/kg dry	215	179	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 215	D	µg/kg dry	215	133	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 215	D	µg/kg dry	215	200	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 215	D	µg/kg dry	215	88.6	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*150*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.6**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-WBN01(8)-1 SB74822-13	60225155	Soil	12-Aug-13 15:04	12-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.2		µg/kg dry	21.2	15.9	1	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 21.2		µg/kg dry	21.2	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.2		µg/kg dry	21.2	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.2		µg/kg dry	21.2	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**4,070**		µg/kg dry	21.2	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**79.6**		µg/kg dry	21.2	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.76	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*155*	SGC		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.3**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-WBN02(6)-1 SB74822-14	60225155	Soil	12-Aug-13 15:06	12-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.1		µg/kg dry	22.1	16.5	1	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 22.1		µg/kg dry	22.1	19.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.1		µg/kg dry	22.1	14.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.1		µg/kg dry	22.1	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**4,750**		µg/kg dry	22.1	9.70	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.1		µg/kg dry	22.1	18.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**197**		µg/kg dry	22.1	13.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.1		µg/kg dry	22.1	20.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.1		µg/kg dry	22.1	9.11	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.1**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-WBN03(3)-1 SB74822-15	60225155	Soil	12-Aug-13 15:08	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 96.6	R01	µg/kg dry	96.6	72.1	1	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 96.6	R01	µg/kg dry	96.6	87.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 96.6	R01	µg/kg dry	96.6	62.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 96.6	R01	µg/kg dry	96.6	58.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 96.6	R01	µg/kg dry	96.6	50.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.3		µg/kg dry	19.3	16.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.3		µg/kg dry	19.3	12.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.3		µg/kg dry	19.3	18.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.3		µg/kg dry	19.3	7.97	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**95.6**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-WBS01(8)-1 SB74822-16	60225155	Soil	12-Aug-13 15:10	12-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	15.9	1	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**361**		µg/kg dry	21.3	9.36	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.79	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.8**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-WC00(3)-1 SB74822-17	60225155	Soil	12-Aug-13 15:14	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 103	R01	µg/kg dry	103	77.2	1	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 103	R01	µg/kg dry	103	93.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 103	R01	µg/kg dry	103	66.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 103	R01	µg/kg dry	103	62.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 103	R01	µg/kg dry	103	53.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.7		µg/kg dry	20.7	17.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.7		µg/kg dry	20.7	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.7		µg/kg dry	20.7	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.7		µg/kg dry	20.7	8.52	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.5**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-WCN01(3)-1 SB74822-18	60225155	Soil	12-Aug-13 15:16	12-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 103	R01	µg/kg dry	103	77.0	1	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 103	R01	µg/kg dry	103	92.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 103	R01	µg/kg dry	103	66.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 103	R01	µg/kg dry	103	62.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 103	R01	µg/kg dry	103	53.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.6		µg/kg dry	20.6	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.50	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.4**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-WCS01(4)-1 SB74822-19	60225155	Soil	12-Aug-13 15:18	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.5		µg/kg dry	22.5	16.8	1	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 22.5		µg/kg dry	22.5	20.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.5		µg/kg dry	22.5	14.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.5		µg/kg dry	22.5	13.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**4,440**		µg/kg dry	22.5	9.87	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.5		µg/kg dry	22.5	18.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**156**		µg/kg dry	22.5	13.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.5		µg/kg dry	22.5	20.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.5		µg/kg dry	22.5	9.27	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**86.2**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319276 - SW846 3540C										
Blank (1319276-BLK1)					Prepared: 12-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
LCS (1319276-BS1)					Prepared: 12-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	**227**		µg/kg wet	20.0	250		91	40-140		
Aroclor-1016 [2C]	**234**		µg/kg wet	20.0	250		94	40-140		
Aroclor-1260	**166**		µg/kg wet	20.0	250		66	40-140		
Aroclor-1260 [2C]	**188**		µg/kg wet	20.0	250		75	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
LCS Dup (1319276-BSD1)					Prepared: 12-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	**230**		µg/kg wet	20.0	250		92	40-140	1	30
Aroclor-1016 [2C]	**233**		µg/kg wet	20.0	250		93	40-140	0.4	30
Aroclor-1260	**178**		µg/kg wet	20.0	250		71	40-140	7	30
Aroclor-1260 [2C]	**194**		µg/kg wet	20.0	250		78	40-140	3	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Batch 1319277 - SW846 3540C										
Blank (1319277-BLK1)					Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319277 - SW846 3540C										
Blank (1319277-BLK1)					Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
LCS (1319277-BS1)					Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**236**		µg/kg wet	20.0	250		94	40-140		
Aroclor-1016 [2C]	**204**		µg/kg wet	20.0	250		82	40-140		
Aroclor-1260	**226**		µg/kg wet	20.0	250		90	40-140		
Aroclor-1260 [2C]	**226**		µg/kg wet	20.0	250		90	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
LCS Dup (1319277-BSD1)					Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**234**		µg/kg wet	20.0	250		94	40-140	0.9	30
Aroclor-1016 [2C]	**204**		µg/kg wet	20.0	250		82	40-140	0	30
Aroclor-1260	**229**		µg/kg wet	20.0	250		92	40-140	1	30
Aroclor-1260 [2C]	**228**		µg/kg wet	20.0	250		91	40-140	0.9	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Duplicate (1319277-DUP1)			**Source: SB74822-10**		Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1016 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1221	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1221 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1232	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1232 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1242	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1242 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1248	**451**		µg/kg dry	21.6		504			11	30
Aroclor-1248 [2C]	**670**		µg/kg dry	21.6		696			4	30
Aroclor-1254	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1254 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1260	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1260 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1262	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1262 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1268	< 21.6		µg/kg dry	21.6		BRL				30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319277 - SW846 3540C										
Duplicate (1319277-DUP1)			**Source: SB74822-10**			Prepared: 12-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1268 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*17.3*		µg/kg dry		*21.6*		*80*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*18.3*		µg/kg dry		*21.6*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*16.2*		µg/kg dry		*21.6*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.1*		µg/kg dry		*21.6*		*70*	*30-150*		
Matrix Spike (1319277-MS1)			**Source: SB74822-10**			Prepared: 12-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1016	**514**	QM1	µg/kg dry	20.9	261	BRL	197	40-140		
Aroclor-1016 [2C]	**834**	QM1	µg/kg dry	20.9	261	BRL	320	40-140		
Aroclor-1260	**264**		µg/kg dry	20.9	261	BRL	101	40-140		
Aroclor-1260 [2C]	**217**		µg/kg dry	20.9	261	BRL	83	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*25.1*		µg/kg dry		*20.9*		*120*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*16.7*		µg/kg dry		*20.9*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*20.9*		µg/kg dry		*20.9*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.7*		µg/kg dry		*20.9*		*75*	*30-150*		
Matrix Spike Dup (1319277-MSD1)			**Source: SB74822-10**			Prepared: 12-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1016	**352**	QM1	µg/kg dry	20.8	261	BRL	135	40-140	37	30
Aroclor-1016 [2C]	**553**	QM1	µg/kg dry	20.8	261	BRL	212	40-140	40	30
Aroclor-1260	**263**		µg/kg dry	20.8	261	BRL	101	40-140	0.4	30
Aroclor-1260 [2C]	**188**		µg/kg dry	20.8	261	BRL	72	40-140	14	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.8*		µg/kg dry		*20.8*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*15.6*		µg/kg dry		*20.8*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.8*		µg/kg dry		*20.8*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*12.5*		µg/kg dry		*20.8*		*60*	*30-150*		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319332 - General Preparation										
Duplicate (1319332-DUP1)			**Source: SB74822-10**			Prepared & Analyzed: 13-Aug-13				
% Solids	**91.8**		%			91.3			0.5	20

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
QM1	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
R01	The Reporting Limit has been raised to account for matrix interference.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
SGC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk
Nicole Leja

SB74822 R1

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC2C

Turnaround Time: RUSH 48hr

Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-2C	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED		ADDITIONAL INFORMATION
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV: Store cool at 4°C / ANALYSIS: PCBs-Soxhelt Extraction 8082/3540		
AOC-2C - AA00(8)-1	Soil	~~8/6/2013~~ 8-12-13	1440	G=Grab	1	X		SB74822-01
AOC-2C - AAN01(8)-1	Soil	~~8/6/2013~~ 8-12-13	1442	G=Grab	1	X		-02
AOC-2C - AAN02(8)-1	Soil	~~8/6/2013~~ 8-12-13	1444	G=Grab	1	X		-03
AOC-2C - AAN03(7)-1	Soil	~~8/6/2013~~ 8-12-13	1446	G=Grab	1	X		-04
AOC-2C - AAS01(8)-1	Soil	~~8/6/2013~~ 8-12-13	1448	G=Grab	1	X		-05
AOC-2C - AAS02(8)-1	Soil	~~8/6/2013~~ 8-12-13	1450	G=Grab	1	X		-06
AOC-2C - AAS03(4)-1	Soil	~~8/6/2013~~ 8-12-13	1452	G=Grab	1	X		-07
AOC-2C - EB00(8)-1	Soil	~~8/6/2013~~ 8-12-13	1454	G=Grab	1	X		-08
AOC-2C - EBN01(8)-1	Soil	~~8/6/2013~~ 8-12-13	1456	G=Grab	1	X		-09
AOC-2C - EBN02(8)-1	Soil	~~8/6/2013~~ 8-12-13	1458	G=Grab	1	X		-10

Additional Comments/Special Instructions		Date	Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples		8-12-13			8-12-13 / 8/12/13	1545 / 1815				
							Y / N	Y / N	Y / N	
							Y / N	Y / N	Y / N	
							Y / N	Y / N	Y / N	
							Y / N	Y / N	Y / N	
							Temp in °C	Samples on ice?	Sample intact?	Trip Blank?

Sampler's Name	Julie Williams	Mobile #	631-786-6107
Sampler's Signature			

2/3/4/13 IR01

SB74822 M

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC2C

Turnaround Time: RUSH 48hr

Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-2C	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED		ADDITIONAL INFORMATION
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV. Store cool at 4°C	ANALYSIS PCBs-Soxhelt Extraction 8082/3540	
AOC-2C - ~~FB~~ EBN03(4)-1	Soil	~~8/6/2013~~ 8-12-13	1500	G=Grab	1		X	SB74822-11
AOC-2C - WB00(8)-1	Soil	~~8/6/2013~~ 8-12-13	1502	G=Grab	1		X	-12
AOC-2C - WBN01(8)-1	Soil	~~8/6/2013~~ 8-12-13	1504	G=Grab	1		X	-13
AOC-2C - WBN02(6)-1	Soil	~~8/6/2013~~ 8-12-13	1506	G=Grab	1		X	-14
AOC-2C - WBN03(3)-1	Soil	~~8/6/2013~~ 8-12-13	1508	G=Grab	1		X	-15
AOC-2C - ~~WBSWBS01(6)~~-1	Soil	~~8/6/2013~~ 8-12-13	1510	G=Grab	1		X	~~-16~~
AOC-2C - WBS02(4)-1	Soil	~~8/6/2013~~ 8-12-13	1512	G=Grab	1		X	~~-17~~ -16
AOC-2C - WC00(3)-1	Soil	~~8/6/2013~~ 8-12-13	1514	G=Grab	1		X	~~-18~~ -17
AOC-2C WCN01(3)-1	Soil	~~8/6/2013~~ 8-12-13	1516	G=Grab	1		X	~~-19~~ -18
AOC-2C WCS01(4)-1	Soil	~~8/6/2013~~ 8-12-13	1518	G=Grab	1		X	-20 -19

Sample not received PM 8/12

Additional Comments/Special Instructions	Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples	8-12-13	1520			8-12-13	3:34	Y / N	Y / N	Y / N	
					8/12/13	1615	Y / N	Y / N	Y / N	
							Y / N	Y / N	Y / N	
							Y / N	Y / N	Y / N	

				Temp in °C	Samples on ice?	Sample intact?	Trip Blank?
Sampler's Name	Julie Williams	Mobile #	631-786-6107				
Sampler's Signature							

2.3/-1/13 IR01

SB74822 M

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC2C | Page: 2 of 2

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-2C	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED		ADDITIONAL INFORMATION
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV: Store cool at 4°C	ANALYSIS: PCBs-Soxhelt Extraction 8082/3540	
AOC-2C - EBN03(4) - 1	Soil	~~8/6/2013~~ 8-12-13	1504	G=Grab	1		X	SB74822_11
AOC-2C - WB00(8) - 1	Soil	~~8/6/2013~~ 8-12-13	1502	G=Grab	1		X	-12
AOC-2C - WBN01(8) - 1	Soil	~~8/6/2013~~ 8-12-13	1504	G=Grab	1		X	-13
AOC-2C - WBN02(6) - 1	Soil	~~8/6/2013~~ 8-12-13	1506	G=Grab	1		X	-14
AOC-2C - WBN03(3) - 1	Soil	~~8/6/2013~~ 8-12-13	1508	G=Grab	1		X	-15
AOC-2C - ~~WBSWBS01(6)~~ - 1	Soil	~~8/6/2013~~ 8-12-13	1510	G=Grab	1		X	16 -16
AOC-2C - WBS02(4) - 1	Soil	~~8/6/2013~~ 8-12-13	1512	G=Grab	1		X	~~-17~~ -16
AOC-2C - WC00(3) - 1	Soil	~~8/6/2013~~ 8-12-13	1514	G=Grab	1		X	~~-18~~ -17
AOC-2C WCN01(3) - 1	Soil	~~8/6/2013~~ 8-12-13	1516	G=Grab	1		X	~~-19~~ -18
AOC-2C WCS01(4) - 1	Soil	~~8/6/2013~~ 8-12-13	1518	G=Grab	1		X	~~-20~~ -19

Sample not received PM 8/12

PM 8/12

Additional Comments/Special Instructions	Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples	8-12-13	1520			8-12-13	3:34		Y / N	Y / N	Y / N
					8/12/13	1615		Y / N	Y / N	Y / N
								Y / N	Y / N	Y / N
								Y / N	Y / N	Y / N
							Temp in °C	Samples on ice?	Sample intact?	Trip Blank?

Sampler's Name	Julie Williams	Mobile #	631-786-6107
Sampler's Signature			

2.3/-1/13 IR01

Report Date:
14-Aug-13 15:41

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: GHS- MISA - Greenwich, CT
Project #: 60225155

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74822-01	AOC-2C-AA00(8)-1	Soil	12-Aug-13 14:40	12-Aug-13 18:15
SB74822-02	AOC-2C-AAN01(8)-1	Soil	12-Aug-13 14:42	12-Aug-13 18:15
SB74822-03	AOC-2C-AAN02(8)-1	Soil	12-Aug-13 14:44	12-Aug-13 18:15
SB74822-04	AOC-2C-AAN03(7)-1	Soil	12-Aug-13 14:46	12-Aug-13 18:15
SB74822-05	AOC-2C-AAS01(8)-1	Soil	12-Aug-13 14:48	12-Aug-13 18:15
SB74822-06	AOC-2C-AAS02(8)-1	Soil	12-Aug-13 14:50	12-Aug-13 18:15
SB74822-07	AOC-2C-AAS03(4)-1	Soil	12-Aug-13 14:52	12-Aug-13 18:15
SB74822-08	AOC-2C-EB00(8)-1	Soil	12-Aug-13 14:54	12-Aug-13 18:15
SB74822-09	AOC-2C-EBN01(8)-1	Soil	12-Aug-13 14:56	12-Aug-13 18:15
SB74822-10	AOC-2C-EBN02(8)-1	Soil	12-Aug-13 14:58	12-Aug-13 18:15
SB74822-11	AOC-2C-EBN03(4)-1	Soil	12-Aug-13 15:00	12-Aug-13 18:15
SB74822-12	AOC-2C-WB00(8)-1	Soil	12-Aug-13 15:02	12-Aug-13 18:15
SB74822-13	AOC-2C-WBN01(8)-1	Soil	12-Aug-13 15:04	12-Aug-13 18:15
SB74822-14	AOC-2C-WBN02(6)-1	Soil	12-Aug-13 15:06	12-Aug-13 18:15
SB74822-15	AOC-2C-WBN03(3)-1	Soil	12-Aug-13 15:08	12-Aug-13 18:15
SB74822-16	AOC-2C-WBS01(8)-1	Soil	12-Aug-13 15:10	12-Aug-13 18:15
SB74822-17	AOC-2C-WC00(3)-1	Soil	12-Aug-13 15:14	12-Aug-13 18:15
SB74822-18	AOC-2C-WCN01(3)-1	Soil	12-Aug-13 15:16	12-Aug-13 18:15
SB74822-19	AOC-2C-WCS01(4)-1	Soil	12-Aug-13 15:18	12-Aug-13 18:15

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 30 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: GHS- MISA - Greenwich, CT

Project Number: 60225155

Sampling Date(s):
8/12/2013

Laboratory Sample ID(s):
SB74822-01 through SB74822-19

RCP Methods Used:
SW846 8082A

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/14/2013

CASE NARRATIVE:

The samples were received 1.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Spikes:

1319277-MS1 *Source: SB74822-10*

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016
Aroclor-1016 [2C]

1319277-MSD1 *Source: SB74822-10*

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016
Aroclor-1016 [2C]

Samples:

SB74822-05 *AOC-2C-AAS01(8)-1*

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

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB74822-06 *AOC-2C-AAS02(8)-1*

SW846 8082A

Samples:

SB74822-06 *AOC-2C-AAS02(8)-1*

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

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB74822-08 *AOC-2C-EB00(8)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

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

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB74822-11 *AOC-2C-EBN03(4)-1*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

4,4-DB-Octafluorobiphenyl (Sr)

SB74822-12 *AOC-2C-WB00(8)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB74822-13 *AOC-2C-WBN01(8)-1*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

4,4-DB-Octafluorobiphenyl (Sr)

SB74822-15 *AOC-2C-WBN03(3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74822-17 *AOC-2C-WC00(3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

SB74822-18 *AOC-2C-WCN01(3)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	GHS- MISA - Greenwich, CT / 60225155
Work Order:	SB74822
Sample(s) received on:	8/12/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-AA00(8)-1 SB74822-01	60225155	Soil	12-Aug-13 14:40	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.4		µg/kg dry	21.4	16.0	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 21.4		µg/kg dry	21.4	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.4		µg/kg dry	21.4	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.4		µg/kg dry	21.4	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**65.2**		µg/kg dry	21.4	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.4		µg/kg dry	21.4	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.4		µg/kg dry	21.4	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.82	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.4**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-AAN01(8)-1 SB74822-02	60225155	Soil	12-Aug-13 14:42	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	15.7	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	18.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**282**		µg/kg dry	21.0	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.0		µg/kg dry	21.0	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.0		µg/kg dry	21.0	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.65	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.0**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-AAN02(8)-1 SB74822-03	60225155	Soil	12-Aug-13 14:44	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.5		µg/kg dry	21.5	16.0	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 21.5		µg/kg dry	21.5	19.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.5		µg/kg dry	21.5	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.5		µg/kg dry	21.5	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**660**		µg/kg dry	21.5	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.5		µg/kg dry	21.5	17.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.5		µg/kg dry	21.5	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.5		µg/kg dry	21.5	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.5		µg/kg dry	21.5	8.86	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.9**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-AAN03(7)-1 SB74822-04	60225155	Soil	12-Aug-13 14:46	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.4		µg/kg dry	22.4	16.7	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 22.4		µg/kg dry	22.4	20.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.4		µg/kg dry	22.4	14.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.4		µg/kg dry	22.4	13.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**2,830**		µg/kg dry	22.4	11.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.4		µg/kg dry	22.4	18.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**94.1**		µg/kg dry	22.4	11.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.4		µg/kg dry	22.4	20.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.4		µg/kg dry	22.4	9.24	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**87.7**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-AAS01(8)-1 SB74822-05	60225155	Soil	12-Aug-13 14:48	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	15.7	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	18.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**3,040**		µg/kg dry	21.0	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.0		µg/kg dry	21.0	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**68.2**		µg/kg dry	21.0	10.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.65	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*12700*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.1**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-AAS02(8)-1 SB74822-06	60225155	Soil	12-Aug-13 14:50	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.8		µg/kg dry	21.8	16.3	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 21.8		µg/kg dry	21.8	19.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.8		µg/kg dry	21.8	14.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.8		µg/kg dry	21.8	13.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,420**		µg/kg dry	21.8	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.8		µg/kg dry	21.8	18.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**29.4**		µg/kg dry	21.8	10.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.8		µg/kg dry	21.8	20.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.8		µg/kg dry	21.8	8.99	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*11000*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.5**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-AAS03(4)-1 SB74822-07	60225155	Soil	12-Aug-13 14:52	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.5		µg/kg dry	22.5	16.8	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 22.5		µg/kg dry	22.5	20.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.5		µg/kg dry	22.5	14.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.5		µg/kg dry	22.5	13.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,870**		µg/kg dry	22.5	11.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.5		µg/kg dry	22.5	18.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**70.7**		µg/kg dry	22.5	11.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.5		µg/kg dry	22.5	20.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.5		µg/kg dry	22.5	9.26	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**87.9**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-EB00(8)-1 SB74822-08	60225155	Soil	12-Aug-13 14:54	12-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			GS1										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 214	D	µg/kg dry	214	160	10	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 214	D	µg/kg dry	214	193	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 214	D	µg/kg dry	214	137	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 214	D	µg/kg dry	214	129	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**11,100**	D	µg/kg dry	214	111	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 214	D	µg/kg dry	214	178	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 214	D	µg/kg dry	214	132	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 214	D	µg/kg dry	214	199	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 214	D	µg/kg dry	214	88.1	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*23500*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.1**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-EBN01(8)-1 SB74822-09	60225155	Soil	12-Aug-13 14:56	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.3		µg/kg dry	20.3	15.1	1	SW846 8082A	12-Aug-13	14-Aug-13	IMR	1319276	X
11104-28-2	Aroclor-1221	< 20.3		µg/kg dry	20.3	18.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.3		µg/kg dry	20.3	13.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.3		µg/kg dry	20.3	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,040**		µg/kg dry	20.3	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.3		µg/kg dry	20.3	16.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**33.4**		µg/kg dry	20.3	12.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.3		µg/kg dry	20.3	18.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.3		µg/kg dry	20.3	8.36	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.4**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319331	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-EBN02(8)-1 SB74822-10	60225155	Soil	12-Aug-13 14:58	12-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	16.1	1	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	19.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**696**		µg/kg dry	21.6	9.47	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.6		µg/kg dry	21.6	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.6		µg/kg dry	21.6	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.90	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.3**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-EBN03(4)-1 SB74822-11	60225155	Soil	12-Aug-13 15:00	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.2		µg/kg dry	21.2	15.8	1	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 21.2		µg/kg dry	21.2	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.2		µg/kg dry	21.2	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.2		µg/kg dry	21.2	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**2,240**		µg/kg dry	21.2	9.30	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**129**		µg/kg dry	21.2	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.73	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*165*	SGC		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.2**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-WB00(8)-1 SB74822-12	60225155	Soil	12-Aug-13 15:02	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			GS1										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 215	D	µg/kg dry	215	160	10	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 215	D	µg/kg dry	215	194	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 215	D	µg/kg dry	215	138	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 215	D	µg/kg dry	215	129	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**8,560**	D	µg/kg dry	215	112	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 215	D	µg/kg dry	215	179	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 215	D	µg/kg dry	215	133	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 215	D	µg/kg dry	215	200	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 215	D	µg/kg dry	215	88.6	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*150*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.6**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-WBN01(8)-1 SB74822-13	60225155	Soil	12-Aug-13 15:04	12-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.2		µg/kg dry	21.2	15.9	1	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 21.2		µg/kg dry	21.2	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.2		µg/kg dry	21.2	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.2		µg/kg dry	21.2	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**4,070**		µg/kg dry	21.2	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**79.6**		µg/kg dry	21.2	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.76	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*155*	SGC		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.3**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-WBN02(6)-1 SB74822-14	60225155	Soil	12-Aug-13 15:06	12-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.1		µg/kg dry	22.1	16.5	1	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 22.1		µg/kg dry	22.1	19.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.1		µg/kg dry	22.1	14.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.1		µg/kg dry	22.1	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**4,750**		µg/kg dry	22.1	9.70	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.1		µg/kg dry	22.1	18.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**197**		µg/kg dry	22.1	13.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.1		µg/kg dry	22.1	20.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.1		µg/kg dry	22.1	9.11	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.1**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-WBN03(3)-1 SB74822-15	60225155	Soil	12-Aug-13 15:08	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 96.6	R01	µg/kg dry	96.6	72.1	1	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 96.6	R01	µg/kg dry	96.6	87.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 96.6	R01	µg/kg dry	96.6	62.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 96.6	R01	µg/kg dry	96.6	58.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 96.6	R01	µg/kg dry	96.6	50.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.3		µg/kg dry	19.3	16.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.3		µg/kg dry	19.3	12.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.3		µg/kg dry	19.3	18.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.3		µg/kg dry	19.3	7.97	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**95.6**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-WBS01(8)-1 SB74822-16	60225155	Soil	12-Aug-13 15:10	12-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	15.9	1	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**361**		µg/kg dry	21.3	9.36	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.79	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.8**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-WC00(3)-1 SB74822-17	60225155	Soil	12-Aug-13 15:14	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 103	R01	µg/kg dry	103	77.2	1	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 103	R01	µg/kg dry	103	93.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 103	R01	µg/kg dry	103	66.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 103	R01	µg/kg dry	103	62.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 103	R01	µg/kg dry	103	53.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.7		µg/kg dry	20.7	17.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.7		µg/kg dry	20.7	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.7		µg/kg dry	20.7	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.7		µg/kg dry	20.7	8.52	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.5**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-WCN01(3)-1 SB74822-18	60225155	Soil	12-Aug-13 15:16	12-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 103	R01	µg/kg dry	103	77.0	1	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 103	R01	µg/kg dry	103	92.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 103	R01	µg/kg dry	103	66.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 103	R01	µg/kg dry	103	62.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 103	R01	µg/kg dry	103	53.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.6		µg/kg dry	20.6	12.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.50	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.4**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-WCS01(4)-1 SB74822-19	60225155	Soil	12-Aug-13 15:18	12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.5		µg/kg dry	22.5	16.8	1	SW846 8082A	12-Aug-13	14-Aug-13	BLM	1319277	X
11104-28-2	Aroclor-1221	< 22.5		µg/kg dry	22.5	20.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.5		µg/kg dry	22.5	14.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.5		µg/kg dry	22.5	13.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**4,440**		µg/kg dry	22.5	9.87	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.5		µg/kg dry	22.5	18.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**156**		µg/kg dry	22.5	13.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.5		µg/kg dry	22.5	20.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.5		µg/kg dry	22.5	9.27	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**86.2**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319276 - SW846 3540C										
Blank (1319276-BLK1)					Prepared: 12-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
LCS (1319276-BS1)					Prepared: 12-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	**227**		µg/kg wet	20.0	250		91	40-140		
Aroclor-1016 [2C]	**234**		µg/kg wet	20.0	250		94	40-140		
Aroclor-1260	**166**		µg/kg wet	20.0	250		66	40-140		
Aroclor-1260 [2C]	**188**		µg/kg wet	20.0	250		75	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
LCS Dup (1319276-BSD1)					Prepared: 12-Aug-13 Analyzed: 13-Aug-13					
Aroclor-1016	**230**		µg/kg wet	20.0	250		92	40-140	1	30
Aroclor-1016 [2C]	**233**		µg/kg wet	20.0	250		93	40-140	0.4	30
Aroclor-1260	**178**		µg/kg wet	20.0	250		71	40-140	7	30
Aroclor-1260 [2C]	**194**		µg/kg wet	20.0	250		78	40-140	3	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Batch 1319277 - SW846 3540C										
Blank (1319277-BLK1)					Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319277 - SW846 3540C										
Blank (1319277-BLK1)					Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
LCS (1319277-BS1)					Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**236**		µg/kg wet	20.0	250		94	40-140		
Aroclor-1016 [2C]	**204**		µg/kg wet	20.0	250		82	40-140		
Aroclor-1260	**226**		µg/kg wet	20.0	250		90	40-140		
Aroclor-1260 [2C]	**226**		µg/kg wet	20.0	250		90	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
LCS Dup (1319277-BSD1)					Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	**234**		µg/kg wet	20.0	250		94	40-140	0.9	30
Aroclor-1016 [2C]	**204**		µg/kg wet	20.0	250		82	40-140	0	30
Aroclor-1260	**229**		µg/kg wet	20.0	250		92	40-140	1	30
Aroclor-1260 [2C]	**228**		µg/kg wet	20.0	250		91	40-140	0.9	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Duplicate (1319277-DUP1)			**Source: SB74822-10**		Prepared: 12-Aug-13 Analyzed: 14-Aug-13					
Aroclor-1016	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1016 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1221	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1221 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1232	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1232 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1242	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1242 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1248	**451**		µg/kg dry	21.6		504			11	30
Aroclor-1248 [2C]	**670**		µg/kg dry	21.6		696			4	30
Aroclor-1254	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1254 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1260	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1260 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1262	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1262 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Aroclor-1268	< 21.6		µg/kg dry	21.6		BRL				30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319277 - SW846 3540C										
Duplicate (1319277-DUP1)			**Source: SB74822-10**			Prepared: 12-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1268 [2C]	< 21.6		µg/kg dry	21.6		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*17.3*		µg/kg dry		*21.6*		*80*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*18.3*		µg/kg dry		*21.6*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*16.2*		µg/kg dry		*21.6*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.1*		µg/kg dry		*21.6*		*70*	*30-150*		
Matrix Spike (1319277-MS1)			**Source: SB74822-10**			Prepared: 12-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1016	**514**	QM1	µg/kg dry	20.9	261	BRL	197	40-140		
Aroclor-1016 [2C]	**834**	QM1	µg/kg dry	20.9	261	BRL	320	40-140		
Aroclor-1260	**264**		µg/kg dry	20.9	261	BRL	101	40-140		
Aroclor-1260 [2C]	**217**		µg/kg dry	20.9	261	BRL	83	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*25.1*		µg/kg dry		*20.9*		*120*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*16.7*		µg/kg dry		*20.9*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*20.9*		µg/kg dry		*20.9*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.7*		µg/kg dry		*20.9*		*75*	*30-150*		
Matrix Spike Dup (1319277-MSD1)			**Source: SB74822-10**			Prepared: 12-Aug-13 Analyzed: 14-Aug-13				
Aroclor-1016	**352**	QM1	µg/kg dry	20.8	261	BRL	135	40-140	37	30
Aroclor-1016 [2C]	**553**	QM1	µg/kg dry	20.8	261	BRL	212	40-140	40	30
Aroclor-1260	**263**		µg/kg dry	20.8	261	BRL	101	40-140	0.4	30
Aroclor-1260 [2C]	**188**		µg/kg dry	20.8	261	BRL	72	40-140	14	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.8*		µg/kg dry		*20.8*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*15.6*		µg/kg dry		*20.8*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.8*		µg/kg dry		*20.8*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*12.5*		µg/kg dry		*20.8*		*60*	*30-150*		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319332 - General Preparation										
Duplicate (1319332-DUP1)			**Source: SB74822-10**			Prepared & Analyzed: 13-Aug-13				
% Solids	**91.8**		%			91.3			0.5	20

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
QM1	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
R01	The Reporting Limit has been raised to account for matrix interference.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
SGC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk
Nicole Leja

SB74822 R1

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC2C

Turnaround Time: RUSH 48hr

Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-2C	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED		ADDITIONAL INFORMATION
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV: Store cool at 4°C / ANALYSIS: PCBs-Soxhelt Extraction 8082/3540		
AOC-2C - AA00(8)-1	Soil	~~8/6/2013~~ 8-12-13	1440	G=Grab	1	X		SB74822-01
AOC-2C - AAN01(8)-1	Soil	~~8/6/2013~~ 8-12-13	1442	G=Grab	1	X		-02
AOC-2C - AAN02(8)-1	Soil	~~8/6/2013~~ 8-12-13	1444	G=Grab	1	X		-03
AOC-2C - AAN03(7)-1	Soil	~~8/6/2013~~ 8-12-13	1446	G=Grab	1	X		-04
AOC-2C - AAS01(8)-1	Soil	~~8/6/2013~~ 8-12-13	1448	G=Grab	1	X		-05
AOC-2C - AAS02(8)-1	Soil	~~8/6/2013~~ 8-12-13	1450	G=Grab	1	X		-06
AOC-2C - AAS03(4)-1	Soil	~~8/6/2013~~ 8-12-13	1452	G=Grab	1	X		-07
AOC-2C - EB00(8)-1	Soil	~~8/6/2013~~ 8-12-13	1454	G=Grab	1	X		-08
AOC-2C - EBN01(8)-1	Soil	~~8/6/2013~~ 8-12-13	1456	G=Grab	1	X		-09
AOC-2C - EBN02(8)-1	Soil	~~8/6/2013~~ 8-12-13	1458	G=Grab	1	X		-10

Additional Comments/Special Instructions		Date	Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples		8-12-13			8-12-13 / 8/12/13	1545 / 1815				
							Y / N	Y / N	Y / N	
							Y / N	Y / N	Y / N	
							Y / N	Y / N	Y / N	
							Y / N	Y / N	Y / N	
							Temp in °C	Samples on ice?	Sample intact?	Trip Blank?

Sampler's Name	Julie Williams	Mobile #	631-786-6107
Sampler's Signature			

2/3/4/13 IR01

SB74822 M

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC2C

Turnaround Time: RUSH 48hr

Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-2C	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED		ADDITIONAL INFORMATION
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV. Store cool at 4°C	ANALYSIS PCBs-Soxhelt Extraction 8082/3540	
AOC-2C - ~~FB~~ EBN03(4)-1	Soil	~~8/6/2013~~ 8-12-13	1500	G=Grab	1		X	SB74822-11
AOC-2C - WB00(8)-1	Soil	~~8/6/2013~~ 8-12-13	1502	G=Grab	1		X	-12
AOC-2C - WBN01(8)-1	Soil	~~8/6/2013~~ 8-12-13	1504	G=Grab	1		X	-13
AOC-2C - WBN02(6)-1	Soil	~~8/6/2013~~ 8-12-13	1506	G=Grab	1		X	-14
AOC-2C - WBN03(3)-1	Soil	~~8/6/2013~~ 8-12-13	1508	G=Grab	1		X	-15
AOC-2C - ~~WBSWBS01(6)~~-1	Soil	~~8/6/2013~~ 8-12-13	1510	G=Grab	1		X	~~-16~~
AOC-2C - WBS02(4)-1	Soil	~~8/6/2013~~ 8-12-13	1512	G=Grab	1		X	~~-17~~ -16
AOC-2C - WC00(3)-1	Soil	~~8/6/2013~~ 8-12-13	1514	G=Grab	1		X	~~-18~~ -17
AOC-2C WCN01(3)-1	Soil	~~8/6/2013~~ 8-12-13	1516	G=Grab	1		X	~~-19~~ -18
AOC-2C WCS01(4)-1	Soil	~~8/6/2013~~ 8-12-13	1518	G=Grab	1		X	-20 -19

Sample not received PM 8/12

Additional Comments/Special Instructions	Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples	8-12-13	1520			8-12-13	3:34	Y / N	Y / N	Y / N	
					8/12/13	1615	Y / N	Y / N	Y / N	
							Y / N	Y / N	Y / N	
							Y / N	Y / N	Y / N	

				Temp in °C	Samples on ice?	Sample intact?	Trip Blank?
Sampler's Name	Julie Williams	Mobile #	631-786-6107				
Sampler's Signature							

2.3/-1/13 IR01

SB74822 M

AECOM

Chain Of Custody Record

COC ID: COC_GHS MISA_AOC2C | Page: 2 of 2

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-2C	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED		ADDITIONAL INFORMATION
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV: Store cool at 4°C	ANALYSIS: PCBs-Soxhelt Extraction 8082/3540	
AOC-2C - EBN03(4) - 1	Soil	~~8/6/2013~~ 8-12-13	1504	G=Grab	1		X	SB74822_11
AOC-2C - WB00(8) - 1	Soil	~~8/6/2013~~ 8-12-13	1502	G=Grab	1		X	-12
AOC-2C - WBN01(8) - 1	Soil	~~8/6/2013~~ 8-12-13	1504	G=Grab	1		X	-13
AOC-2C - WBN02(6) - 1	Soil	~~8/6/2013~~ 8-12-13	1506	G=Grab	1		X	-14
AOC-2C - WBN03(3) - 1	Soil	~~8/6/2013~~ 8-12-13	1508	G=Grab	1		X	-15
AOC-2C - ~~WBSWBS01(6)~~ - 1	Soil	~~8/6/2013~~ 8-12-13	1510	G=Grab	1		X	16 -16
AOC-2C - WBS02(4) - 1	Soil	~~8/6/2013~~ 8-12-13	1512	G=Grab	1		X	~~-17~~ -16
AOC-2C - WC00(3) - 1	Soil	~~8/6/2013~~ 8-12-13	1514	G=Grab	1		X	~~-18~~ -17
AOC-2C WCN01(3) - 1	Soil	~~8/6/2013~~ 8-12-13	1516	G=Grab	1		X	~~-19~~ -18
AOC-2C WCS01(4) - 1	Soil	~~8/6/2013~~ 8-12-13	1518	G=Grab	1		X	~~-20~~ -19

Sample not received PM 8/12

PM 8/12

Additional Comments/Special Instructions	Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush on PCB samples	8-12-13	1520			8-12-13	3:34		Y / N	Y / N	Y / N
					8/12/13	1615		Y / N	Y / N	Y / N
								Y / N	Y / N	Y / N
								Y / N	Y / N	Y / N
							Temp in °C	Samples on ice?	Sample intact?	Trip Blank?

Sampler's Name	Julie Williams	Mobile #	631-786-6107
Sampler's Signature			

2.3/-1/13 IR01

Report Date:
14-Aug-13 14:04

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: GHS- MISA - Greenwich, CT
Project #: 60225155

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74823-01	AOC-2-BOT-1	Soil	12-Aug-13 15:30	12-Aug-13 18:15
SB74823-02	AOC-2-ESW-1	Soil	12-Aug-13 15:32	12-Aug-13 18:15
SB74823-03	AOC-2-SSW-1	Soil	12-Aug-13 15:33	12-Aug-13 18:15
SB74823-04	AOC-2-WSW-1	Soil	12-Aug-13 15:34	12-Aug-13 18:15
SB74823-05	AOC-2-NSW-1	Soil	12-Aug-13 15:35	12-Aug-13 18:15

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 9 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: GHS- MISA - Greenwich, CT

Project Number: 60225155

Sampling Date(s):
8/12/2013

Laboratory Sample ID(s):
SB74823-01 through SB74823-05

RCP Methods Used:

SW846 1312

SW846 1312/6010C

SW846 6010C

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja

Nicole Leja
Laboratory Director
Date: 8/14/2013

CASE NARRATIVE:

The samples were received 1.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 6010C

Spikes:

1319278-MSD1 *Source: SB74823-05*

The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.

Lead

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	GHS- MISA - Greenwich, CT / 60225155
Work Order:	SB74823
Sample(s) received on:	8/12/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification
AOC-2-BOT-1
SB74823-01

Client Project #: 60225155 | Matrix: Soil | Collection Date/Time: 12-Aug-13 15:30 | Received: 12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods													
7439-92-1	Lead	121		mg/kg dry	1.53	0.565	1	SW846 6010C	12-Aug-13	13-Aug-13	LR	1319278	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Metals Prepared by method SW846 1312													
	SPLP Extraction	Completed		N/A			1	SW846 1312	12-Aug-13	13-Aug-13	CMB	1319220	X
	Final pH of leachate	9.79		N/A			1	"	"	"	"	"	
7439-92-1	Lead	0.0311		mg/l	0.0150	0.0042	1	SW846 1312/6010C	13-Aug-13	14-Aug-13	ARF	1319304	X
General Chemistry Parameters													
	% Solids	94.2		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification
AOC-2-ESW-1
SB74823-02

Client Project #: 60225155 | Matrix: Soil | Collection Date/Time: 12-Aug-13 15:32 | Received: 12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods													
7439-92-1	Lead	73.9		mg/kg dry	1.48	0.546	1	SW846 6010C	12-Aug-13	13-Aug-13	LR	1319278	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Metals Prepared by method SW846 1312													
	SPLP Extraction	Completed		N/A			1	SW846 1312	12-Aug-13	13-Aug-13	CMB	1319220	X
	Final pH of leachate	9.66		N/A			1	"	"	"	"	"	
7439-92-1	Lead	0.0300		mg/l	0.0150	0.0042	1	SW846 1312/6010C	13-Aug-13	14-Aug-13	ARF	1319304	X
General Chemistry Parameters													
	% Solids	92.8		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification
AOC-2-SSW-1
SB74823-03

Client Project #: 60225155 | Matrix: Soil | Collection Date/Time: 12-Aug-13 15:33 | Received: 12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods													
7439-92-1	Lead	381		mg/kg dry	1.53	0.562	1	SW846 6010C	12-Aug-13	13-Aug-13	LR	1319278	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Metals Prepared by method SW846 1312													
	SPLP Extraction	Completed		N/A			1	SW846 1312	12-Aug-13	13-Aug-13	CMB	1319220	X
	Final pH of leachate	8.90		N/A			1	"	"	"	"	"	
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0042	1	SW846 1312/6010C	13-Aug-13	14-Aug-13	ARF	1319304	X
General Chemistry Parameters													
	% Solids	92.1		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification
AOC-2-WSW-1
SB74823-04

Client Project #: 60225155 | Matrix: Soil | Collection Date/Time: 12-Aug-13 15:34 | Received: 12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods													
7439-92-1	Lead	**28.4**		mg/kg dry	1.57	0.578	1	SW846 6010C	12-Aug-13	13-Aug-13	LR	1319278	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Metals Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	12-Aug-13	13-Aug-13	CMB	1319220	X
	Final pH of leachate	**9.24**		N/A			1	"	"	"	"	"	
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0042	1	SW846 1312/6010C	13-Aug-13	14-Aug-13	ARF	1319304	X
General Chemistry Parameters													
	% Solids	**91.1**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Sample Identification
AOC-2-NSW-1
SB74823-05

Client Project #: 60225155 | Matrix: Soil | Collection Date/Time: 12-Aug-13 15:35 | Received: 12-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods													
7439-92-1	Lead	**291**		mg/kg dry	1.53	0.563	1	SW846 6010C	12-Aug-13	13-Aug-13	LR	1319278	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Metals Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	12-Aug-13	13-Aug-13	CMB	1319220	X
	Final pH of leachate	**9.44**		N/A			1	"	"	"	"	"	
7439-92-1	Lead	**0.0290**		mg/l	0.0150	0.0042	1	SW846 1312/6010C	13-Aug-13	14-Aug-13	ARF	1319304	X
General Chemistry Parameters													
	% Solids	**91.9**		%			1	SM2540 G Mod.	13-Aug-13	13-Aug-13	DT	1319332	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319278 - SW846 3050B										
Blank (1319278-BLK1)						Prepared: 12-Aug-13 Analyzed: 13-Aug-13				
Lead	< 1.40		mg/kg wet	1.40						
Duplicate (1319278-DUP1)			**Source: SB74823-05**			Prepared: 12-Aug-13 Analyzed: 13-Aug-13				
Lead	**304**		mg/kg dry	1.60		291			4	20
Matrix Spike (1319278-MS1)			**Source: SB74823-05**			Prepared: 12-Aug-13 Analyzed: 13-Aug-13				
Lead	**433**		mg/kg dry	1.55	130	291	109	75-125		
Matrix Spike Dup (1319278-MSD1)			**Source: SB74823-05**			Prepared: 12-Aug-13 Analyzed: 13-Aug-13				
Lead	**488**	QM9	mg/kg dry	1.58	132	291	150	75-125	12	20
Reference (1319278-SRM1)						Prepared: 12-Aug-13 Analyzed: 13-Aug-13				
Lead	**65.6**		mg/kg wet	1.50	69.5		94	83.82-116.91		
Reference (1319278-SRM2)						Prepared: 12-Aug-13 Analyzed: 13-Aug-13				
Lead	**65.8**		mg/kg wet	1.50	69.2		95	83.82-116.91		

SPLP Metals by EPA 1312 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319304 - SW846 3010A										
Blank (1319304-BLK1)						Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Lead	< 0.0150		mg/l	0.0150						
LCS (1319304-BS1)						Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Lead	**2.45**		mg/l	0.0150	2.50		98	85-115		
LCS Dup (1319304-BSD1)						Prepared: 13-Aug-13 Analyzed: 14-Aug-13				
Lead	**2.49**		mg/l	0.0150	2.50		99	85-115	2	20

Notes and Definitions

QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk

SB74823RH

AECOM Chain Of Custody Record

COC ID: COC_GHS MISA_AOC2 | Page: 1 of 2 1

Turnaround Time: RUSH 48hr | Rush:

PROJECT/CLIENT INFO		LABORATORY		OTHER INFO	
Facility Name	GHS MISA	Lab Name	SPECTRUM	Send Invoice To	Michael Doherty
Task Name	AOC-2	Contact Name	Nicole Leja	Address	500 Enterprise Drive Suite 1A
Project #/ Purchase Order #	60225155 MISA0600	Address	11 Almgren Drive		
Project Manager	Malcolm Beeler/Michael Doherty			City, State	Rocky Hill, CT
Address	500 Enterprise Drive Suite 1A	City, State	Agawam	Postal Code, Country	06067, USA
		Post Code, Country	01001	Phone Number	978-905-2424
City, State	Rocky Hill CT	Phone Number	413-789-9018	EDD To	malcolm.beeler@aecom.com, julie.williams2@aecom.com, Michael.Doherty@aecom.com
Postal Code, Country	06067 USA	Email Address	nleja@spectrum-analytical.com	Report To	Malcolm Beeler
Phone Number		Pricing Schedule			

SAMPLE DETAILS						ANALYSIS REQUESTED		ADDITIONAL INFORMATION
Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV. / ANALYSIS: Store cool at 4°C / Total and SPLP Lead		
AOC-2-BOT -1	Soil	~~8/6/2013~~ 8.12.13	1530	G=Grab	1	X		SB74823-01
AOC-2-ESW -1	Soil	~~8/6/2013~~ 8.12.13	1532	G=Grab	1	X		-02
AOC-2-SSW -1	Soil	~~8/6/2013~~ 8.12.13	1533	G=Grab	1	X		-03
AOC-2-WSW -1	Soil	~~8/6/2013~~ 8.12.13	1534	G=Grab	1	X		-04
AOC-2-NSW -1	Soil	~~8/6/2013~~ 8.12.13	1535	G=Grab	1	X		-05

Additional Comments/Special Instructions	Date		Time	Accepted By/Affiliation	Date	Time	Sample Receipt Conditions			
48 Hour Rush ~~on PCB samples~~	8/12/13	1530			8-12-13	334		Y / N	Y / N	Y / N
					8/12/13	1815		Y / N	Y / N	Y / N
								Y / N	Y / N	Y / N
								Y / N	Y / N	Y / N

Sampler's Name	Julie Williams	Mobile #	631-786-6107	Temp in °C	Samples on ice? / Sample intact? / Trip Blank?
Sampler's Signature					

2,3/-1/13IR01

Report Date:
16-Aug-13 10:51

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: Greenwich HS - Greenwich, CT
Project #: 60225155.MISA0600

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74884-01	AOC-4-BOT (6)-1	Soil	13-Aug-13 14:20	13-Aug-13 17:05
SB74884-02	AOC-4-SSW(4)-1	Soil	13-Aug-13 14:22	13-Aug-13 17:05
SB74884-03	AOC-4-NSW(4)-1	Soil	13-Aug-13 14:24	13-Aug-13 17:05
SB74884-04	AOC-4-ESW(4)-1	Soil	13-Aug-13 14:26	13-Aug-13 17:05
SB74884-05	AOC-4-WSW(4)-1	Soil	13-Aug-13 14:28	13-Aug-13 17:05

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

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Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: Greenwich HS - Greenwich, CT

Project Number: 60225155.MISA0600

Sampling Date(s):
8/13/2013

Laboratory Sample ID(s):
SB74884-01 through SB74884-05

RCP Methods Used:
CT ETPH
SW846 8082A

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/16/2013

CASE NARRATIVE:

The samples were received 3.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Spikes:

1319413-MS1 *Source: SB74884-05*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aroclor-1260
Aroclor-1260 [2C]

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016
Aroclor-1016 [2C]

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

4,4-DB-Octafluorobiphenyl (Sr)

1319413-MSD1 *Source: SB74884-05*

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Aroclor-1016
Aroclor-1016 [2C]

SW846 8082A

Spikes:

1319413-MSD1 *Source: SB74884-05*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aroclor-1260
Aroclor-1260 [2C]

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016
Aroclor-1016 [2C]

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

4,4-DB-Octafluorobiphenyl (Sr)

Duplicates:

1319413-DUP1 *Source: SB74884-05*

RPD out of acceptance range.

Aroclor-1260

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

4,4-DB-Octafluorobiphenyl (Sr)

Samples:

SB74884-01 *AOC-4-BOT (6)-1*

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

4,4-DB-Octafluorobiphenyl (Sr)

SB74884-02 *AOC-4-SSW(4)-1*

Difference between the two GC columns is greater than 40%.

Aroclor-1248

SB74884-03 *AOC-4-NSW(4)-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254

SB74884-05 *AOC-4-WSW(4)-1*

Difference between the two GC columns is greater than 40%.

Aroclor-1254 [2C]
Aroclor-1260 [2C]

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

4,4-DB-Octafluorobiphenyl (Sr)

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	Greenwich HS - Greenwich, CT / 60225155.MISA0600
Work Order:	SB74884
Sample(s) received on:	8/13/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-4-BOT (6)-1 SB74884-01	60225155.MISA0600	Soil	13-Aug-13 14:20	13-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	13-Aug-13	15-Aug-13	BLM	1319413	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**3,000**		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**88.3**		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.57	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*185*	S02		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.0		mg/kg dry	29.0	1.4	1	CT ETPH	15-Aug-13	16-Aug-13	SEP	1319633	
68476-30-2	Fuel Oil #2	< 29.0		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 29.0		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.0		mg/kg dry	29.0	7.2	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.0		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.0		mg/kg dry	29.0	7.2	1	"	"	"	"	"	
	Unidentified	**102**		mg/kg dry	29.0	7.2	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**102**		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**102**		mg/kg dry	29.0	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*79*			*50-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.7**		%			1	SM2540 G Mod.	14-Aug-13	14-Aug-13	DT	1319494	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-4-SSW(4)-1 SB74884-02	60225155.MISA0600	Soil	13-Aug-13 14:22	13-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	15.9	1	SW846 8082A	13-Aug-13	15-Aug-13	BLM	1319413	X
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**846**	P	µg/kg dry	21.3	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**608**		µg/kg dry	21.3	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**488**		µg/kg dry	21.3	10.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.79	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.6		mg/kg dry	29.6	1.5	1	CT ETPH	15-Aug-13	16-Aug-13	SEP	1319633	
68476-30-2	Fuel Oil #2	< 29.6		mg/kg dry	29.6	3.0	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 29.6		mg/kg dry	29.6	3.0	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.6		mg/kg dry	29.6	7.4	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.6		mg/kg dry	29.6	3.0	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.6		mg/kg dry	29.6	7.4	1	"	"	"	"	"	
	Unidentified	**79.4**		mg/kg dry	29.6	7.4	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	29.6	3.0	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**79.4**		mg/kg dry	29.6	3.0	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**79.4**		mg/kg dry	29.6	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*89*			*50-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.2**		%			1	SM2540 G Mod.	14-Aug-13	14-Aug-13	DT	1319495	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-4-NSW(4)-1 SB74884-03	60225155.MISA0600	Soil	13-Aug-13 14:24	13-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 110	R01	µg/kg dry	110	82.1	1	SW846 8082A	13-Aug-13	15-Aug-13	BLM	1319413	X
11104-28-2	Aroclor-1221	< 110	R01	µg/kg dry	110	99.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 110	R01	µg/kg dry	110	70.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 110	R01	µg/kg dry	110	66.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 110	R01	µg/kg dry	110	57.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 110	R01	µg/kg dry	110	91.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**1,230**		µg/kg dry	22.0	11.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.07	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.0		mg/kg dry	29.0	1.4	1	CT ETPH	15-Aug-13	16-Aug-13	SEP	1319633	
68476-30-2	Fuel Oil #2	**Calculated as**		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 29.0		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.0		mg/kg dry	29.0	7.2	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.0		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.0		mg/kg dry	29.0	7.2	1	"	"	"	"	"	
	Unidentified	**480**		mg/kg dry	29.0	7.2	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**480**		mg/kg dry	29.0	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**480**		mg/kg dry	29.0	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*82*			*50-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.9**		%			1	SM2540 G Mod.	14-Aug-13	14-Aug-13	DT	1319495	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-4-ESW(4)-1 SB74884-04	60225155.MISA0600	Soil	13-Aug-13 14:26	13-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.4		µg/kg dry	20.4	15.3	1	SW846 8082A	13-Aug-13	15-Aug-13	BLM	1319413	X
11104-28-2	Aroclor-1221	< 20.4		µg/kg dry	20.4	18.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.4		µg/kg dry	20.4	13.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.4		µg/kg dry	20.4	12.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**100**		µg/kg dry	20.4	8.97	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.4		µg/kg dry	20.4	17.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.4		µg/kg dry	20.4	12.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.4		µg/kg dry	20.4	19.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.4		µg/kg dry	20.4	8.43	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*135*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.3		mg/kg dry	28.3	1.4	1	CT ETPH	15-Aug-13	16-Aug-13	SEP	1319633	
68476-30-2	Fuel Oil #2	< 28.3		mg/kg dry	28.3	2.8	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 28.3		mg/kg dry	28.3	2.8	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.3		mg/kg dry	28.3	7.1	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.3		mg/kg dry	28.3	2.8	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.3		mg/kg dry	28.3	7.1	1	"	"	"	"	"	
	Unidentified	**83.4**		mg/kg dry	28.3	7.1	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	28.3	2.8	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**83.4**		mg/kg dry	28.3	2.8	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**83.4**		mg/kg dry	28.3	2.6	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*78*			*50-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.6**		%			1	SM2540 G Mod.	14-Aug-13	14-Aug-13	DT	1319495	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-4-WSW(4)-1 SB74884-05	60225155.MISA0600	Soil	13-Aug-13 14:28	13-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.3		µg/kg dry	22.3	16.6	1	SW846 8082A	13-Aug-13	15-Aug-13	BLM	1319413	X
11104-28-2	Aroclor-1221	< 22.3		µg/kg dry	22.3	20.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.3		µg/kg dry	22.3	14.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.3		µg/kg dry	22.3	13.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,400**		µg/kg dry	22.3	11.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	**1,030**	P	µg/kg dry	22.3	13.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**1,670**	P	µg/kg dry	22.3	11.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.3		µg/kg dry	22.3	20.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.3		µg/kg dry	22.3	9.19	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*260*	S02		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.6		mg/kg dry	29.6	1.5	1	CT ETPH	15-Aug-13	16-Aug-13	SEP	1319633	
68476-30-2	Fuel Oil #2	< 29.6		mg/kg dry	29.6	3.0	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 29.6		mg/kg dry	29.6	3.0	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.6		mg/kg dry	29.6	7.4	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.6		mg/kg dry	29.6	3.0	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.6		mg/kg dry	29.6	7.4	1	"	"	"	"	"	
	Unidentified	**477**		mg/kg dry	29.6	7.4	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	29.6	3.0	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**477**		mg/kg dry	29.6	3.0	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**477**		mg/kg dry	29.6	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*78*			*50-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.7**		%			1	SM2540 G Mod.	14-Aug-13	14-Aug-13	DT	1319495	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319413 - SW846 3540C										
Blank (1319413-BLK1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
LCS (1319413-BS1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**246**		µg/kg wet	20.0	250		98	40-140		
Aroclor-1016 [2C]	**222**		µg/kg wet	20.0	250		89	40-140		
Aroclor-1260	**231**		µg/kg wet	20.0	250		92	40-140		
Aroclor-1260 [2C]	**229**		µg/kg wet	20.0	250		92	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
LCS Dup (1319413-BSD1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**253**		µg/kg wet	20.0	250		101	40-140	3	30
Aroclor-1016 [2C]	**210**		µg/kg wet	20.0	250		84	40-140	6	30
Aroclor-1260	**240**		µg/kg wet	20.0	250		96	40-140	4	30
Aroclor-1260 [2C]	**228**		µg/kg wet	20.0	250		91	40-140	0.4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*26.0*		µg/kg wet		*20.0*		*130*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Duplicate (1319413-DUP1)			**Source: SB74884-05**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	< 22.1		µg/kg dry	22.1		BRL				30
Aroclor-1016 [2C]	< 22.1		µg/kg dry	22.1		BRL				30
Aroclor-1221	< 22.1		µg/kg dry	22.1		BRL				30
Aroclor-1221 [2C]	< 22.1		µg/kg dry	22.1		BRL				30
Aroclor-1232	< 22.1		µg/kg dry	22.1		BRL				30
Aroclor-1232 [2C]	< 22.1		µg/kg dry	22.1		BRL				30
Aroclor-1242	< 22.1		µg/kg dry	22.1		BRL				30
Aroclor-1242 [2C]	< 22.1		µg/kg dry	22.1		BRL				30
Aroclor-1248	**1530**		µg/kg dry	22.1		1400			9	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319413 - SW846 3540C										
Duplicate (1319413-DUP1)			**Source: SB74884-05**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1248 [2C]	**1370**		µg/kg dry	22.1		1020			29	30
Aroclor-1254	**1700**		µg/kg dry	22.1		1600			6	30
Aroclor-1254 [2C]	**1350**		µg/kg dry	22.1		1030			26	30
Aroclor-1260	**1680**	QR5	µg/kg dry	22.1		2510			40	30
Aroclor-1260 [2C]	**1390**		µg/kg dry	22.1		1670			18	30
Aroclor-1262	< 22.1		µg/kg dry	22.1		BRL				30
Aroclor-1262 [2C]	< 22.1		µg/kg dry	22.1		BRL				30
Aroclor-1268	< 22.1		µg/kg dry	22.1		BRL				30
Aroclor-1268 [2C]	< 22.1		µg/kg dry	22.1		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*412*	S02	µg/kg dry		*22.1*		*1870*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.1*		µg/kg dry		*22.1*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*25.4*		µg/kg dry		*22.1*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.9*		µg/kg dry		*22.1*		*90*	*30-150*		
Matrix Spike (1319413-MS1)			**Source: SB74884-05**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**774**	QM1	µg/kg dry	22.4	280	BRL	277	40-140		
Aroclor-1016 [2C]	**774**	QM1	µg/kg dry	22.4	280	BRL	277	40-140		
Aroclor-1260	**2030**	QM2	µg/kg dry	22.4	280	2510	-173	40-140		
Aroclor-1260 [2C]	**1530**	QM2	µg/kg dry	22.4	280	1670	-47	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*43.6*	S02	µg/kg dry		*22.4*		*195*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.2*		µg/kg dry		*22.4*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*25.7*		µg/kg dry		*22.4*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.1*		µg/kg dry		*22.4*		*90*	*30-150*		
Matrix Spike Dup (1319413-MSD1)			**Source: SB74884-05**		Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**512**	QM1, QR9	µg/kg dry	21.4	267	BRL	192	40-140	36	30
Aroclor-1016 [2C]	**1170**	QM1, QR9	µg/kg dry	21.4	267	BRL	437	40-140	45	30
Aroclor-1260	**1510**	QM2	µg/kg dry	21.4	267	2510	-375	40-140	NR	30
Aroclor-1260 [2C]	**1480**	QM2	µg/kg dry	21.4	267	1670	-68	40-140	NR	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*33.1*	S02	µg/kg dry		*21.4*		*155*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*24.6*		µg/kg dry		*21.4*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.2*		µg/kg dry		*21.4*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.3*		µg/kg dry		*21.4*		*95*	*30-150*		

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319633 - SW846 3550C										
Blank (1319633-BLK1)						Prepared & Analyzed: 15-Aug-13				
Gasoline	< 26.6		mg/kg wet	26.6						
Fuel Oil #2	< 26.6		mg/kg wet	26.6						
Fuel Oil #4	< 26.6		mg/kg wet	26.6						
Fuel Oil #6	< 26.6		mg/kg wet	26.6						
Motor Oil	< 26.6		mg/kg wet	26.6						
Aviation Fuel	< 26.6		mg/kg wet	26.6						
Unidentified	< 26.6		mg/kg wet	26.6						
Other Oil	< 26.6		mg/kg wet	26.6						
Total Petroleum Hydrocarbons	< 26.6		mg/kg wet	26.6						
C9-C36 Aliphatic Hydrocarbons	< 26.6		mg/kg wet	26.6						
n-Nonadecane	< 0.005		mg/kg wet	0.005						
n-Nonane	< 0.005		mg/kg wet	0.005						
n-Decane	< 0.005		mg/kg wet	0.005						
n-Dodecane	< 0.005		mg/kg wet	0.005						
n-Tetradecane	< 0.005		mg/kg wet	0.005						
n-Hexadecane	< 0.005		mg/kg wet	0.005						
n-Octadecane	< 0.005		mg/kg wet	0.005						
n-Eicosane	< 0.005		mg/kg wet	0.005						
n-Docosane	< 0.005		mg/kg wet	0.005						
n-Tetracosane	< 0.005		mg/kg wet	0.005						
n-Hexacosane	< 0.005		mg/kg wet	0.005						
n-Octacosane	< 0.005		mg/kg wet	0.005						
n-Triacontane	< 0.005		mg/kg wet	0.005						
n-Hexatriacontane	< 0.005		mg/kg wet	0.005						
Surrogate: 1-Chlorooctadecane	*2.63*		mg/kg wet		*3.33*		*79*	*50-150*		
LCS (1319633-BS1)						Prepared & Analyzed: 15-Aug-13				
C9-C36 Aliphatic Hydrocarbons	**64.5**		mg/kg wet	26.6	93.3		69	60-120		
Surrogate: 1-Chlorooctadecane	*2.84*		mg/kg wet		*3.33*		*85*	*50-150*		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319495 - General Preparation										
Duplicate (1319495-DUP1)			**Source: SB74884-02**		Prepared & Analyzed: 14-Aug-13					
% Solids	**88.8**		%			89.2			0.4	20

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S304818				
Initial Cal Check (S304818-ICV1)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.270728E+08	-2.8	30
n-Nonadecane	3.561546E+08	3.675153E+08	3.2	30
n-Nonane	3.732875E+08	3.681448E+08	-1.4	30
n-Decane	3.651436E+08	3.651315E+08	-0.003	30
n-Dodecane	3.48398E+08	3.592906E+08	3.1	30
n-Tetradecane	3.588449E+08	3.665299E+08	2.1	30
n-Hexadecane	3.756608E+08	3.74015E+08	-0.4	30
n-Octadecane	3.775606E+08	3.791863E+08	0.4	30
n-Eicosane	3.825055E+08	3.811256E+08	-0.4	30
n-Docosane	3.815533E+08	3.84155E+08	0.7	30
n-Tetracosane	3.82641E+08	3.839073E+08	0.3	30
n-Hexacosane	3.864596E+08	3.855051E+08	-0.2	30
n-Octacosane	3.839113E+08	3.752925E+08	-2.2	30
n-Triacontane	3.841358E+08	3.849129E+08	0.2	30
n-Hexatriacontane	3.752619E+08	3.758944E+08	0.2	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309748				
Calibration Check (S309748-CCV2)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.354935E+08	-0.4	30
n-Nonadecane	3.561546E+08	3.574848E+08	0.4	30
n-Nonane	3.732875E+08	3.605414E+08	-3.4	30
n-Decane	3.651436E+08	3.628912E+08	-0.6	30
n-Dodecane	3.48398E+08	3.587742E+08	3.0	30
n-Tetradecane	3.588449E+08	3.603706E+08	0.4	30
n-Hexadecane	3.756608E+08	3.613186E+08	-3.8	30
n-Octadecane	3.775606E+08	3.613214E+08	-4.3	30
n-Eicosane	3.825055E+08	3.589978E+08	-6.1	30
n-Docosane	3.815533E+08	3.56079E+08	-6.7	30
n-Tetracosane	3.82641E+08	3.537461E+08	-7.6	30
n-Hexacosane	3.864596E+08	3.541226E+08	-8.4	30
n-Octacosane	3.839113E+08	3.499732E+08	-8.8	30
n-Triacontane	3.841358E+08	3.496499E+08	-9.0	30
n-Hexatriacontane	3.752619E+08	3.462704E+08	-7.7	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309748				
Calibration Check (S309748-CCV4)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	3.820734E+08	-15.6	30
n-Nonadecane	3.561546E+08	3.15197E+08	-11.5	30
n-Nonane	3.732875E+08	3.134779E+08	-16.0	30
n-Decane	3.651436E+08	3.148152E+08	-13.8	30
n-Dodecane	3.48398E+08	3.122192E+08	-10.4	30
n-Tetradecane	3.588449E+08	3.1435E+08	-12.4	30
n-Hexadecane	3.756608E+08	3.164253E+08	-15.8	30
n-Octadecane	3.775606E+08	3.178924E+08	-15.8	30
n-Eicosane	3.825055E+08	3.175303E+08	-17.0	30
n-Docosane	3.815533E+08	3.147603E+08	-17.5	30
n-Tetracosane	3.82641E+08	3.136506E+08	-18.0	30
n-Hexacosane	3.864596E+08	3.151899E+08	-18.4	30
n-Octacosane	3.839113E+08	3.128169E+08	-18.5	30
n-Triacontane	3.841358E+08	3.14028E+08	-18.3	30
n-Hexatriacontane	3.752619E+08	3.108408E+08	-17.2	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S309748				
Calibration Check (S309748-CCV6)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.121591E+08	-7.1	30
n-Nonadecane	3.561546E+08	3.305964E+08	-7.2	30
n-Nonane	3.732875E+08	3.247446E+08	-13.0	30
n-Decane	3.651436E+08	3.273237E+08	-10.4	30
n-Dodecane	3.48398E+08	3.252978E+08	-6.6	30
n-Tetradecane	3.588449E+08	3.289273E+08	-8.3	30
n-Hexadecane	3.756608E+08	3.3226E+08	-11.6	30
n-Octadecane	3.775606E+08	3.33297E+08	-11.7	30
n-Eicosane	3.825055E+08	3.325118E+08	-13.1	30
n-Docosane	3.815533E+08	3.301674E+08	-13.5	30
n-Tetracosane	3.82641E+08	3.286824E+08	-14.1	30
n-Hexacosane	3.864596E+08	3.294982E+08	-14.7	30
n-Octacosane	3.839113E+08	3.25884E+08	-15.1	30
n-Triacontane	3.841358E+08	3.261669E+08	-15.1	30
n-Hexatriacontane	3.752619E+08	3.257682E+08	-13.2	30

Notes and Definitions

P	Difference between the two GC columns is greater than 40%.
QM1	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
QM2	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QR5	RPD out of acceptance range.
QR9	RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.
R01	The Reporting Limit has been raised to account for matrix interference.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin and waste automobile oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as Calculated as.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Nicole Leja

SB 74884e

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☑ Rush TAT - Date Needed: 48 hr
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Malcolm Beeler
500 Enterprise Dr.
Rocky Hill CT

Telephone #:

Project Mgr. M. Beeler / M. Doherty

Invoice To: Mike Doherty
500 Enterprise Dr.
Rocky Hill CT

P.O. No.: RQN:

Project No.: 60225155, MISA0600
Site Name: Greenwich HS
Location: Greenwich State: CT
Sampler(s): J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= 11=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	PCBs (Soxhlet) CT ETPH								
74884-01	AOC-4-BOT(6)-1	8-13-13	1420	G	SO		1			X								
-02	AOC-4-SSW(4)-1	8-13-13	1422	G	SO		1			X								
-03	AOC-4-NSW(4)-1	8-13-13	1424	G	SO		1			X								
-04	AOC-4-ESW(4)-1	8-13-13	1426	G	SO		1			X								
-05	AOC-4-WSW(4)-1	8-13-13	1428	G	SO		1			✓								

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☑ No ☐
per report history 2
QA/QC Reporting Level 8 hrs
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER V*
☐ Other
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
	Jet	8-13-13		
Jet		8/13/13	1705	

☑ EDD Format Equis
☐ E-mail to malcolm.beeler@AECOM.com
julie.williams2@AECOM.com

☐ Ambient ☑ Iced ☐ Refrigerated ☐ Fridge temp °C ☐ Freezer temp °C

42/1/3.2 IR01

Report Date:
15-Aug-13 15:30

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: Greenwich HS - Greenwich, CT
Project #: 60225155.MISA0600

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74887-01	AOC-2C-WBS01(8)-1	Soil	13-Aug-13 08:36	13-Aug-13 17:10
SB74887-02	AOC-2C-EBS01(8)-1	Soil	13-Aug-13 08:30	13-Aug-13 17:10
SB74887-03	AOC-2C-EBS02(8)-1	Soil	13-Aug-13 08:32	13-Aug-13 17:10
SB74887-04	AOC-2C-EBS03(4)-1	Soil	13-Aug-13 08:34	13-Aug-13 17:10

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 10 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: Greenwich HS - Greenwich, CT

Project Number: 60225155.MISA0600

Sampling Date(s):
8/13/2013

Laboratory Sample ID(s):
SB74887-01 through SB74887-04

RCP Methods Used:
SW846 8082A

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/15/2013

CASE NARRATIVE:

The samples were received 3.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Samples:

SB74887-01 *AOC-2C-WBS01(8)-1*

Difference between the two GC columns is greater than 40%.

Aroclor-1260

SB74887-02 *AOC-2C-EBS01(8)-1*

Difference between the two GC columns is greater than 40%.

Aroclor-1248

SB74887-03 *AOC-2C-EBS02(8)-1*

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

4,4-DB-Octafluorobiphenyl (Sr)

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	Greenwich HS - Greenwich, CT / 60225155.MISA0600
Work Order:	SB74887
Sample(s) received on:	8/13/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-WBS01(8)-1	60225155.MISA0600	Soil	13-Aug-13 08:36	13-Aug-13
SB74887-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.7		µg/kg dry	20.7	15.5	1	SW846 8082A	13-Aug-13	15-Aug-13	BLM	1319413	X
11104-28-2	Aroclor-1221	< 20.7		µg/kg dry	20.7	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.7		µg/kg dry	20.7	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.7		µg/kg dry	20.7	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**653**		µg/kg dry	20.7	9.10	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.7		µg/kg dry	20.7	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**25.9**	P	µg/kg dry	20.7	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.7		µg/kg dry	20.7	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.7		µg/kg dry	20.7	8.55	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.7**		%			1	SM2540 G Mod.	14-Aug-13	14-Aug-13	DT	1319495	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-EBS01(8)-1	60225155.MISA0600	Soil	13-Aug-13 08:30	13-Aug-13
SB74887-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.5		µg/kg dry	20.5	15.3	1	SW846 8082A	13-Aug-13	15-Aug-13	BLM	1319413	X
11104-28-2	Aroclor-1221	< 20.5		µg/kg dry	20.5	18.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.5		µg/kg dry	20.5	13.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.5		µg/kg dry	20.5	12.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**354**	P	µg/kg dry	20.5	10.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.5		µg/kg dry	20.5	17.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.5		µg/kg dry	20.5	12.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.5		µg/kg dry	20.5	19.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.5		µg/kg dry	20.5	8.45	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**93.7**		%			1	SM2540 G Mod.	14-Aug-13	14-Aug-13	DT	1319495	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-EBS02(8)-1	60225155.MISA0600	Soil	13-Aug-13 08:32	13-Aug-13
SB74887-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.8		µg/kg dry	21.8	16.3	1	SW846 8082A	13-Aug-13	15-Aug-13	BLM	1319413	X
11104-28-2	Aroclor-1221	< 21.8		µg/kg dry	21.8	19.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.8		µg/kg dry	21.8	14.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.8		µg/kg dry	21.8	13.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**2,500**		µg/kg dry	21.8	9.58	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.8		µg/kg dry	21.8	18.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**78.5**		µg/kg dry	21.8	13.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.8		µg/kg dry	21.8	20.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.8		µg/kg dry	21.8	9.00	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*890*	S02		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.0**		%			1	SM2540 G Mod.	14-Aug-13	14-Aug-13	DT	1319495	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-EBS03(4)-1	60225155.MISA0600	Soil	13-Aug-13 08:34	13-Aug-13
SB74887-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	13-Aug-13	15-Aug-13	BLM	1319413	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**1,120**		µg/kg dry	20.8	9.12	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**74.8**		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.57	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.6**		%			1	SM2540 G Mod.	14-Aug-13	14-Aug-13	DT	1319495	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319413 - SW846 3540C										
Blank (1319413-BLK1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
LCS (1319413-BS1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**246**		µg/kg wet	20.0	250		98	40-140		
Aroclor-1016 [2C]	**222**		µg/kg wet	20.0	250		89	40-140		
Aroclor-1260	**231**		µg/kg wet	20.0	250		92	40-140		
Aroclor-1260 [2C]	**229**		µg/kg wet	20.0	250		92	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
LCS Dup (1319413-BSD1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**253**		µg/kg wet	20.0	250		101	40-140	3	30
Aroclor-1016 [2C]	**210**		µg/kg wet	20.0	250		84	40-140	6	30
Aroclor-1260	**240**		µg/kg wet	20.0	250		96	40-140	4	30
Aroclor-1260 [2C]	**228**		µg/kg wet	20.0	250		91	40-140	0.4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*26.0*		µg/kg wet		*20.0*		*130*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		

Notes and Definitions

P	Difference between the two GC columns is greater than 40%.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk
Nicole Leja

SB 74887

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 48 hr.
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Malcolm Beeler
500 Enterprise Dr. Suite 1A
Rocky Hill CT 060067

Telephone #:

Project Mgr: M. Becler / M. Donerty

Invoice To: Mike Donerty
500 Enterprise Dr
Rocky Hill, CT 060067

P.O. No.: RQN:

Project No.: 60225155.MISA0600

Site Name: Greenwich HS

Location: Greenwich State: CT

Sampler(s): J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= ice 12=

List preservative code below: 11

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCB-Soxhlet
748701	AOC-2C-WBS01(8)-1	8-13-12	0836	G	SO		1			X
-02	AOC-2C-EBS01(8)-1	8-13-12	0830	G	SO		1			X
-03	AOC-2C-EBS02(8)-1	8-13-12	0832	G	SO		1			X
-04	AOC-2C-EBS03(4)-1	8-13-12	0834	G	SO		1			X

MA DEP MCP CAM Report: Yes ☑ No ☐
CT DPH RCP Report: Yes ☑ No ☐
PA project has MS/MSD
QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
Julie Williams / JW	JW	8-13-13		
		8/13/13	1710	

☑ EDD Format Equis
☐ E-mail to malcolm.becler@AECOM.com
julie.williams2@AECOM.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

4.2/-1/3.2 IR

Report Date:
15-Aug-13 15:34

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: Greenwich HS - Greenwich, CT
Project #: 60225155.MISA0600

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74890-01	AOC-1B-2-SS1-1	Soil	13-Aug-13 13:50	13-Aug-13 17:05
SB74890-02	AOC-1B-2-SS2-1	Soil	13-Aug-13 13:52	13-Aug-13 17:05
SB74890-03	AOC-1B-2-SS3-1	Soil	13-Aug-13 13:54	13-Aug-13 17:05

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 9 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: Greenwich HS - Greenwich, CT

Project Number: 60225155.MISA0600

Sampling Date(s):
8/13/2013

Laboratory Sample ID(s):
SB74890-01 through SB74890-03

RCP Methods Used:
SW846 8082A

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/15/2013

CASE NARRATIVE:

The samples were received 3.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Samples:

SB74890-01 *AOC-1B-2-SS1-1*

Difference between the two GC columns is greater than 40%.

Aroclor-1248

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	Greenwich HS - Greenwich, CT / 60225155.MISA0600
Work Order:	SB74890
Sample(s) received on:	8/13/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☐	☑	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-2-SS1-1 SB74890-01	60225155.MISA0600	Soil	13-Aug-13 13:50	13-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.2		µg/kg dry	21.2	15.8	1	SW846 8082A	13-Aug-13	15-Aug-13	BLM	1319413	X
11104-28-2	Aroclor-1221	< 21.2		µg/kg dry	21.2	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.2		µg/kg dry	21.2	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.2		µg/kg dry	21.2	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**244**	P	µg/kg dry	21.2	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	< 21.2		µg/kg dry	21.2	10.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.73	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**93.2**		%			1	SM2540 G Mod.	14-Aug-13	14-Aug-13	DT	1319495	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-2-SS2-1 SB74890-02	60225155.MISA0600	Soil	13-Aug-13 13:52	13-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	16.1	1	SW846 8082A	13-Aug-13	15-Aug-13	BLM	1319413	X
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**165**		µg/kg dry	21.6	9.48	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.6		µg/kg dry	21.6	18.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.6		µg/kg dry	21.6	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.91	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.5**		%			1	SM2540 G Mod.	14-Aug-13	14-Aug-13	DT	1319495	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-2-SS3-1 SB74890-03	60225155.MISA0600	Soil	13-Aug-13 13:54	13-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.0		µg/kg dry	22.0	16.4	1	SW846 8082A	13-Aug-13	15-Aug-13	BLM	1319413	X
11104-28-2	Aroclor-1221	< 22.0		µg/kg dry	22.0	19.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.0		µg/kg dry	22.0	14.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.0		µg/kg dry	22.0	13.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**1,180**		µg/kg dry	22.0	9.66	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.0		µg/kg dry	22.0	18.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**50.6**		µg/kg dry	22.0	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.08	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*145*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**87.7**		%			1	SM2540 G Mod.	14-Aug-13	14-Aug-13	DT	1319495	

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319413 - SW846 3540C										
Blank (1319413-BLK1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
LCS (1319413-BS1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**246**		µg/kg wet	20.0	250		98	40-140		
Aroclor-1016 [2C]	**222**		µg/kg wet	20.0	250		89	40-140		
Aroclor-1260	**231**		µg/kg wet	20.0	250		92	40-140		
Aroclor-1260 [2C]	**229**		µg/kg wet	20.0	250		92	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
LCS Dup (1319413-BSD1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**253**		µg/kg wet	20.0	250		101	40-140	3	30
Aroclor-1016 [2C]	**210**		µg/kg wet	20.0	250		84	40-140	6	30
Aroclor-1260	**240**		µg/kg wet	20.0	250		96	40-140	4	30
Aroclor-1260 [2C]	**228**		µg/kg wet	20.0	250		91	40-140	0.4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*26.0*		µg/kg wet		*20.0*		*130*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		

Notes and Definitions

P	Difference between the two GC columns is greater than 40%.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk
Nicole Leja

SB 74890

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☑ Rush TAT - Date Needed: 40 hr
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Malcolm Beeler
500 Enterprise Dr.
Rocky Hill CT

Telephone #:

Project Mgr. M. Beeler

Invoice To: Same

P.O. No.: RQN:

Project No.: 60225155. MISA0600
Site Name: Greenwich HS MISA
Location: Greenwich State: CT
Sampler(s): J Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= H_3PO_4 11= 12=

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs (Soxhlet)
74890-01	AOC-1B-2-SS1-1	8-13-13	1350	G	SO		1			X
-02	AOC-1B-2-SS2-1	8-13-13	1352	G	SO		1			X
-03	AOC-1B-2-SS3-1	8-13-13	1354	G	SO		1			X

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☐ No ☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
Julie Williams		8-13-13		
		8/13/13	1705	

☑ EDD Format Equis
☑ E-mail to malcolm.beeler@AECom.com
julie.williams2@AECom.com

Condition upon receipt:
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

4.2/-1/32 IR

Report Date:
15-Aug-13 15:56

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: Greenwich HS - Greenwich, CT
Project #: 60225155.MISA0600

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74891-01	AOC-1B-3-SS1-1	Soil	13-Aug-13 14:00	13-Aug-13 17:05
SB74891-02	AOC-1B-3-SS2-1	Soil	13-Aug-13 14:02	13-Aug-13 17:05
SB74891-03	AOC-1B-3-SS3-1	Soil	13-Aug-13 14:04	13-Aug-13 17:05

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 9 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: Greenwich HS - Greenwich, CT

Project Number: 60225155.MISA0600

Sampling Date(s):
8/13/2013

Laboratory Sample ID(s):
SB74891-01 through SB74891-03

RCP Methods Used:
SW846 8082A

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/15/2013

CASE NARRATIVE:

The samples were received 3.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Samples:

SB74891-02 *AOC-1B-3-SS2-1*

Difference between the two GC columns is greater than 40%.

Aroclor-1248

SB74891-03 *AOC-1B-3-SS3-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	Greenwich HS - Greenwich, CT / 60225155.MISA0600
Work Order:	SB74891
Sample(s) received on:	8/13/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-3-SS1-1 SB74891-01	60225155.MISA0600	Soil	13-Aug-13 14:00	13-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	13-Aug-13	15-Aug-13	BLM	1319413	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**167**		µg/kg dry	20.8	9.13	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.8		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.57	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*150*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.1**		%			1	SM2540 G Mod.	14-Aug-13	14-Aug-13	DT	1319495	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-3-SS2-1 SB74891-02	60225155.MISA0600	Soil	13-Aug-13 14:02	13-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.9		µg/kg dry	21.9	16.4	1	SW846 8082A	13-Aug-13	15-Aug-13	BLM	1319413	X
11104-28-2	Aroclor-1221	< 21.9		µg/kg dry	21.9	19.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.9		µg/kg dry	21.9	14.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.9		µg/kg dry	21.9	13.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**809**	P	µg/kg dry	21.9	11.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.9		µg/kg dry	21.9	18.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**28.5**		µg/kg dry	21.9	11.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.9		µg/kg dry	21.9	20.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.9		µg/kg dry	21.9	9.05	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.9**		%			1	SM2540 G Mod.	14-Aug-13	14-Aug-13	DT	1319495	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-1B-3-SS3-1	60225155.MISA0600	Soil	13-Aug-13 14:04	13-Aug-13
SB74891-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			GS1										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 427	D	µg/kg dry	427	319	20	SW846 8082A	13-Aug-13	15-Aug-13	BLM	1319413	X
11104-28-2	Aroclor-1221	< 427	D	µg/kg dry	427	385	20	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 427	D	µg/kg dry	427	274	20	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 427	D	µg/kg dry	427	257	20	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**28,400**	D	µg/kg dry	427	188	20	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 427	D	µg/kg dry	427	356	20	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**427**	D	µg/kg dry	427	214	20	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 427	D	µg/kg dry	427	398	20	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 427	D	µg/kg dry	427	176	20	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*0*	S01		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*0*	S01		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*0*	S01		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*0*	S01		*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.2**		%			1	SM2540 G Mod.	14-Aug-13	14-Aug-13	DT	1319495	

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319413 - SW846 3540C										
Blank (1319413-BLK1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
LCS (1319413-BS1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**246**		µg/kg wet	20.0	250		98	40-140		
Aroclor-1016 [2C]	**222**		µg/kg wet	20.0	250		89	40-140		
Aroclor-1260	**231**		µg/kg wet	20.0	250		92	40-140		
Aroclor-1260 [2C]	**229**		µg/kg wet	20.0	250		92	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
LCS Dup (1319413-BSD1)					Prepared: 13-Aug-13 Analyzed: 15-Aug-13					
Aroclor-1016	**253**		µg/kg wet	20.0	250		101	40-140	3	30
Aroclor-1016 [2C]	**210**		µg/kg wet	20.0	250		84	40-140	6	30
Aroclor-1260	**240**		µg/kg wet	20.0	250		96	40-140	4	30
Aroclor-1260 [2C]	**228**		µg/kg wet	20.0	250		91	40-140	0.4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*26.0*		µg/kg wet		*20.0*		*130*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
P	Difference between the two GC columns is greater than 40%.
S01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk
Nicole Leja

SB 74891

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☑ Rush TAT - Date Needed: 40 hr
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: M. Beeler
500 Enterprise Dr
Rocky Hill CT

Telephone #:
Project Mgr. M. Beeler/M. Dorhety

Invoice To: Mike Doherty
500 Enterprise Dr.
Rocky Hill CT

P.O. No.: RQN:

Project No.: 60225155. MISA0600
Site Name: Greenwich HS MISA
Location: Greenwich State: CT
Sampler(s): J. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= 11=

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses: PCB (Soxhlet)
74891-01	AOC-1B-3-SS1-1	8-13-13	1400	G	So		1				x
-02	AOC-1B-3-SS2-1	8-13-13	1402	G	So		1				x
-03	AOC-1B-3-SS3-1	8-13-13	1404	G	So		1				x

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☐ No ☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER V*
☐ Other

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
	JET	8-13-13	1500	
JET	JLH	8/13/13	1705	

☑ EDD Format Equis
☐ E-mail to malcolm.beeler@AECOM.com
julie.williams2@AECOM.com

☐ Ambient ☒ Iced ☐ Refrigerated ☐ Fridge temp ___ °C ☐ Freezer temp ___ °C

12-1-32 IR 01

Report Date:
16-Aug-13 15:54

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: Greenwich HS - Greenwich, CT
Project #: 60225155.MISA 0600

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74978-01	AOC-2A-2-AA00-1	Soil	14-Aug-13 14:40	14-Aug-13 17:30
SB74978-02	AOC-2A-2-AAN01-1	Soil	14-Aug-13 14:42	14-Aug-13 17:30
SB74978-03	AOC-2A-2-AAS01-1	Soil	14-Aug-13 14:44	14-Aug-13 17:30
SB74978-04	AOC-2A-2-EB00-1	Soil	14-Aug-13 14:46	14-Aug-13 17:30
SB74978-05	AOC-2A-2-EBN01-1	Soil	14-Aug-13 14:48	14-Aug-13 17:30
SB74978-06	AOC-2A-2-WB00	Soil	14-Aug-13 14:50	14-Aug-13 17:30
SB74978-07	AOC-2A-2-WBS01-1	Soil	14-Aug-13 14:52	14-Aug-13 17:30

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 13 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: Greenwich HS - Greenwich, CT

Project Number: 60225155.MISA 0600

Sampling Date(s):
8/14/2013

Laboratory Sample ID(s):
SB74978-01 through SB74978-07

RCP Methods Used:
SW846 8082A

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/16/2013

CASE NARRATIVE:

The samples were received 2.9 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Samples:

SB74978-04 *AOC-2A-2-EB00-1*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1248

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	Greenwich HS - Greenwich, CT / 60225155.MISA 0600
Work Order:	SB74978
Sample(s) received on:	8/14/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-2-AA00-1 SB74978-01	60225155.MISA 0600	Soil	14-Aug-13 14:40	14-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	14-Aug-13	16-Aug-13	IMR	1319552	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**45.7**		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.8		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.57	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.4**		%			1	SM2540 G Mod.	15-Aug-13	15-Aug-13	DT	1319634	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-2-AAN01-1	60225155.MISA 0600	Soil	14-Aug-13 14:42	14-Aug-13
SB74978-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.0		µg/kg dry	20.0	14.9	1	SW846 8082A	14-Aug-13	16-Aug-13	IMR	1319552	X
11104-28-2	Aroclor-1221	< 20.0		µg/kg dry	20.0	18.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.0		µg/kg dry	20.0	12.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.0		µg/kg dry	20.0	12.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	116		µg/kg dry	20.0	10.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.0		µg/kg dry	20.0	16.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.0		µg/kg dry	20.0	12.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.0		µg/kg dry	20.0	18.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.0		µg/kg dry	20.0	8.24	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	93.4		%			1	SM2540 G Mod.	15-Aug-13	15-Aug-13	DT	1319634	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-2-AAS01-1 SB74978-03	60225155.MISA 0600	Soil	14-Aug-13 14:44	14-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	14-Aug-13	16-Aug-13	IMR	1319552	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**207**		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.8		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.56	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.9**		%			1	SM2540 G Mod.	15-Aug-13	15-Aug-13	DT	1319634	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-2-EB00-1	60225155.MISA 0600	Soil	14-Aug-13 14:46	14-Aug-13
SB74978-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.1		µg/kg dry	21.1	15.7	1	SW846 8082A	14-Aug-13	16-Aug-13	IMR	1319552	X
11104-28-2	Aroclor-1221	< 21.1		µg/kg dry	21.1	19.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.1		µg/kg dry	21.1	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.1		µg/kg dry	21.1	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 211	R01	µg/kg dry	211	110	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.1		µg/kg dry	21.1	17.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.1		µg/kg dry	21.1	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.1		µg/kg dry	21.1	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.1		µg/kg dry	21.1	8.69	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.6**		%			1	SM2540 G Mod.	15-Aug-13	15-Aug-13	DT	1319634	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-2-EBN01-1 SB74978-05	60225155.MISA 0600	Soil	14-Aug-13 14:48	14-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	15.9	1	SW846 8082A	14-Aug-13	16-Aug-13	IMR	1319552	X
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.3		µg/kg dry	21.3	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.78	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.7**		%			1	SM2540 G Mod.	15-Aug-13	15-Aug-13	DT	1319634	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-2-WB00	60225155.MISA 0600	Soil	14-Aug-13 14:50	14-Aug-13
SB74978-06				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.9		µg/kg dry	19.9	14.8	1	SW846 8082A	14-Aug-13	16-Aug-13	IMR	1319552	X
11104-28-2	Aroclor-1221	< 19.9		µg/kg dry	19.9	17.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.9		µg/kg dry	19.9	12.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.9		µg/kg dry	19.9	11.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,380**		µg/kg dry	19.9	10.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.9		µg/kg dry	19.9	16.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**25.8**		µg/kg dry	19.9	9.93	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.9		µg/kg dry	19.9	18.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.9		µg/kg dry	19.9	8.19	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**94.3**		%			1	SM2540 G Mod.	15-Aug-13	15-Aug-13	DT	1319634	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2A-2-WBS01-1 SB74978-07	60225155.MISA 0600	Soil	14-Aug-13 14:52	14-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.9		µg/kg dry	21.9	16.4	1	SW846 8082A	14-Aug-13	16-Aug-13	IMR	1319552	X
11104-28-2	Aroclor-1221	< 21.9		µg/kg dry	21.9	19.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.9		µg/kg dry	21.9	14.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.9		µg/kg dry	21.9	13.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,150**		µg/kg dry	21.9	11.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.9		µg/kg dry	21.9	18.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**34.0**		µg/kg dry	21.9	11.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.9		µg/kg dry	21.9	20.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.9		µg/kg dry	21.9	9.04	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.3**		%			1	SM2540 G Mod.	15-Aug-13	15-Aug-13	DT	1319634	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319552 - SW846 3540C										
Blank (1319552-BLK1)					Prepared: 14-Aug-13 Analyzed: 16-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
LCS (1319552-BS1)					Prepared: 14-Aug-13 Analyzed: 16-Aug-13					
Aroclor-1016	**246**		µg/kg wet	20.0	250		98	40-140		
Aroclor-1016 [2C]	**226**		µg/kg wet	20.0	250		90	40-140		
Aroclor-1260	**215**		µg/kg wet	20.0	250		86	40-140		
Aroclor-1260 [2C]	**210**		µg/kg wet	20.0	250		84	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
LCS Dup (1319552-BSD1)					Prepared: 14-Aug-13 Analyzed: 16-Aug-13					
Aroclor-1016	**249**		µg/kg wet	20.0	250		100	40-140	1	30
Aroclor-1016 [2C]	**254**		µg/kg wet	20.0	250		102	40-140	12	30
Aroclor-1260	**217**		µg/kg wet	20.0	250		87	40-140	0.9	30
Aroclor-1260 [2C]	**205**		µg/kg wet	20.0	250		82	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		

Notes and Definitions

R01	The Reporting Limit has been raised to account for matrix interference.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk
Nicole Leja

SB74978RH1

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 48 hr
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Malcolm Beeler
500 Enterprise Dr.
Suite 1A
Rocky Hill CT
Telephone #:
Project Mgr. M. Beeler / M. Doherty

Invoice To: Mike Doherty
Same
P.O. No.: RQN:

Project No.: 60225155. MISA0600
Site Name: Greenwich HS
Location: Greenwich State: CT
Sampler(s): J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= 11=

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	PCBs (Soxhlet)
SB74978-01	AOC-2A-2-AA00-1	8.14.13	1440	G	So		1			X
-02	AOC-2A-2-AAN01-1	8.14.13	1442	G	So		1			X
-03	AOC-2A-2-AAS01-1	8.14.13	1444	G	So		1			X
-04	AOC-2A-2-EB00-1	8.14.13	1446	G	So		1			X
-05	AOC-2A-2-EBN01-1	8.14.13	1448	G	So		1			X
-06	AOC-2A-2-WB00	8.14.13	1450	G	So		1			X
-07	AOC-2A-2-WBS01-1	8.14.13	1452	G	So		1			X

Containers: # of VOA Vials, # of Amber Glass, # of Clear Glass, # of Plastic
Analyses: PCBs (Soxhlet)

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☒ No ☐
Re: project history RH 8/14
QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER V*
☐ Other
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
Jet	Jet	8.14.13	1455	
	JCH	8/14/13	1730	

☒ EDD Format EQUIS
☒ E-mail to Malcolm.Beeler@AECOM.com
Julie.Williams2@AECOM.com

☐ Ambient ☒ Iced ☐ Refrigerated ☐ Fridge temp ___ °C ☐ Freezer temp ___ °C

3.9/-1/29 IR 01

Report Date:
16-Aug-13 10:39

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: Greenwich HS - Greenwich, CT
Project #: 60225155.MISA 0600

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB74979-01	AOC-3-2-BOT-1	Soil	14-Aug-13 14:30	14-Aug-13 17:30

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 8 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: Greenwich HS - Greenwich, CT

Project Number: 60225155.MISA 0600

Sampling Date(s):
8/14/2013

Laboratory Sample ID(s):
SB74979-01

RCP Methods Used:
SW846 1312
SW846 1312/6010C
SW846 6010C

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/16/2013

CASE NARRATIVE:

The samples were received 2.9 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

For this work order, the reporting limits have not been referenced or specified.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	Greenwich HS - Greenwich, CT / 60225155.MISA 0600
Work Order:	SB74979
Sample(s) received on:	8/14/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-3-2-BOT-1 SB74979-01	60225155.MISA 0600	Soil	14-Aug-13 14:30	14-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods													
7439-92-1	Lead	**12.6**		mg/kg dry	1.57	0.580	1	SW846 6010C	14-Aug-13	15-Aug-13	LR	1319548	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Metals Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	14-Aug-13	15-Aug-13	CMB	1319521	X
	Final pH of leachate	**9.25**		N/A			1	"	"	"	"	"	
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0042	1	SW846 1312/6010C	15-Aug-13	15-Aug-13	TBC	1319571	X
General Chemistry Parameters													
	% Solids	**86.0**		%			1	SM2540 G Mod.	14-Aug-13	14-Aug-13	DJB	1319549	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319548 - SW846 3050B										
Blank (1319548-BLK1)						Prepared: 14-Aug-13	Analyzed: 15-Aug-13			
Lead	< 1.38		mg/kg wet	1.38						
Duplicate (1319548-DUP1)			**Source: SB74979-01**			Prepared: 14-Aug-13	Analyzed: 15-Aug-13			
Lead	**12.4**		mg/kg dry	1.61		12.6			2	20
Matrix Spike (1319548-MS1)			**Source: SB74979-01**			Prepared: 14-Aug-13	Analyzed: 15-Aug-13			
Lead	**130**		mg/kg dry	1.55	129	12.6	91	75-125		
Matrix Spike Dup (1319548-MSD1)			**Source: SB74979-01**			Prepared: 14-Aug-13	Analyzed: 15-Aug-13			
Lead	**129**		mg/kg dry	1.51	126	12.6	92	75-125	0.9	20
Post Spike (1319548-PS1)			**Source: SB74979-01**			Prepared: 14-Aug-13	Analyzed: 15-Aug-13			
Lead	**141**		mg/kg dry	1.57	131	12.6	98	80-120		
Reference (1319548-SRM1)						Prepared: 14-Aug-13	Analyzed: 15-Aug-13			
Lead	**65.4**		mg/kg wet	1.50	68.4		96	83.82-116.91		
Reference (1319548-SRM2)						Prepared: 14-Aug-13	Analyzed: 15-Aug-13			
Lead	**65.7**		mg/kg wet	1.50	70.4		93	83.82-116.91		

SPLP Metals by EPA 1312 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319571 - SW846 3010A										
Blank (1319571-BLK1)						Prepared & Analyzed: 15-Aug-13				
Lead	< 0.0150		mg/l	0.0150						
LCS (1319571-BS1)						Prepared & Analyzed: 15-Aug-13				
Lead	**2.48**		mg/l	0.0150	2.50		99	85-115		
LCS Dup (1319571-BSD1)						Prepared & Analyzed: 15-Aug-13				
Lead	**2.58**		mg/l	0.0150	2.50		103	85-115	4	20

Notes and Definitions

dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Nicole Leja

SB74979R1

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page _____ of _____

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: ~~24 hr~~ +48 h
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

For SPLP analysis per method 1311 pb per client request

Report To: Malcolm Beeler
500 Enterprise Dr.
Suite 1A
Rocky Hill CT
Telephone #:
Project Mgr. M. Beeler

Invoice To: Mike Doherty
Same
P.O. No.: _____ RQN: _____

Project No.: 60225155.MISA0600
Site Name: Greenwich HS
Location: Greenwich State: CT
Sampler(s): J Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= _____ 11= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: Total + SPLP lead
SB74979-1	AOC-3-2-13OT-1	8.14.13	1430	SOG	So		1			X

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☐ No ☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER V*
☐ Other _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
		8.14.13	1455	
		8/14/13	1730	

☒ EDD Format EQUIS
☒ E-mail to malcolm.beeler@AECOM.com
julie.williams2@AECOM.com

☐ Ambient ☒ Iced ☐ Refrigerated ☐ Fridge temp ___ °C ☐ Freezer temp ___ °C

8.14.13 IR 01

Report Date:
20-Aug-13 15:54

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: Greenwich HS - Greenwich, CT
Project #: 60225155.MISA0600

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB75141-01	AOC-6-2-BOT1(5)-1	Soil	16-Aug-13 13:00	16-Aug-13 15:50
SB75141-02	AOC-6-2-BOT2(5)-1	Soil	16-Aug-13 13:02	16-Aug-13 15:50
SB75141-03	AOC-6-2-NSW1(4)-1	Soil	16-Aug-13 13:04	16-Aug-13 15:50
SB75141-04	AOC-6-2-NSW2(4)-1	Soil	16-Aug-13 13:06	16-Aug-13 15:50
SB75141-05	AOC-6-2-SSW1(4)-1	Soil	16-Aug-13 13:08	16-Aug-13 15:50
SB75141-06	AOC-6-2-SSW2(4)-1	Soil	16-Aug-13 13:10	16-Aug-13 15:50
SB75141-07	AOC-6-2-ESW1(4)-1	Soil	16-Aug-13 13:12	16-Aug-13 15:50
SB75141-08	AOC-6-2-ESW2(4)-1	Soil	16-Aug-13 13:14	16-Aug-13 15:50
SB75141-09	AOC-6-2-WSW1(4)-1	Soil	16-Aug-13 13:16	16-Aug-13 15:50
SB75141-10	AOC-6-2-WSW2(4)-1	Soil	16-Aug-13 13:18	16-Aug-13 15:50

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 16 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: Greenwich HS - Greenwich, CT

Project Number: 60225155.MISA0600

Sampling Date(s):
8/16/2013

Laboratory Sample ID(s):
SB75141-01 through SB75141-10

RCP Methods Used:
SW846 8270D

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/20/2013

CASE NARRATIVE:

The samples were received 0.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8270D

Samples:

S309920-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Benzo (b) fluoranthene (24.8%)
Benzo (g,h,i) perylene (26.4%)
Benzo (k) fluoranthene (33.5%)

This affected the following samples:

AOC-6-2-NSW1(4)-1
AOC-6-2-NSW2(4)-1
AOC-6-2-SSW2(4)-1
AOC-6-2-WSW2(4)-1

SB75141-09 *AOC-6-2-WSW1(4)-1*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	Greenwich HS - Greenwich, CT / 60225155.MISA0600
Work Order:	SB75141
Sample(s) received on:	8/16/2013
Received by:	Vickie Knowles

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☐	☑	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-6-2-BOT1(5)-1	60225155.MISA0600	Soil	16-Aug-13 13:00	16-Aug-13
SB75141-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 174		µg/kg dry	174	44.2	1	SW846 8270D	17-Aug-13	19-Aug-13	MSL	1319821	X
208-96-8	Acenaphthylene	< 174		µg/kg dry	174	48.2	1	"	"	"	"	"	X
120-12-7	Anthracene	< 174		µg/kg dry	174	44.3	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 174		µg/kg dry	174	46.5	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 174		µg/kg dry	174	47.3	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 174		µg/kg dry	174	37.8	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 174		µg/kg dry	174	48.4	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 174		µg/kg dry	174	61.6	1	"	"	"	"	"	X
218-01-9	Chrysene	< 174		µg/kg dry	174	49.0	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 174		µg/kg dry	174	44.9	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 174		µg/kg dry	174	48.6	1	"	"	"	"	"	X
86-73-7	Fluorene	< 174		µg/kg dry	174	48.3	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 174		µg/kg dry	174	48.2	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 174		µg/kg dry	174	51.3	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 174		µg/kg dry	174	49.6	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 174		µg/kg dry	174	48.5	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 174		µg/kg dry	174	46.4	1	"	"	"	"	"	X
129-00-0	Pyrene	< 174		µg/kg dry	174	42.0	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*56*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*87*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**95.7**		%			1	SM2540 G Mod.	19-Aug-13	19-Aug-13	DT	1319875	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-6-2-BOT2(5)-1	60225155.MISA0600	Soil	16-Aug-13 13:02	16-Aug-13
SB75141-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 172		µg/kg dry	172	43.7	1	SW846 8270D	17-Aug-13	19-Aug-13	MSL	1319821	X
208-96-8	Acenaphthylene	< 172		µg/kg dry	172	47.7	1	"	"	"	"	"	X
120-12-7	Anthracene	< 172		µg/kg dry	172	43.8	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 172		µg/kg dry	172	46.0	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 172		µg/kg dry	172	46.8	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 172		µg/kg dry	172	37.4	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 172		µg/kg dry	172	47.8	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 172		µg/kg dry	172	60.9	1	"	"	"	"	"	X
218-01-9	Chrysene	< 172		µg/kg dry	172	48.5	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 172		µg/kg dry	172	44.4	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 172		µg/kg dry	172	48.1	1	"	"	"	"	"	X
86-73-7	Fluorene	< 172		µg/kg dry	172	47.8	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 172		µg/kg dry	172	47.7	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 172		µg/kg dry	172	50.7	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 172		µg/kg dry	172	49.1	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 172		µg/kg dry	172	48.0	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 172		µg/kg dry	172	45.9	1	"	"	"	"	"	X
129-00-0	Pyrene	< 172		µg/kg dry	172	41.6	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*67*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*94*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**95.8**		%			1	SM2540 G Mod.	19-Aug-13	19-Aug-13	DT	1319875	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-6-2-NSW1(4)-1	60225155.MISA0600	Soil	16-Aug-13 13:04	16-Aug-13
SB75141-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	**496**		µg/kg dry	188	47.9	1	SW846 8270D	17-Aug-13	19-Aug-13	JG	1319821	X
208-96-8	Acenaphthylene	< 188		µg/kg dry	188	52.2	1	"	"	"	"	"	X
120-12-7	Anthracene	< 188		µg/kg dry	188	48.0	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**199**		µg/kg dry	188	50.4	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**202**		µg/kg dry	188	51.3	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**195**		µg/kg dry	188	40.9	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 188		µg/kg dry	188	52.4	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 188		µg/kg dry	188	66.7	1	"	"	"	"	"	X
218-01-9	Chrysene	**209**		µg/kg dry	188	53.1	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 188		µg/kg dry	188	48.6	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**356**		µg/kg dry	188	52.6	1	"	"	"	"	"	X
86-73-7	Fluorene	< 188		µg/kg dry	188	52.4	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 188		µg/kg dry	188	52.2	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	**340**		µg/kg dry	188	55.6	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 188		µg/kg dry	188	53.8	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 188		µg/kg dry	188	52.6	1	"	"	"	"	"	X
85-01-8	Phenanthrene	**276**		µg/kg dry	188	50.3	1	"	"	"	"	"	X
129-00-0	Pyrene	**301**		µg/kg dry	188	45.5	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*61*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*76*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.3**		%			1	SM2540 G Mod.	19-Aug-13	19-Aug-13	DT	1319875	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-6-2-NSW2(4)-1	60225155.MISA0600	Soil	16-Aug-13 13:06	16-Aug-13
SB75141-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 195		µg/kg dry	195	49.6	1	SW846 8270D	17-Aug-13	19-Aug-13	JG	1319821	X
208-96-8	Acenaphthylene	< 195		µg/kg dry	195	54.0	1	"	"	"	"	"	X
120-12-7	Anthracene	< 195		µg/kg dry	195	49.7	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 195		µg/kg dry	195	52.2	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 195		µg/kg dry	195	53.1	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 195		µg/kg dry	195	42.4	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 195		µg/kg dry	195	54.2	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 195		µg/kg dry	195	69.1	1	"	"	"	"	"	X
218-01-9	Chrysene	< 195		µg/kg dry	195	55.0	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 195		µg/kg dry	195	50.4	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**268**		µg/kg dry	195	54.5	1	"	"	"	"	"	X
86-73-7	Fluorene	< 195		µg/kg dry	195	54.2	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 195		µg/kg dry	195	54.0	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 195		µg/kg dry	195	57.5	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 195		µg/kg dry	195	55.7	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 195		µg/kg dry	195	54.4	1	"	"	"	"	"	X
85-01-8	Phenanthrene	**203**		µg/kg dry	195	52.0	1	"	"	"	"	"	X
129-00-0	Pyrene	**198**		µg/kg dry	195	47.1	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*48*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*60*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**85.4**		%			1	SM2540 G Mod.	19-Aug-13	19-Aug-13	DT	1319875	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-6-2-SSW1(4)-1	60225155.MISA0600	Soil	16-Aug-13 13:08	16-Aug-13
SB75141-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 174		µg/kg dry	174	44.2	1	SW846 8270D	17-Aug-13	19-Aug-13	MSL	1319821	X
208-96-8	Acenaphthylene	< 174		µg/kg dry	174	48.2	1	"	"	"	"	"	X
120-12-7	Anthracene	< 174		µg/kg dry	174	44.3	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 174		µg/kg dry	174	46.6	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 174		µg/kg dry	174	47.4	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 174		µg/kg dry	174	37.8	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 174		µg/kg dry	174	48.4	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 174		µg/kg dry	174	61.6	1	"	"	"	"	"	X
218-01-9	Chrysene	< 174		µg/kg dry	174	49.1	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 174		µg/kg dry	174	44.9	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 174		µg/kg dry	174	48.6	1	"	"	"	"	"	X
86-73-7	Fluorene	< 174		µg/kg dry	174	48.4	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 174		µg/kg dry	174	48.2	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 174		µg/kg dry	174	51.3	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 174		µg/kg dry	174	49.7	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 174		µg/kg dry	174	48.6	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 174		µg/kg dry	174	46.4	1	"	"	"	"	"	X
129-00-0	Pyrene	< 174		µg/kg dry	174	42.0	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*67*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*90*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**95.2**		%			1	SM2540 G Mod.	19-Aug-13	19-Aug-13	DT	1319875	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-6-2-SSW2(4)-1	60225155.MISA0600	Soil	16-Aug-13 13:10	16-Aug-13
SB75141-06				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 195		µg/kg dry	195	49.6	1	SW846 8270D	17-Aug-13	19-Aug-13	JG	1319821	X
208-96-8	Acenaphthylene	< 195		µg/kg dry	195	54.1	1	"	"	"	"	"	X
120-12-7	Anthracene	< 195		µg/kg dry	195	49.7	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 195		µg/kg dry	195	52.2	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 195		µg/kg dry	195	53.1	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 195		µg/kg dry	195	42.4	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 195		µg/kg dry	195	54.3	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 195		µg/kg dry	195	69.1	1	"	"	"	"	"	X
218-01-9	Chrysene	< 195		µg/kg dry	195	55.0	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 195		µg/kg dry	195	50.4	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 195		µg/kg dry	195	54.5	1	"	"	"	"	"	X
86-73-7	Fluorene	< 195		µg/kg dry	195	54.2	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 195		µg/kg dry	195	54.1	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 195		µg/kg dry	195	57.6	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 195		µg/kg dry	195	55.7	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 195		µg/kg dry	195	54.5	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 195		µg/kg dry	195	52.1	1	"	"	"	"	"	X
129-00-0	Pyrene	< 195		µg/kg dry	195	47.1	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*67*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*49*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**85.2**		%			1	SM2540 G Mod.	19-Aug-13	19-Aug-13	DT	1319875	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-6-2-ESW1(4)-1	60225155.MISA0600	Soil	16-Aug-13 13:12	16-Aug-13
SB75141-07				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 180		µg/kg dry	180	45.7	1	SW846 8270D	17-Aug-13	19-Aug-13	MSL	1319821	X
208-96-8	Acenaphthylene	< 180		µg/kg dry	180	49.8	1	"	"	"	"	"	X
120-12-7	Anthracene	< 180		µg/kg dry	180	45.8	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 180		µg/kg dry	180	48.1	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 180		µg/kg dry	180	48.9	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 180		µg/kg dry	180	39.0	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 180		µg/kg dry	180	50.0	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 180		µg/kg dry	180	63.6	1	"	"	"	"	"	X
218-01-9	Chrysene	< 180		µg/kg dry	180	50.7	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 180		µg/kg dry	180	46.4	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 180		µg/kg dry	180	50.2	1	"	"	"	"	"	X
86-73-7	Fluorene	< 180		µg/kg dry	180	50.0	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 180		µg/kg dry	180	49.8	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 180		µg/kg dry	180	53.0	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 180		µg/kg dry	180	51.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 180		µg/kg dry	180	50.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 180		µg/kg dry	180	47.9	1	"	"	"	"	"	X
129-00-0	Pyrene	< 180		µg/kg dry	180	43.4	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*71*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*83*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.6**		%			1	SM2540 G Mod.	19-Aug-13	19-Aug-13	DT	1319875	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-6-2-ESW2(4)-1	60225155.MISA0600	Soil	16-Aug-13 13:14	16-Aug-13
SB75141-08				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 184		µg/kg dry	184	46.9	1	SW846 8270D	17-Aug-13	19-Aug-13	MSL	1319821	X
208-96-8	Acenaphthylene	< 184		µg/kg dry	184	51.1	1	"	"	"	"	"	X
120-12-7	Anthracene	< 184		µg/kg dry	184	47.0	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 184		µg/kg dry	184	49.4	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 184		µg/kg dry	184	50.2	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 184		µg/kg dry	184	40.1	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 184		µg/kg dry	184	51.3	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 184		µg/kg dry	184	65.3	1	"	"	"	"	"	X
218-01-9	Chrysene	< 184		µg/kg dry	184	52.0	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 184		µg/kg dry	184	47.6	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 184		µg/kg dry	184	51.5	1	"	"	"	"	"	X
86-73-7	Fluorene	< 184		µg/kg dry	184	51.3	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 184		µg/kg dry	184	51.1	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 184		µg/kg dry	184	54.4	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 184		µg/kg dry	184	52.6	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 184		µg/kg dry	184	51.5	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 184		µg/kg dry	184	49.2	1	"	"	"	"	"	X
129-00-0	Pyrene	< 184		µg/kg dry	184	44.6	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*61*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*76*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.0**		%			1	SM2540 G Mod.	19-Aug-13	19-Aug-13	DT	1319875	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-6-2-WSW1(4)-1	60225155.MISA0600	Soil	16-Aug-13 13:16	16-Aug-13
SB75141-09				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			R05										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 370	D	µg/kg dry	370	94.1	2	SW846 8270D	17-Aug-13	20-Aug-13	JG	1319821	X
208-96-8	Acenaphthylene	< 370	D	µg/kg dry	370	103	2	"	"	"	"	"	X
120-12-7	Anthracene	< 370	D	µg/kg dry	370	94.3	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 370	D	µg/kg dry	370	99.1	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 370	D	µg/kg dry	370	101	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 370	D	µg/kg dry	370	80.4	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 370	D	µg/kg dry	370	103	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 370	D	µg/kg dry	370	131	2	"	"	"	"	"	X
218-01-9	Chrysene	< 370	D	µg/kg dry	370	104	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 370	D	µg/kg dry	370	95.6	2	"	"	"	"	"	X
206-44-0	Fluoranthene	< 370	D	µg/kg dry	370	103	2	"	"	"	"	"	X
86-73-7	Fluorene	< 370	D	µg/kg dry	370	103	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 370	D	µg/kg dry	370	103	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 370	D	µg/kg dry	370	109	2	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 370	D	µg/kg dry	370	106	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 370	D	µg/kg dry	370	103	2	"	"	"	"	"	X
85-01-8	Phenanthrene	< 370	D	µg/kg dry	370	98.8	2	"	"	"	"	"	X
129-00-0	Pyrene	< 370	D	µg/kg dry	370	89.5	2	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*48*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*50*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.2**		%			1	SM2540 G Mod.	19-Aug-13	19-Aug-13	DT	1319875	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-6-2-WSW2(4)-1	60225155.MISA0600	Soil	16-Aug-13 13:18	16-Aug-13
SB75141-10				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 187		µg/kg dry	187	47.4	1	SW846 8270D	17-Aug-13	19-Aug-13	JG	1319821	X
208-96-8	Acenaphthylene	< 187		µg/kg dry	187	51.7	1	"	"	"	"	"	X
120-12-7	Anthracene	< 187		µg/kg dry	187	47.6	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 187		µg/kg dry	187	49.9	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 187		µg/kg dry	187	50.8	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 187		µg/kg dry	187	40.5	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 187		µg/kg dry	187	51.9	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 187		µg/kg dry	187	66.1	1	"	"	"	"	"	X
218-01-9	Chrysene	< 187		µg/kg dry	187	52.6	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 187		µg/kg dry	187	48.2	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**336**		µg/kg dry	187	52.1	1	"	"	"	"	"	X
86-73-7	Fluorene	< 187		µg/kg dry	187	51.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 187		µg/kg dry	187	51.7	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 187		µg/kg dry	187	55.1	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 187		µg/kg dry	187	53.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 187		µg/kg dry	187	52.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	**221**		µg/kg dry	187	49.8	1	"	"	"	"	"	X
129-00-0	Pyrene	**262**		µg/kg dry	187	45.1	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*59*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*61*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.2**		%			1	SM2540 G Mod.	19-Aug-13	19-Aug-13	DT	1319875	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319821 - SW846 3545A										
Blank (1319821-BLK1)						Prepared: 17-Aug-13 Analyzed: 19-Aug-13				
Acenaphthene	< 167		µg/kg wet	167						
Acenaphthylene	< 167		µg/kg wet	167						
Anthracene	< 167		µg/kg wet	167						
Benzo (a) anthracene	< 167		µg/kg wet	167						
Benzo (a) pyrene	< 167		µg/kg wet	167						
Benzo (b) fluoranthene	< 167		µg/kg wet	167						
Benzo (g,h,i) perylene	< 167		µg/kg wet	167						
Benzo (k) fluoranthene	< 167		µg/kg wet	167						
Chrysene	< 167		µg/kg wet	167						
Dibenzo (a,h) anthracene	< 167		µg/kg wet	167						
Fluoranthene	< 167		µg/kg wet	167						
Fluorene	< 167		µg/kg wet	167						
Indeno (1,2,3-cd) pyrene	< 167		µg/kg wet	167						
1-Methylnaphthalene	< 167		µg/kg wet	167						
2-Methylnaphthalene	< 167		µg/kg wet	167						
Naphthalene	< 167		µg/kg wet	167						
Phenanthrene	< 167		µg/kg wet	167						
Pyrene	< 167		µg/kg wet	167						
Surrogate: 2-Fluorobiphenyl	*1440*		µg/kg wet		*1670*		*87*	*30-130*		
Surrogate: Terphenyl-dl4	*1900*		µg/kg wet		*1670*		*114*	*30-130*		
LCS (1319821-BS1)						Prepared: 17-Aug-13 Analyzed: 19-Aug-13				
Acenaphthene	**1870**		µg/kg wet	167	1670		112	40-140		
Acenaphthylene	**1790**		µg/kg wet	167	1670		107	40-140		
Anthracene	**1580**		µg/kg wet	167	1670		95	40-140		
Benzo (a) anthracene	**1620**		µg/kg wet	167	1670		97	40-140		
Benzo (a) pyrene	**1760**		µg/kg wet	167	1670		105	40-140		
Benzo (b) fluoranthene	**1990**		µg/kg wet	167	1670		120	40-140		
Benzo (g,h,i) perylene	**1670**		µg/kg wet	167	1670		100	40-140		
Benzo (k) fluoranthene	**2170**		µg/kg wet	167	1670		130	40-140		
Chrysene	**1780**		µg/kg wet	167	1670		107	40-140		
Dibenzo (a,h) anthracene	**1890**		µg/kg wet	167	1670		113	40-140		
Fluoranthene	**1650**		µg/kg wet	167	1670		99	40-140		
Fluorene	**1840**		µg/kg wet	167	1670		110	40-140		
Indeno (1,2,3-cd) pyrene	**1850**		µg/kg wet	167	1670		111	40-140		
1-Methylnaphthalene	**1580**		µg/kg wet	167	1670		95	40-140		
2-Methylnaphthalene	**1950**		µg/kg wet	167	1670		117	40-140		
Naphthalene	**1650**		µg/kg wet	167	1670		99	40-140		
Phenanthrene	**1700**		µg/kg wet	167	1670		102	40-140		
Pyrene	**1780**		µg/kg wet	167	1670		107	40-140		
Surrogate: 2-Fluorobiphenyl	*1610*		µg/kg wet		*1670*		*97*	*30-130*		
Surrogate: Terphenyl-dl4	*1770*		µg/kg wet		*1670*		*106*	*30-130*		

Notes and Definitions

D	Data reported from a dilution
R05	Elevated Reporting Limits due to the presence of high levels of non-target analytes.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Nicole Leja
Rebecca Merz

SB75141 ✓ GM

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 48 hr
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Malcolm Beeler
560 Enterprise Dr.
Suite 1A
Rocky Hill CT 06067
Telephone #:
Project Mgr. M. Beeler / M. Doherty

Invoice To: Mike Doherty
Same address
P.O. No.: RQN:

Project No.: 60225155.MISA0000
Site Name: Greenwich HS MISA
Location: Greenwich State: CT
Sampler(s): J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10= ICe 11=

List preservative code below: 10

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	PAHs
75141-01	AOC-6-2-BOT1(5)-1	8-16-13	1300	G	SO		1			X
02	AOC-6-2-BOT2(5)-1	8-16-13	1302	G	SO		1			X
03	AOC-6-2-NSW1(4)-1	8-16-13	1304	G	SO		1			X
04	AOC-6-2-NSW2(4)-1	8-16-13	1306	G	SO		1			X
05	AOC-6-2-SSW1(4)-1	8-16-13	1308	G	SO		1			X
06	AOC-6-2-SSW2(4)-1	8-16-13	1310	G	SO		1			X
07	AOC-6-2-ESW1(4)-1	8-16-13	1312	G	SO		1			X
08	AOC-6-2-ESW2(4)-1	8-16-13	1314	G	SO		1			X
09	AOC-6-2-WSW1(4)-1	8-16-13	1316	G	SO		1			X
10	AOC-6-2-WSW2(4)-1	8-16-13	1318	G	SO		1			X

Containers: # of VOA Vials | # of Amber Glass | # of Clear Glass | # of Plastic
Analyses: PAHs

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER V*
☐ Other

State-specific reporting standards:
All samples checked only for PAHs per client request GM 8/16

1,3-1,0,3IR01

CT RCP per project History.

Relinquished by:	Received by:	Date:	Time:	Temp°C
	Ten Jaster	8-16-13	1330	
		8/16/13	1550	

☒ EDD Format Equis
☐ E-mail to malcolm.beeler@AECOM.com
julie.williams2@AECOM.com

☐ Ambient ☒ Iced ☐ Refrigerated ☐ Fridge temp ___ °C ☐ Freezer temp ___ °C

Report Date:
20-Aug-13 14:01

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: Greenwich HS - Greenwich, CT
Project #: 60225155.MISA0600

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB75142-01	AOC-2C-WBS02(4)-1	Soil	16-Aug-13 12:30	16-Aug-13 15:50

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 9 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: Greenwich HS - Greenwich, CT

Project Number: 60225155.MISA0600

Sampling Date(s):
8/16/2013

Laboratory Sample ID(s):
SB75142-01

RCP Methods Used:
SW846 8082A

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/20/2013

CASE NARRATIVE:

The samples were received 0.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Spikes:

1319812-MS1 *Source: SB75142-01*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016
Aroclor-1016 [2C]

1319812-MSD1 *Source: SB75142-01*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016
Aroclor-1016 [2C]

Duplicates:

1319812-DUP1 *Source: SB75142-01*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Samples:

SW846 8082A

Samples:

SB75142-01	*AOC-2C-WBS02(4)-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	Greenwich HS - Greenwich, CT / 60225155.MISA0600
Work Order:	SB75142
Sample(s) received on:	8/16/2013
Received by:	Vickie Knowles

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-WBS02(4)-1 SB75142-01	60225155.MISA0600	Soil	16-Aug-13 12:30	16-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			GS1										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 212	D	µg/kg dry	212	158	10	SW846 8082A	16-Aug-13	20-Aug-13	IMR	1319812	X
11104-28-2	Aroclor-1221	< 212	D	µg/kg dry	212	191	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 212	D	µg/kg dry	212	136	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 212	D	µg/kg dry	212	128	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**7,690**	D	µg/kg dry	212	110	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 212	D	µg/kg dry	212	177	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	< 212	D	µg/kg dry	212	106	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 212	D	µg/kg dry	212	198	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 212	D	µg/kg dry	212	87.5	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*150*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.9**		%			1	SM2540 G Mod.	19-Aug-13	19-Aug-13	DT	1319875	

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319812 - SW846 3540C										
Blank (1319812-BLK1)					Prepared: 16-Aug-13 Analyzed: 19-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
LCS (1319812-BS1)					Prepared: 16-Aug-13 Analyzed: 19-Aug-13					
Aroclor-1016	**243**		µg/kg wet	20.0	250		97	40-140		
Aroclor-1016 [2C]	**252**		µg/kg wet	20.0	250		101	40-140		
Aroclor-1260	**259**		µg/kg wet	20.0	250		104	40-140		
Aroclor-1260 [2C]	**261**		µg/kg wet	20.0	250		104	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
LCS Dup (1319812-BSD1)					Prepared: 16-Aug-13 Analyzed: 19-Aug-13					
Aroclor-1016	**239**		µg/kg wet	20.0	250		96	40-140	2	30
Aroclor-1016 [2C]	**251**		µg/kg wet	20.0	250		100	40-140	0.4	30
Aroclor-1260	**216**		µg/kg wet	20.0	250		86	40-140	18	30
Aroclor-1260 [2C]	**241**		µg/kg wet	20.0	250		96	40-140	8	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Duplicate (1319812-DUP1)		GS1	**Source: SB75142-01**		Prepared: 16-Aug-13 Analyzed: 20-Aug-13					
Aroclor-1016	< 208	D	µg/kg dry	208		BRL				30
Aroclor-1016 [2C]	< 208	D	µg/kg dry	208		BRL				30
Aroclor-1221	< 208	D	µg/kg dry	208		BRL				30
Aroclor-1221 [2C]	< 208	D	µg/kg dry	208		BRL				30
Aroclor-1232	< 208	D	µg/kg dry	208		BRL				30
Aroclor-1232 [2C]	< 208	D	µg/kg dry	208		BRL				30
Aroclor-1242	< 208	D	µg/kg dry	208		BRL				30
Aroclor-1242 [2C]	< 208	D	µg/kg dry	208		BRL				30
Aroclor-1248	**7300**	D	µg/kg dry	208		7690			5	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319812 - SW846 3540C										
Duplicate (1319812-DUP1)		GS1	**Source: SB75142-01**			Prepared: 16-Aug-13 Analyzed: 20-Aug-13				
Aroclor-1248 [2C]	**6730**	D	µg/kg dry	208		7030			4	30
Aroclor-1254	< 208	D	µg/kg dry	208		BRL				30
Aroclor-1254 [2C]	< 208	D	µg/kg dry	208		BRL				30
Aroclor-1260	**135**	J,D	µg/kg dry	208		138			2	30
Aroclor-1260 [2C]	**166**	J,D	µg/kg dry	208		159			4	30
Aroclor-1262	< 208	D	µg/kg dry	208		BRL				30
Aroclor-1262 [2C]	< 208	D	µg/kg dry	208		BRL				30
Aroclor-1268	< 208	D	µg/kg dry	208		BRL				30
Aroclor-1268 [2C]	< 208	D	µg/kg dry	208		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.8*		µg/kg dry		*20.8*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.8*		µg/kg dry		*20.8*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*31.2*		µg/kg dry		*20.8*		*150*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*31.2*		µg/kg dry		*20.8*		*150*	*30-150*		
Matrix Spike (1319812-MS1)		GS1	**Source: SB75142-01**			Prepared: 16-Aug-13 Analyzed: 20-Aug-13				
Aroclor-1016	**6020**	QM1, D	µg/kg dry	217	272	BRL	2220	40-140		
Aroclor-1016 [2C]	**4990**	QM1, D	µg/kg dry	217	272	BRL	1840	40-140		
Aroclor-1260	**337**	D	µg/kg dry	217	272	138	73	40-140		
Aroclor-1260 [2C]	**381**	D	µg/kg dry	217	272	159	81	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.7*		µg/kg dry		*21.7*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.7*		µg/kg dry		*21.7*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*32.6*		µg/kg dry		*21.7*		*150*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*32.6*		µg/kg dry		*21.7*		*150*	*30-150*		
Matrix Spike Dup (1319812-MSD1)		GS1	**Source: SB75142-01**			Prepared: 16-Aug-13 Analyzed: 20-Aug-13				
Aroclor-1016	**4840**	QM1, D	µg/kg dry	211	264	BRL	1830	40-140	19	30
Aroclor-1016 [2C]	**5410**	QM1, D	µg/kg dry	211	264	BRL	2050	40-140	11	30
Aroclor-1260	**338**	D	µg/kg dry	211	264	138	76	40-140	3	30
Aroclor-1260 [2C]	**370**	D	µg/kg dry	211	264	159	80	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*31.7*		µg/kg dry		*21.1*		*150*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*31.7*		µg/kg dry		*21.1*		*150*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*31.7*		µg/kg dry		*21.1*		*150*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*31.7*		µg/kg dry		*21.1*		*150*	*30-150*		

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
QM1	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk
Rebecca Merz

SBT5142

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 48 hr
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Malcolm Beeler
500 Enterprise Dr.
Suite 1A
Rocky Hill, CT 06067
Telephone #:
Project Mgr.

Invoice To: Mike Doherty
Same address
P.O. No.: RQN:

Project No.: 60225155.MISA0600
Site Name: Greenwich HS MISA
Location: Greenwich CT State:
Sampler(s): J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10= 11=

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs (Soxhlet)
75142-01	AOC-2C-WBS02(A)-1	8-16-13	1230	G	SO		1			1

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER V*
☐ Other

State-specific reporting standards:
RCP per proj history
8/16/13 JB

13-1/10.3 IR 01

Relinquished by:	Received by:	Date:	Time:	Temp°C
	Terri Justice	8/16/13	1330	
		8/16/13	1550	

☒ EDD Format EQUIS
☒ E-mail to malcolm.beeler@AECOM.com
julie.williams2@AECOM.com

☐ Ambient ☒ Iced ☐ Refrigerated ☐ Fridge temp ___ °C ☐ Freezer temp ___ °C

Report Date:
21-Aug-13 16:26

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: GHS- MISA - Greenwich, CT
Project #: 60225155.MISA0600

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB75252-01	AOC-2C-2-SS1-1	Soil	19-Aug-13 12:32	19-Aug-13 16:20
SB75252-02	AOC-2C-2-SS2-1	Soil	19-Aug-13 12:34	19-Aug-13 16:20
SB75252-03	AOC-2C-2-SS3-1	Soil	19-Aug-13 12:36	19-Aug-13 16:20

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 9 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: GHS- MISA - Greenwich, CT

Project Number: 60225155.MISA0600

Sampling Date(s):
8/19/2013

Laboratory Sample ID(s):
SB75252-01 through SB75252-03

RCP Methods Used:
SW846 8082A

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/21/2013

CASE NARRATIVE:

The samples were received 0.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	GHS- MISA - Greenwich, CT / 60225155.MISA0600
Work Order:	SB75252
Sample(s) received on:	8/19/2013
Received by:	Tanya Krivolenko

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-2-SS1-1 SB75252-01	60225155.MISA0600	Soil	19-Aug-13 12:32	19-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.5		µg/kg dry	21.5	16.0	1	SW846 8082A	19-Aug-13	21-Aug-13	IMR	1319935	X
11104-28-2	Aroclor-1221	< 21.5		µg/kg dry	21.5	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.5		µg/kg dry	21.5	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.5		µg/kg dry	21.5	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.5		µg/kg dry	21.5	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.5		µg/kg dry	21.5	17.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.5		µg/kg dry	21.5	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.5		µg/kg dry	21.5	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.5		µg/kg dry	21.5	8.85	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.1**		%			1	SM2540 G Mod.	20-Aug-13	20-Aug-13	DT	1320005	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-2-SS2-1 SB75252-02	60225155.MISA0600	Soil	19-Aug-13 12:34	19-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.5		µg/kg dry	21.5	16.1	1	SW846 8082A	19-Aug-13	21-Aug-13	IMR	1319935	X
11104-28-2	Aroclor-1221	< 21.5		µg/kg dry	21.5	19.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.5		µg/kg dry	21.5	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.5		µg/kg dry	21.5	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.5		µg/kg dry	21.5	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	**42.0**		µg/kg dry	21.5	12.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.5		µg/kg dry	21.5	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.5		µg/kg dry	21.5	20.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.5		µg/kg dry	21.5	8.88	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**87.1**		%			1	SM2540 G Mod.	20-Aug-13	20-Aug-13	DT	1320005	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-2C-2-SS3-1	60225155.MISA0600	Soil	19-Aug-13 12:36	19-Aug-13
SB75252-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 23.1		µg/kg dry	23.1	17.3	1	SW846 8082A	19-Aug-13	21-Aug-13	IMR	1319935	X
11104-28-2	Aroclor-1221	< 23.1		µg/kg dry	23.1	20.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.1		µg/kg dry	23.1	14.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.1		µg/kg dry	23.1	13.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 23.1		µg/kg dry	23.1	12.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.1		µg/kg dry	23.1	19.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.1		µg/kg dry	23.1	14.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.1		µg/kg dry	23.1	21.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.1		µg/kg dry	23.1	9.54	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**83.0**		%			1	SM2540 G Mod.	20-Aug-13	20-Aug-13	DT	1320005	

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319935 - SW846 3540C										
Blank (1319935-BLK1)					Prepared: 19-Aug-13 Analyzed: 20-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
LCS (1319935-BS1)					Prepared: 19-Aug-13 Analyzed: 20-Aug-13					
Aroclor-1016	**239**		µg/kg wet	20.0	250		96	40-140		
Aroclor-1016 [2C]	**241**		µg/kg wet	20.0	250		96	40-140		
Aroclor-1260	**216**		µg/kg wet	20.0	250		86	40-140		
Aroclor-1260 [2C]	**223**		µg/kg wet	20.0	250		89	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*25.0*		µg/kg wet		*20.0*		*125*	*30-200*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*23.0*		µg/kg wet		*20.0*		*115*	*30-200*		
LCS Dup (1319935-BSD1)					Prepared: 19-Aug-13 Analyzed: 20-Aug-13					
Aroclor-1016	**236**		µg/kg wet	20.0	250		94	40-140	1	30
Aroclor-1016 [2C]	**238**		µg/kg wet	20.0	250		95	40-140	1	30
Aroclor-1260	**212**		µg/kg wet	20.0	250		85	40-140	2	30
Aroclor-1260 [2C]	**223**		µg/kg wet	20.0	250		89	40-140	0	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		

Notes and Definitions

dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Nicole Leja

SB 752520K

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 48 hr
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Malcolm Beeler
500 Enterprise Dr.
Suite 1A
Rocky Hill CT 06067
Telephone #:
Project Mgr. M. Beeler

Invoice To: Same

P.O. No.: RQN:

Project No.: 60225155.MISA0600
Site Name: Greenwich HS MISA
Location: Greenwich State: CT
Sampler(s): J. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= 11=

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs (Soxhlet)
75252-01	AOC-2C-2-SS1-1	8/19/13	1232	G	So		1			X
02	AOC-2C-2-SS2-1	8/19/13	1234	G	So		1			X
03	AOC-2C-2-SS3-1	8/19/13	1236	G	So		1			X

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☐ No ☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER V*
☐ Other

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
		8.19.13	1:40	
	I am ok	8/19/13	16:20	

☒ EDD Format equis
☒ E-mail to malcolm.beeler@AECOM.com
matthew.rood@AECOM.com

☐ Ambient ☒ Iced ☐ Refrigerated ☐ Fridge temp ___ °C ☐ Freezer temp ___ °C

1.3/-1/0.3 IR 02

Report Date:
21-Aug-13 16:28

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: GHS- MISA - Greenwich, CT
Project #: 60225155.MISA0600

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB75255-01	AOC-IB-4-SS1-1	Soil	19-Aug-13 12:20	19-Aug-13 16:20
SB75255-02	AOC-IB-4-SS2-1	Soil	19-Aug-13 12:25	19-Aug-13 16:20
SB75255-03	AOC-IB-4-SS3-1	Soil	19-Aug-13 12:30	19-Aug-13 16:20

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 11 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: GHS- MISA - Greenwich, CT

Project Number: 60225155.MISA0600

Sampling Date(s):
8/19/2013

Laboratory Sample ID(s):
SB75255-01 through SB75255-03

RCP Methods Used:
SW846 8082A

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 8/21/2013

CASE NARRATIVE:

The samples were received 0.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Spikes:

1319935-MS1 *Source: SB75255-02*

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016
Aroclor-1016 [2C]

1319935-MSD1 *Source: SB75255-02*

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016
Aroclor-1016 [2C]

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	GHS- MISA - Greenwich, CT / 60225155.MISA0600
Work Order:	SB75255
Sample(s) received on:	8/19/2013
Received by:	Tanya Krivolenko

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-IB-4-SS1-1 SB75255-01	60225155.MISA0600	Soil	19-Aug-13 12:20	19-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 19.7		µg/kg dry	19.7	14.7	1	SW846 8082A	19-Aug-13	21-Aug-13	IMR	1319935	X
11104-28-2	Aroclor-1221	< 19.7		µg/kg dry	19.7	17.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.7		µg/kg dry	19.7	12.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.7		µg/kg dry	19.7	11.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,680**		µg/kg dry	19.7	10.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.7		µg/kg dry	19.7	16.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**28.6**		µg/kg dry	19.7	12.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.7		µg/kg dry	19.7	18.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.7		µg/kg dry	19.7	8.13	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**93.3**		%			1	SM2540 G Mod.	20-Aug-13	20-Aug-13	DT	1320010	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-IB-4-SS2-1 SB75255-02	60225155.MISA0600	Soil	19-Aug-13 12:25	19-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 20.6		µg/kg dry	20.6	15.4	1	SW846 8082A	19-Aug-13	21-Aug-13	IMR	1319935	X
11104-28-2	Aroclor-1221	< 20.6		µg/kg dry	20.6	18.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.6		µg/kg dry	20.6	13.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.6		µg/kg dry	20.6	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,100**		µg/kg dry	20.6	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.6		µg/kg dry	20.6	17.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**44.3**		µg/kg dry	20.6	10.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.6		µg/kg dry	20.6	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.6		µg/kg dry	20.6	8.49	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.2**		%			1	SM2540 G Mod.	20-Aug-13	20-Aug-13	DT	1320010	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AOC-IB-4-SS3-1	60225155.MISA0600	Soil	19-Aug-13 12:30	19-Aug-13
SB75255-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 21.4		µg/kg dry	21.4	16.0	1	SW846 8082A	19-Aug-13	20-Aug-13	BLM	1319898	X
11104-28-2	Aroclor-1221	< 21.4		µg/kg dry	21.4	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.4		µg/kg dry	21.4	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.4		µg/kg dry	21.4	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.4		µg/kg dry	21.4	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.4		µg/kg dry	21.4	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.4		µg/kg dry	21.4	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.83	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*45*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.8**		%			1	SM2540 G Mod.	20-Aug-13	20-Aug-13	DT	1320010	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319898 - SW846 3540C										
Blank (1319898-BLK1)					Prepared: 19-Aug-13 Analyzed: 20-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
LCS (1319898-BS1)					Prepared: 19-Aug-13 Analyzed: 20-Aug-13					
Aroclor-1016	**232**		µg/kg wet	20.0	250		93	40-140		
Aroclor-1016 [2C]	**202**		µg/kg wet	20.0	250		81	40-140		
Aroclor-1260	**209**		µg/kg wet	20.0	250		84	40-140		
Aroclor-1260 [2C]	**207**		µg/kg wet	20.0	250		83	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
LCS Dup (1319898-BSD1)					Prepared: 19-Aug-13 Analyzed: 20-Aug-13					
Aroclor-1016	**237**		µg/kg wet	20.0	250		95	40-140	2	30
Aroclor-1016 [2C]	**202**		µg/kg wet	20.0	250		81	40-140	0	30
Aroclor-1260	**213**		µg/kg wet	20.0	250		85	40-140	2	30
Aroclor-1260 [2C]	**220**		µg/kg wet	20.0	250		88	40-140	6	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Batch 1319935 - SW846 3540C										
Blank (1319935-BLK1)					Prepared: 19-Aug-13 Analyzed: 20-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319935 - SW846 3540C										
Blank (1319935-BLK1)					Prepared: 19-Aug-13 Analyzed: 20-Aug-13					
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
LCS (1319935-BS1)					Prepared: 19-Aug-13 Analyzed: 20-Aug-13					
Aroclor-1016	**239**		µg/kg wet	20.0	250		96	40-140		
Aroclor-1016 [2C]	**241**		µg/kg wet	20.0	250		96	40-140		
Aroclor-1260	**216**		µg/kg wet	20.0	250		86	40-140		
Aroclor-1260 [2C]	**223**		µg/kg wet	20.0	250		89	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*25.0*		µg/kg wet		*20.0*		*125*	*30-200*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*23.0*		µg/kg wet		*20.0*		*115*	*30-200*		
LCS Dup (1319935-BSD1)					Prepared: 19-Aug-13 Analyzed: 20-Aug-13					
Aroclor-1016	**236**		µg/kg wet	20.0	250		94	40-140	1	30
Aroclor-1016 [2C]	**238**		µg/kg wet	20.0	250		95	40-140	1	30
Aroclor-1260	**212**		µg/kg wet	20.0	250		85	40-140	2	30
Aroclor-1260 [2C]	**223**		µg/kg wet	20.0	250		89	40-140	0	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Duplicate (1319935-DUP1)			**Source: SB75255-02**		Prepared: 19-Aug-13 Analyzed: 20-Aug-13					
Aroclor-1016	< 20.8		µg/kg dry	20.8		BRL				30
Aroclor-1016 [2C]	< 20.8		µg/kg dry	20.8		BRL				30
Aroclor-1221	< 20.8		µg/kg dry	20.8		BRL				30
Aroclor-1221 [2C]	< 20.8		µg/kg dry	20.8		BRL				30
Aroclor-1232	< 20.8		µg/kg dry	20.8		BRL				30
Aroclor-1232 [2C]	< 20.8		µg/kg dry	20.8		BRL				30
Aroclor-1242	< 20.8		µg/kg dry	20.8		BRL				30
Aroclor-1242 [2C]	< 20.8		µg/kg dry	20.8		BRL				30
Aroclor-1248	**1140**		µg/kg dry	20.8		1100			4	30
Aroclor-1248 [2C]	**1090**		µg/kg dry	20.8		1030			5	30
Aroclor-1254	< 20.8		µg/kg dry	20.8		BRL				30
Aroclor-1254 [2C]	< 20.8		µg/kg dry	20.8		BRL				30
Aroclor-1260	**45.7**		µg/kg dry	20.8		41.2			10	30
Aroclor-1260 [2C]	**44.7**		µg/kg dry	20.8		44.3			0.9	30
Aroclor-1262	< 20.8		µg/kg dry	20.8		BRL				30
Aroclor-1262 [2C]	< 20.8		µg/kg dry	20.8		BRL				30
Aroclor-1268	< 20.8		µg/kg dry	20.8		BRL				30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1319935 - SW846 3540C										
Duplicate (1319935-DUP1)			**Source: SB75255-02**			Prepared: 19-Aug-13 Analyzed: 20-Aug-13				
Aroclor-1268 [2C]	< 20.8		µg/kg dry	20.8		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*16.6*		µg/kg dry		*20.8*		*80*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*30.1*		µg/kg dry		*20.8*		*145*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.7*		µg/kg dry		*20.8*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.7*		µg/kg dry		*20.8*		*85*	*30-150*		
Matrix Spike (1319935-MS1)			**Source: SB75255-02**			Prepared: 19-Aug-13 Analyzed: 20-Aug-13				
Aroclor-1016	**862**	QM1	µg/kg dry	20.4	256	BRL	337	40-140		
Aroclor-1016 [2C]	**588**	QM1	µg/kg dry	20.4	256	BRL	230	40-140		
Aroclor-1260	**180**		µg/kg dry	20.4	256	41.2	54	40-140		
Aroclor-1260 [2C]	**209**		µg/kg dry	20.4	256	44.3	64	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*16.4*		µg/kg dry		*20.4*		*80*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*16.4*		µg/kg dry		*20.4*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.4*		µg/kg dry		*20.4*		*90*	*30-200*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.4*		µg/kg dry		*20.4*		*90*	*30-200*		
Matrix Spike Dup (1319935-MSD1)			**Source: SB75255-02**			Prepared: 19-Aug-13 Analyzed: 21-Aug-13				
Aroclor-1016	**1170**	QM1	µg/kg dry	21.0	263	BRL	444	40-140	27	30
Aroclor-1016 [2C]	**653**	QM1	µg/kg dry	21.0	263	BRL	248	40-140	8	30
Aroclor-1260	**190**		µg/kg dry	21.0	263	41.2	57	40-140	4	30
Aroclor-1260 [2C]	**224**		µg/kg dry	21.0	263	44.3	68	40-140	6	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*17.9*		µg/kg dry		*21.0*		*85*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*14.7*		µg/kg dry		*21.0*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.9*		µg/kg dry		*21.0*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.9*		µg/kg dry		*21.0*		*90*	*30-150*		

Notes and Definitions

QM1	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk
Nicole Leja

SB 75255OR

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 48 hr
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Malcolm Beeler
500 Enterprise Dr.
Suite 1A
Rocky Hill CT 06067
Telephone #:
Project Mgr. M. Beeler

Invoice To: Same

P.O. No.: RQN:

Project No.: 60225155.MISA0600
Site Name: Greenwich HS MISA
Location: Greenwich State: CT
Sampler(s): J. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= 11=

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs (Soxhlet)
75255-01	AOC-1B-4-SS1-1	8-19-13	1220	G	SO		1			X
02	AOC-1B-4-SS2-1	8-19-13	1225	G	SO		1			X
03	AOC-1B4-SS3-1	8-19-13	1230	G	SO		1			X

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☐ No ☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER V*
☐ Other

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
		8-19-13	1:40	
	Tanya K	8-19-13	16:20	

☒ EDD Format EQUIS
☒ E-mail to malcolm.beeler@AECOM.com
matthew.rood@AECOM.com

☐ Ambient ☐ Iced ☐ Refrigerated ☐ Fridge temp ___ °C ☐ Freezer temp ___ °C

1.3/-1/0.3 IR 02

Report Date:
05-Sep-13 09:09

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: Greenwich HS - Greenwich, CT
Project #: 60225155. MISA0600

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB75843-01	Pipe Bedding-1	Soil	28-Aug-13 11:45	28-Aug-13 16:03

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 9 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: AECOM Environment - Rocky Hill, CT

Project Location: Greenwich HS - Greenwich, CT

Project Number: 60225155. MISA0600

Sampling Date(s):
8/28/2013

Laboratory Sample ID(s):
SB75843-01

RCP Methods Used:
SW846 6010C
SW846 7471B

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

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 9/5/2013

CASE NARRATIVE:

The samples were received 2.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 6010C

Spikes:

1321068-MS1 *Source: SB75843-01*

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

Antimony

1321068-MSD1 *Source: SB75843-01*

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

Antimony

Duplicates:

1321068-DUP1 *Source: SB75843-01*

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.

Barium

SW846 7471B

Duplicates:

1321069-DUP1 *Source: SB75843-01*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Mercury

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	Greenwich HS - Greenwich, CT / 60225155. MISA0600
Work Order:	SB75843
Sample(s) received on:	8/28/2013
Received by:	Vickie Knowles

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Pipe Bedding-1	60225155. MISA0600	Soil	28-Aug-13 11:45	28-Aug-13
SB75843-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 1.55		mg/kg dry	1.55	0.447	1	SW846 6010C	03-Sep-13	04-Sep-13	TBC	1321068	X
7440-38-2	Arsenic	**1.74**		mg/kg dry	1.55	0.677	1	"	"	"	"	"	X
7440-39-3	Barium	**89.9**		mg/kg dry	1.03	0.333	1	"	"	"	"	"	X
7440-41-7	Beryllium	< 0.517		mg/kg dry	0.517	0.156	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.517		mg/kg dry	0.517	0.152	1	"	"	"	"	"	X
7440-47-3	Chromium	**19.3**		mg/kg dry	1.03	0.224	1	"	"	"	"	"	X
7440-50-8	Copper	**13.6**		mg/kg dry	1.03	0.398	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0278		mg/kg dry	0.0278	0.0014	1	SW846 7471B	"	04-Sep-13	JLM	1321069	X
7440-02-0	Nickel	**10.7**		mg/kg dry	1.03	0.300	1	SW846 6010C	"	04-Sep-13	TBC	1321068	X
7439-92-1	Lead	**6.44**		mg/kg dry	1.55	0.572	1	"	"	"	"	"	X
7440-36-0	Antimony	< 5.17		mg/kg dry	5.17	0.954	1	"	"	"	"	"	X
7782-49-2	Selenium	< 1.55		mg/kg dry	1.55	0.445	1	"	"	"	"	"	X
7440-28-0	Thallium	< 3.10		mg/kg dry	3.10	0.877	1	"	"	"	"	"	X
7440-62-2	Vanadium	**24.5**		mg/kg dry	1.55	0.480	1	"	"	"	"	"	X
7440-66-6	Zinc	**38.0**		mg/kg dry	1.03	0.454	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**95.5**		%			1	SM2540 G Mod.	29-Aug-13	29-Aug-13	DT	1320877	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1321068 - SW846 3050B										
Blank (1321068-BLK1)					Prepared: 03-Sep-13 Analyzed: 04-Sep-13					
Antimony	< 4.71		mg/kg wet	4.71						
Silver	< 1.41		mg/kg wet	1.41						
Zinc	< 0.942		mg/kg wet	0.942						
Vanadium	< 1.41		mg/kg wet	1.41						
Selenium	< 1.41		mg/kg wet	1.41						
Lead	< 1.41		mg/kg wet	1.41						
Nickel	< 0.942		mg/kg wet	0.942						
Copper	< 0.942		mg/kg wet	0.942						
Chromium	< 0.942		mg/kg wet	0.942						
Cadmium	< 0.471		mg/kg wet	0.471						
Beryllium	< 0.471		mg/kg wet	0.471						
Arsenic	< 1.41		mg/kg wet	1.41						
Thallium	< 2.82		mg/kg wet	2.82						
Barium	< 0.942		mg/kg wet	0.942						
Duplicate (1321068-DUP1)			**Source: SB75843-01**		Prepared: 03-Sep-13 Analyzed: 04-Sep-13					
Selenium	< 1.53		mg/kg dry	1.53		BRL				20
Nickel	**12.1**		mg/kg dry	1.02		10.7			12	20
Zinc	**42.2**		mg/kg dry	1.02		38.0			10	20
Thallium	< 3.05		mg/kg dry	3.05		BRL				20
Antimony	< 5.09		mg/kg dry	5.09		BRL				20
Lead	**6.87**		mg/kg dry	1.53		6.44			7	20
Chromium	**22.5**		mg/kg dry	1.02		19.3			15	20
Cadmium	< 0.509		mg/kg dry	0.509		BRL				20
Beryllium	**0.409**	J	mg/kg dry	0.509		0.395			3	20
Silver	< 1.53		mg/kg dry	1.53		BRL				20
Arsenic	**2.12**		mg/kg dry	1.53		1.74			19	20
Vanadium	**26.8**		mg/kg dry	1.53		24.5			9	20
Copper	**11.3**		mg/kg dry	1.02		13.6			19	20
Barium	**122**	QR6	mg/kg dry	1.02		89.9			30	20
Matrix Spike (1321068-MS1)			**Source: SB75843-01**		Prepared: 03-Sep-13 Analyzed: 04-Sep-13					
Copper	**124**		mg/kg dry	0.944	118	13.6	94	75-125		
Zinc	**137**		mg/kg dry	0.944	118	38.0	84	75-125		
Vanadium	**131**		mg/kg dry	1.42	118	24.5	90	75-125		
Thallium	**118**		mg/kg dry	2.83	118	BRL	100	75-125		
Selenium	**99.1**		mg/kg dry	1.42	118	BRL	84	75-125		
Antimony	**72.5**	QM8	mg/kg dry	4.72	118	BRL	61	75-125		
Nickel	**106**		mg/kg dry	0.944	118	10.7	81	75-125		
Cadmium	**99.2**		mg/kg dry	0.472	118	BRL	84	75-125		
Beryllium	**104**		mg/kg dry	0.472	118	0.395	88	75-125		
Arsenic	**104**		mg/kg dry	1.42	118	1.74	87	75-125		
Silver	**97.9**		mg/kg dry	1.42	118	BRL	83	75-125		
Chromium	**125**		mg/kg dry	0.944	118	19.3	90	75-125		
Lead	**103**		mg/kg dry	1.42	118	6.44	82	75-125		
Barium	**201**		mg/kg dry	0.944	118	89.9	94	75-125		
Matrix Spike Dup (1321068-MSD1)			**Source: SB75843-01**		Prepared: 03-Sep-13 Analyzed: 04-Sep-13					
Silver	**102**		mg/kg dry	1.49	124	BRL	83	75-125	5	20
Selenium	**104**		mg/kg dry	1.49	124	BRL	84	75-125	5	20
Nickel	**110**		mg/kg dry	0.991	124	10.7	80	75-125	4	20
Copper	**129**		mg/kg dry	0.991	124	13.6	93	75-125	3	20
Chromium	**131**		mg/kg dry	0.991	124	19.3	90	75-125	5	20
Cadmium	**104**		mg/kg dry	0.495	124	BRL	84	75-125	5	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1321068 - SW846 3050B										
Matrix Spike Dup (1321068-MSD1)			**Source: SB75843-01**			Prepared: 03-Sep-13		Analyzed: 04-Sep-13		
Arsenic	**109**		mg/kg dry	1.49	124	1.74	86	75-125	5	20
Antimony	**77.8**	QM8	mg/kg dry	4.95	124	BRL	63	75-125	7	20
Beryllium	**108**		mg/kg dry	0.495	124	0.395	87	75-125	4	20
Thallium	**123**		mg/kg dry	2.97	124	BRL	99	75-125	4	20
Vanadium	**135**		mg/kg dry	1.49	124	24.5	89	75-125	3	20
Zinc	**140**		mg/kg dry	0.991	124	38.0	83	75-125	2	20
Lead	**108**		mg/kg dry	1.49	124	6.44	82	75-125	5	20
Barium	**217**		mg/kg dry	0.991	124	89.9	103	75-125	8	20
Post Spike (1321068-PS1)			**Source: SB75843-01**			Prepared: 03-Sep-13		Analyzed: 04-Sep-13		
Nickel	**118**		mg/kg dry	1.03	129	10.7	83	80-120		
Zinc	**146**		mg/kg dry	1.03	129	38.0	83	80-120		
Vanadium	**138**		mg/kg dry	1.55	129	24.5	88	80-120		
Thallium	**128**		mg/kg dry	3.10	129	BRL	99	80-120		
Selenium	**113**		mg/kg dry	1.55	129	BRL	87	80-120		
Lead	**118**		mg/kg dry	1.55	129	6.44	86	80-120		
Copper	**136**		mg/kg dry	1.03	129	13.6	95	80-120		
Chromium	**135**		mg/kg dry	1.03	129	19.3	89	80-120		
Cadmium	**115**		mg/kg dry	0.517	129	BRL	89	80-120		
Beryllium	**113**		mg/kg dry	0.517	129	0.395	87	80-120		
Arsenic	**118**		mg/kg dry	1.55	129	1.74	90	80-120		
Antimony	**113**		mg/kg dry	5.17	129	BRL	87	80-120		
Barium	**198**		mg/kg dry	1.03	129	89.9	84	80-120		
Reference (1321068-SRM1)						Prepared: 03-Sep-13		Analyzed: 04-Sep-13		
Nickel	**72.1**		mg/kg wet	1.00	78.4		92	82.35-117.64		
Lead	**54.4**		mg/kg wet	1.50	58.9		92	81.83-119.13		
Zinc	**75.4**		mg/kg wet	1.00	82.5		91	80.74-119.25		
Vanadium	**49.0**		mg/kg wet	1.50	50.0		98	77.04-122.95		
Thallium	**89.3**		mg/kg wet	3.00	89.2		100	78.73-121.84		
Selenium	**70.8**		mg/kg wet	1.50	76.9		92	77.73-122.67		
Chromium	**68.3**		mg/kg wet	1.00	69.7		98	80.14-120.9		
Cadmium	**86.9**		mg/kg wet	0.500	93.3		93	81.87-118.13		
Beryllium	**36.3**		mg/kg wet	0.500	37.0		98	82.16-117.7		
Arsenic	**47.3**		mg/kg wet	1.50	51.0		93	80.82-119.47		
Silver	**18.2**		mg/kg wet	1.50	20.7		88	75-124.75		
Copper	**51.5**		mg/kg wet	1.00	52.3		99	81.1-118.62		
Antimony	**29.9**		mg/kg wet	5.00	45.2		66	25-231.29		
Barium	**152**		mg/kg wet	1.00	159		96	83.22-116.77		
Reference (1321068-SRM2)						Prepared: 03-Sep-13		Analyzed: 04-Sep-13		
Chromium	**68.0**		mg/kg wet	1.00	70.3		97	80.14-120.9		
Zinc	**75.4**		mg/kg wet	1.00	83.2		91	80.74-119.25		
Vanadium	**48.4**		mg/kg wet	1.50	50.4		96	77.04-122.95		

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1321068 - SW846 3050B										
Reference (1321068-SRM2)						Prepared: 03-Sep-13 Analyzed: 04-Sep-13				
Thallium	**90.3**		mg/kg wet	3.00	89.9		100	78.73-121.84		
Selenium	**70.6**		mg/kg wet	1.50	77.5		91	77.73-122.67		
Antimony	**30.9**		mg/kg wet	5.00	45.6		68	25-231.29		
Lead	**53.8**		mg/kg wet	1.50	59.4		91	81.83-119.13		
Copper	**51.4**		mg/kg wet	1.00	52.7		97	81.1-118.62		
Cadmium	**87.0**		mg/kg wet	0.500	94.1		92	81.87-118.13		
Beryllium	**36.4**		mg/kg wet	0.500	37.4		97	82.16-117.7		
Arsenic	**47.8**		mg/kg wet	1.50	51.5		93	80.82-119.47		
Silver	**18.3**		mg/kg wet	1.50	20.9		88	75-124.75		
Nickel	**71.9**		mg/kg wet	1.00	79.1		91	82.35-117.64		
Barium	**152**		mg/kg wet	1.00	160		95	83.22-116.77		
Batch 1321069 - EPA200/SW7000 Series										
Blank (1321069-BLK1)						Prepared: 03-Sep-13 Analyzed: 04-Sep-13				
Mercury	< 0.0261		mg/kg wet	0.0261						
Duplicate (1321069-DUP1)			**Source: SB75843-01**			Prepared: 03-Sep-13 Analyzed: 04-Sep-13				
Mercury	**0.0189**	J,QR8	mg/kg dry	0.0289		0.0042			128	20
Matrix Spike (1321069-MS1)			**Source: SB75843-01**			Prepared: 03-Sep-13 Analyzed: 04-Sep-13				
Mercury	**0.251**		mg/kg dry	0.0299	0.207	0.0042	119	75-125		
Matrix Spike Dup (1321069-MSD1)			**Source: SB75843-01**			Prepared: 03-Sep-13 Analyzed: 04-Sep-13				
Mercury	**0.249**		mg/kg dry	0.0295	0.205	0.0042	119	75-125	0.9	20
Post Spike (1321069-PS1)			**Source: SB75843-01**			Prepared: 03-Sep-13 Analyzed: 04-Sep-13				
Mercury	**0.233**		mg/kg dry	0.0278	0.193	0.0042	119	80-120		
Reference (1321069-SRM1)						Prepared: 03-Sep-13 Analyzed: 04-Sep-13				
Mercury	**8.20**	D	mg/kg wet	0.600	6.67		123	69.34-130.15		

Notes and Definitions

D	Data reported from a dilution
QM8	The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.
QR6	The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.
QR8	Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Nicole Leja

SB75843 :H

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling: 5 day.
☒ Standard TAT - ~~7 to 10~~ business days
☐ Rush TAT - Date Needed: _____
· All TATs subject to laboratory approval.
· Min. 24-hour notification needed for rushes.
· Samples disposed of after 60 days unless otherwise instructed.

Report To: Malcolm Beeler
500 Enterprise Dr.
Suite 1A
Rocky Hill CT 06067
Telephone #:
Project Mgr.

Invoice To: same

P.O. No.: RQN:

Project No.: 60225155. MISA0600
Site Name: Greenwich HS MISA
Location: Greenwich State: CT
Sampler(s): J. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= 12=

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab-Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: RSR 15 Metals
SB75843-01	PipeBedding-1	8.28.13	1145	C	SO		2			X
	~~GeneralFill-1~~	~~8.28.13~~	~~1150~~	C	SO		2			X

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☐ No ☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other
State-specific reporting standards:

3.3 LL 2.3 IR OZ

Relinquished by:	Received by:	Date:	Time:	Temp°C
	jet	8.28.13	1:45 PM	
jet		8/28/13	1603	

☒ EDD Format EQuIS
☒ E-mail to malcolm.beeler@AECOM.com
julie.williams2@AECOM.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Report Date:
16-Sep-13 14:10

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

AECOM Environment
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06067
Attn: Malcolm Beeler

Project: Greenwich HS - Greenwich, CT
Project #: 60225155.MISA0600

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB76374-01	BLKMAT-1	Solid	06-Sep-13 14:07	09-Sep-13 14:50

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 14 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

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Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

The samples were received 0.6 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

CT ETPH

Spikes:

1321828-MS1 *Source: SB76374-01*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

C9-C36 Aliphatic Hydrocarbons

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

1-Chlorooctadecane

1321828-MSD1 *Source: SB76374-01*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

C9-C36 Aliphatic Hydrocarbons

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

1-Chlorooctadecane

Duplicates:

1321828-DUP1 *Source: SB76374-01*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

1-Chlorooctadecane

Samples:

SB76374-01 *BLKMAT-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

1-Chlorooctadecane

SW846 8270D

SW846 8270D

Spikes:

1321827-MS1 *Source: SB76374-01*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

1321827-MSD1 *Source: SB76374-01*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Duplicates:

1321827-DUP1 *Source: SB76374-01*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Samples:

SB76374-01 *BLKMAT-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sample Acceptance Check Form

Client:	AECOM Environment - Rocky Hill, CT
Project:	Greenwich HS - Greenwich, CT / 60225155.MISA0600
Work Order:	SB76374
Sample(s) received on:	9/9/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☐	☑	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☐	☑	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
BLKMAT-1 SB76374-01	60225155.MISA0600	Solid	06-Sep-13 14:07	09-Sep-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			GS1										
Prepared by method SW846 3550C													
83-32-9	Acenaphthene	**2,360,000**	D	µg/kg	1980000	503000	20	SW846 8270D	11-Sep-13	14-Sep-13	MSL	1321827	X
208-96-8	Acenaphthylene	< 1980000	D	µg/kg	1980000	549000	20	"	"	"	"	"	X
120-12-7	Anthracene	**8,570,000**	D	µg/kg	1980000	505000	20	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**11,000,000**	D	µg/kg	1980000	530000	20	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**9,100,000**	D	µg/kg	1980000	539000	20	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**9,450,000**	D	µg/kg	1980000	430000	20	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**4,390,000**	D	µg/kg	1980000	551000	20	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**4,940,000**	D	µg/kg	1980000	701000	20	"	"	"	"	"	X
218-01-9	Chrysene	**10,000,000**	D	µg/kg	1980000	559000	20	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 1980000	D	µg/kg	1980000	511000	20	"	"	"	"	"	X
206-44-0	Fluoranthene	**30,600,000**	D	µg/kg	1980000	553000	20	"	"	"	"	"	X
86-73-7	Fluorene	**3,770,000**	D	µg/kg	1980000	551000	20	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**5,100,000**	D	µg/kg	1980000	549000	20	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1980000	D	µg/kg	1980000	584000	20	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 1980000	D	µg/kg	1980000	565000	20	"	"	"	"	"	X
91-20-3	Naphthalene	< 1980000	D	µg/kg	1980000	553000	20	"	"	"	"	"	X
85-01-8	Phenanthrene	**28,100,000**	D	µg/kg	1980000	529000	20	"	"	"	"	"	X
129-00-0	Pyrene	**19,100,000**	D	µg/kg	1980000	479000	20	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*68*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*100*			*30-130 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons			GS1										
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 74600	D	mg/kg	74600	3730	20	CT ETPH	11-Sep-13	13-Sep-13	SEP	1321828	
68476-30-2	Fuel Oil #2	< 74600	D	mg/kg	74600	7460	20	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 74600	D	mg/kg	74600	7460	20	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 74600	D	mg/kg	74600	18700	20	"	"	"	"	"	
M09800000	Motor Oil	< 74600	D	mg/kg	74600	7460	20	"	"	"	"	"	
J00100000	Aviation Fuel	< 74600	D	mg/kg	74600	18700	20	"	"	"	"	"	
	Unidentified	**575,000**	D	mg/kg	74600	18700	20	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg	74600	7460	20	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**575,000**	D	mg/kg	74600	7460	20	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**575,000**	D	mg/kg	74600	6900	20	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*0*	S01		*50-150 %*			"	"	"	"	"	

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Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1321827 - SW846 3550C										
Blank (1321827-BLK1)					Prepared: 11-Sep-13 Analyzed: 13-Sep-13					
Acenaphthene	< 10000		µg/kg	10000						
Acenaphthylene	< 10000		µg/kg	10000						
Anthracene	< 10000		µg/kg	10000						
Benzo (a) anthracene	< 10000		µg/kg	10000						
Benzo (a) pyrene	< 10000		µg/kg	10000						
Benzo (b) fluoranthene	< 10000		µg/kg	10000						
Benzo (g,h,i) perylene	< 10000		µg/kg	10000						
Benzo (k) fluoranthene	< 10000		µg/kg	10000						
Chrysene	< 10000		µg/kg	10000						
Dibenzo (a,h) anthracene	< 10000		µg/kg	10000						
Fluoranthene	< 10000		µg/kg	10000						
Fluorene	< 10000		µg/kg	10000						
Indeno (1,2,3-cd) pyrene	< 10000		µg/kg	10000						
1-Methylnaphthalene	< 10000		µg/kg	10000						
2-Methylnaphthalene	< 10000		µg/kg	10000						
Naphthalene	< 10000		µg/kg	10000						
Phenanthrene	< 10000		µg/kg	10000						
Pyrene	< 10000		µg/kg	10000						
Surrogate: 2-Fluorobiphenyl	*57600*		µg/kg		*100000*		*58*	*30-130*		
Surrogate: Terphenyl-dl4	*56900*		µg/kg		*100000*		*57*	*30-130*		
LCS (1321827-BS1)					Prepared: 11-Sep-13 Analyzed: 13-Sep-13					
Acenaphthene	**84000**		µg/kg	10000	100000		84	40-140		
Acenaphthylene	**88300**		µg/kg	10000	100000		88	40-140		
Anthracene	**82800**		µg/kg	10000	100000		83	40-140		
Benzo (a) anthracene	**81600**		µg/kg	10000	100000		82	40-140		
Benzo (a) pyrene	**82000**		µg/kg	10000	100000		82	40-140		
Benzo (b) fluoranthene	**80600**		µg/kg	10000	100000		81	40-140		
Benzo (g,h,i) perylene	**81100**		µg/kg	10000	100000		81	40-140		
Benzo (k) fluoranthene	**85400**		µg/kg	10000	100000		85	40-140		
Chrysene	**84400**		µg/kg	10000	100000		84	40-140		
Dibenzo (a,h) anthracene	**87000**		µg/kg	10000	100000		87	40-140		
Fluoranthene	**84600**		µg/kg	10000	100000		85	40-140		
Fluorene	**83600**		µg/kg	10000	100000		84	40-140		
Indeno (1,2,3-cd) pyrene	**87600**		µg/kg	10000	100000		88	40-140		
1-Methylnaphthalene	**74600**		µg/kg	10000	100000		75	40-140		
2-Methylnaphthalene	**86200**		µg/kg	10000	100000		86	40-140		
Naphthalene	**86700**		µg/kg	10000	100000		87	40-140		
Phenanthrene	**81700**		µg/kg	10000	100000		82	40-140		
Pyrene	**81300**		µg/kg	10000	100000		81	40-140		
Surrogate: 2-Fluorobiphenyl	*74100*		µg/kg		*100000*		*74*	*30-130*		
Surrogate: Terphenyl-dl4	*70300*		µg/kg		*100000*		*70*	*30-130*		
Duplicate (1321827-DUP1)		GS1	**Source: SB76374-01**		Prepared: 11-Sep-13 Analyzed: 14-Sep-13					
Acenaphthene	**2150000**	D	µg/kg	1970000		2360000			9	30
Acenaphthylene	< 1970000	D	µg/kg	1970000		BRL				30
Anthracene	**8180000**	D	µg/kg	1970000		8570000			5	30
Benzo (a) anthracene	**10400000**	D	µg/kg	1970000		11000000			6	30
Benzo (a) pyrene	**8610000**	D	µg/kg	1970000		9100000			5	30
Benzo (b) fluoranthene	**8350000**	D	µg/kg	1970000		9450000			12	30
Benzo (g,h,i) perylene	**3890000**	D	µg/kg	1970000		4390000			12	30
Benzo (k) fluoranthene	**5730000**	D	µg/kg	1970000		4940000			15	30
Chrysene	**9750000**	D	µg/kg	1970000		10000000			3	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1321827 - SW846 3550C										
Duplicate (1321827-DUP1)		GS1	**Source: SB76374-01**		Prepared: 11-Sep-13 Analyzed: 14-Sep-13					
Dibenzo (a,h) anthracene	**1220000**	J,D	µg/kg	1970000		1250000			3	30
Fluoranthene	**29600000**	D	µg/kg	1970000		30600000			3	30
Fluorene	**3670000**	D	µg/kg	1970000		3770000			3	30
Indeno (1,2,3-cd) pyrene	**4530000**	D	µg/kg	1970000		5100000			12	30
1-Methylnaphthalene	< 1970000	D	µg/kg	1970000		BRL				30
2-Methylnaphthalene	< 1970000	D	µg/kg	1970000		BRL				30
Naphthalene	< 1970000	D	µg/kg	1970000		BRL				30
Phenanthrene	**26700000**	D	µg/kg	1970000		28100000			5	30
Pyrene	**18100000**	D	µg/kg	1970000		19100000			5	30
Surrogate: 2-Fluorobiphenyl	*66900*		µg/kg		*98400*		*68*	*30-130*		
Surrogate: Terphenyl-dl4	*82600*		µg/kg		*98400*		*84*	*30-130*		
Matrix Spike (1321827-MS1)		QM2	**Source: SB76374-01**		Prepared: 11-Sep-13 Analyzed: 14-Sep-13					
Acenaphthene	**2170000**	D	µg/kg	2000000	99600	2360000	-194	40-140		
Acenaphthylene	< 2000000	D	µg/kg	2000000	99600	BRL		40-140		
Anthracene	**7900000**	D	µg/kg	2000000	99600	8570000	-677	40-140		
Benzo (a) anthracene	**10000000**	D	µg/kg	2000000	99600	11000000	-970	40-140		
Benzo (a) pyrene	**8420000**	D	µg/kg	2000000	99600	9100000	-681	40-140		
Benzo (b) fluoranthene	**7570000**	D	µg/kg	2000000	99600	9450000	-1890	40-140		
Benzo (g,h,i) perylene	**3830000**	D	µg/kg	2000000	99600	4390000	-558	40-140		
Benzo (k) fluoranthene	**6010000**	D	µg/kg	2000000	99600	4940000	1080	40-140		
Chrysene	**9260000**	D	µg/kg	2000000	99600	10000000	-774	40-140		
Dibenzo (a,h) anthracene	**1210000**	D	µg/kg	2000000	99600	1250000	-46	40-140		
Fluoranthene	**27700000**	D	µg/kg	2000000	99600	30600000	-2910	40-140		
Fluorene	**3690000**	D	µg/kg	2000000	99600	3770000	-79	40-140		
Indeno (1,2,3-cd) pyrene	**4570000**	D	µg/kg	2000000	99600	5100000	-532	40-140		
1-Methylnaphthalene	< 2000000	D	µg/kg	2000000	99600	BRL		40-140		
2-Methylnaphthalene	< 2000000	D	µg/kg	2000000	99600	BRL		40-140		
Naphthalene	< 2000000	D	µg/kg	2000000	99600	BRL		40-140		
Phenanthrene	**26200000**	D	µg/kg	2000000	99600	28100000	-1910	40-140		
Pyrene	**17300000**	D	µg/kg	2000000	99600	19100000	-1760	40-140		
Surrogate: 2-Fluorobiphenyl	*63800*		µg/kg		*99600*		*64*	*30-130*		
Surrogate: Terphenyl-dl4	*79700*		µg/kg		*99600*		*80*	*30-130*		
Matrix Spike Dup (1321827-MSD1)		QM2	**Source: SB76374-01**		Prepared: 11-Sep-13 Analyzed: 14-Sep-13					
Acenaphthene	**2170000**	D	µg/kg	1860000	92700	2360000	-210	40-140	NR	30
Acenaphthylene	< 1860000	D	µg/kg	1860000	92700	BRL		40-140		30
Anthracene	**7690000**	D	µg/kg	1860000	92700	8570000	-953	40-140	NR	30
Benzo (a) anthracene	**8960000**	D	µg/kg	1860000	92700	11000000	-2190	40-140	NR	30
Benzo (a) pyrene	**7560000**	D	µg/kg	1860000	92700	9100000	-1660	40-140	NR	30
Benzo (b) fluoranthene	**7410000**	D	µg/kg	1860000	92700	9450000	-2200	40-140	NR	30
Benzo (g,h,i) perylene	**3240000**	D	µg/kg	1860000	92700	4390000	-1240	40-140	NR	30
Benzo (k) fluoranthene	**4920000**	D	µg/kg	1860000	92700	4940000	-22	40-140	NR	30
Chrysene	**8570000**	D	µg/kg	1860000	92700	10000000	-1580	40-140	NR	30
Dibenzo (a,h) anthracene	**1190000**	D	µg/kg	1860000	92700	1250000	-68	40-140	NR	30
Fluoranthene	**25200000**	D	µg/kg	1860000	92700	30600000	-5820	40-140	NR	30
Fluorene	**3720000**	D	µg/kg	1860000	92700	3770000	-56	40-140	NR	30
Indeno (1,2,3-cd) pyrene	**3950000**	D	µg/kg	1860000	92700	5100000	-1240	40-140	NR	30
1-Methylnaphthalene	< 1860000	D	µg/kg	1860000	92700	BRL		40-140		30
2-Methylnaphthalene	< 1860000	D	µg/kg	1860000	92700	BRL		40-140		30
Naphthalene	< 1860000	D	µg/kg	1860000	92700	BRL		40-140		30
Phenanthrene	**25000000**	D	µg/kg	1860000	92700	28100000	-3330	40-140	NR	30
Pyrene	**15800000**	D	µg/kg	1860000	92700	19100000	-3510	40-140	NR	30

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1321827 - SW846 3550C										
Matrix Spike Dup (1321827-MSD1)		QM2	**Source: SB76374-01**		Prepared: 11-Sep-13 Analyzed: 14-Sep-13					
Surrogate: 2-Fluorobiphenyl	*59400*		µg/kg		*92700*		*64*	*30-130*		
Surrogate: Terphenyl-dl4	*74200*		µg/kg		*92700*		*80*	*30-130*		

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1321828 - SW846 3550C										
Blank (1321828-BLK1)					Prepared: 11-Sep-13 Analyzed: 12-Sep-13					
Gasoline	< 3990		mg/kg	3990						
Fuel Oil #2	< 3990		mg/kg	3990						
Fuel Oil #4	< 3990		mg/kg	3990						
Fuel Oil #6	< 3990		mg/kg	3990						
Motor Oil	< 3990		mg/kg	3990						
Aviation Fuel	< 3990		mg/kg	3990						
Unidentified	< 3990		mg/kg	3990						
Other Oil	< 3990		mg/kg	3990						
Total Petroleum Hydrocarbons	< 3990		mg/kg	3990						
C9-C36 Aliphatic Hydrocarbons	< 3990		mg/kg	3990						
n-Nonadecane	< 0.8		mg/kg	0.8						
n-Nonane	< 0.8		mg/kg	0.8						
n-Decane	< 0.8		mg/kg	0.8						
n-Dodecane	< 0.8		mg/kg	0.8						
n-Tetradecane	< 0.8		mg/kg	0.8						
n-Hexadecane	< 0.8		mg/kg	0.8						
n-Octadecane	< 0.8		mg/kg	0.8						
n-Eicosane	< 0.8		mg/kg	0.8						
n-Docosane	< 0.8		mg/kg	0.8						
n-Tetracosane	< 0.8		mg/kg	0.8						
n-Hexacosane	< 0.8		mg/kg	0.8						
n-Octacosane	< 0.8		mg/kg	0.8						
n-Triacontane	< 0.8		mg/kg	0.8						
n-Hexatriacontane	< 0.8		mg/kg	0.8						
Surrogate: 1-Chlorooctadecane	*73.0*		mg/kg		*100*		*73*	*50-150*		
LCS (1321828-BS1)					Prepared: 11-Sep-13 Analyzed: 12-Sep-13					
C9-C36 Aliphatic Hydrocarbons	**2960**		mg/kg	3990	2800		106	60-120		
Surrogate: 1-Chlorooctadecane	*84.5*		mg/kg		*100*		*85*	*50-150*		
Duplicate (1321828-DUP1)		GS1	**Source: SB76374-01**		Prepared: 11-Sep-13 Analyzed: 12-Sep-13					
Gasoline	< 72900	D	mg/kg	72900		BRL				50
Fuel Oil #2	< 72900	D	mg/kg	72900		BRL				50
Fuel Oil #4	< 72900	D	mg/kg	72900		BRL				50
Fuel Oil #6	< 72900	D	mg/kg	72900		BRL				50
Motor Oil	< 72900	D	mg/kg	72900		BRL				50
Aviation Fuel	< 72900	D	mg/kg	72900		BRL				50
Unidentified	**600000**	D	mg/kg	72900		575000			4	50
Other Oil	**Calculated as**		mg/kg	72900		Calculated as				50
Total Petroleum Hydrocarbons	**600000**	D	mg/kg	72900		575000			4	50
C9-C36 Aliphatic Hydrocarbons	**600000**	D	mg/kg	72900		575000			4	50
Surrogate: 1-Chlorooctadecane	*0.00*	S01	mg/kg		*91.4*			*50-150*		
Matrix Spike (1321828-MS1)		GS1	**Source: SB76374-01**		Prepared: 11-Sep-13 Analyzed: 12-Sep-13					
C9-C36 Aliphatic Hydrocarbons	**566000**	QM7, D	mg/kg	72900	2560	575000	-356	50-150		
Surrogate: 1-Chlorooctadecane	*0.00*	S01	mg/kg		*91.4*			*50-150*		
Matrix Spike Dup (1321828-MSD1)		GS1	**Source: SB76374-01**		Prepared: 11-Sep-13 Analyzed: 12-Sep-13					
C9-C36 Aliphatic Hydrocarbons	**544000**	QM7, D	mg/kg	73200	2570	575000	-1210	50-150	NR	30
Surrogate: 1-Chlorooctadecane	*0.00*	S01	mg/kg		*91.7*			*50-150*		

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S306464				
Initial Cal Check (S306464-ICV1)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.595381E+08	3.0	30
n-Nonadecane	3.353948E+08	3.37716E+08	0.7	30
n-Nonane	3.350168E+08	3.313795E+08	-1.1	30
n-Decane	3.360605E+08	3.337294E+08	-0.7	30
n-Dodecane	3.365143E+08	3.362975E+08	-0.06	30
n-Tetradecane	3.376027E+08	3.356885E+08	-0.6	30
n-Hexadecane	3.442821E+08	3.382331E+08	-1.8	30
n-Octadecane	3.391093E+08	3.381322E+08	-0.3	30
n-Eicosane	3.378662E+08	3.365021E+08	-0.4	30
n-Docosane	3.35257E+08	3.381542E+08	0.9	30
n-Tetracosane	3.322211E+08	3.365853E+08	1.3	30
n-Hexacosane	3.327109E+08	3.358834E+08	1.0	30
n-Octacosane	3.278913E+08	3.249442E+08	-0.9	30
n-Triacontane	3.256576E+08	3.32436E+08	2.1	30
n-Hexatriacontane	3.14041E+08	3.184885E+08	1.4	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S311040				
Calibration Check (S311040-CCV1)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.223004E+08	-9.5	30
n-Nonadecane	3.353948E+08	2.794504E+08	-16.7	30
n-Nonane	3.350168E+08	2.479985E+08	-26.0	30
n-Decane	3.360605E+08	2.591757E+08	-22.9	30
n-Dodecane	3.365143E+08	2.63127E+08	-21.8	30
n-Tetradecane	3.376027E+08	2.651128E+08	-21.5	30
n-Hexadecane	3.442821E+08	2.747916E+08	-20.2	30
n-Octadecane	3.391093E+08	2.780607E+08	-18.0	30
n-Eicosane	3.378662E+08	2.825719E+08	-16.4	30
n-Docosane	3.35257E+08	2.790398E+08	-16.8	30
n-Tetracosane	3.322211E+08	2.792804E+08	-15.9	30
n-Hexacosane	3.327109E+08	2.808378E+08	-15.6	30
n-Octacosane	3.278913E+08	2.794556E+08	-14.8	30
n-Triacontane	3.256576E+08	2.800626E+08	-14.0	30
n-Hexatriacontane	3.14041E+08	2.814382E+08	-10.4	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S311040				
Calibration Check (S311040-CCV2)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.473415E+08	-1.1	30
n-Nonadecane	3.353948E+08	3.014548E+08	-10.1	30
n-Nonane	3.350168E+08	2.691034E+08	-19.7	30
n-Decane	3.360605E+08	2.82329E+08	-16.0	30
n-Dodecane	3.365143E+08	2.856721E+08	-15.1	30
n-Tetradecane	3.376027E+08	2.904357E+08	-14.0	30
n-Hexadecane	3.442821E+08	2.97797E+08	-13.5	30
n-Octadecane	3.391093E+08	3.005866E+08	-11.4	30
n-Eicosane	3.378662E+08	3.042579E+08	-9.9	30
n-Docosane	3.35257E+08	3.001287E+08	-10.5	30
n-Tetracosane	3.322211E+08	3.010985E+08	-9.4	30
n-Hexacosane	3.327109E+08	3.030328E+08	-8.9	30
n-Octacosane	3.278913E+08	3.021859E+08	-7.8	30
n-Triacontane	3.256576E+08	3.031991E+08	-6.9	30
n-Hexatriacontane	3.14041E+08	3.056769E+08	-2.7	30

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
QM2	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
S01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin and waste automobile oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as Calculated as.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
June O'Connor
Rebecca Merz

1 of 1 SB376374 R4

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- [x] ~~Standard TAT - 7 to 10 business days~~ 5 day
- [ ] Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Malcolm Beeler
AEcom
500 Enterprise Dr. Suite 1A
Rocky Hill CT 06067
Telephone #:
Project Mgr. M. Beeler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155.MISA0000
Site Name: Greenwich HS MISA
Location: Greenwich State: CT
Sampler(s): J. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: CT ETPH PAHs	QA/QC Reporting Notes
SB376374	BLKMAT-1	9-6-13	1407	C			3			X	*Material Flows when warmed and may require Method 3580 waste dilution instead of extraction as a solid*

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☐ No ☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NYASP A* ☐ NYASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
Julie Williams	JLT	9-9-13	11:45	
		9/6/13	1450	

- [x] EDD Format EQUIS
- [x] E-mail to Malcolm.Beeler@AECOM.com
julie.williams2@AECOM.com

Condition upon receipt:
☒ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

10/1/2013 IR 01

1 SB76379 RA

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- [X] Standard TAT - ~~7 to 10~~ 5 business days
- [ ] Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Malcolm Beeler
AECom
500 Enterprise Dr. Suite 1A
Rocky Hill CT 06067
Telephone #:
Project Mgr. M. Beeler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155.MISA0000
Site Name: Greenwich Hts MISA
Location: Greenwich State: CT
Sampler(s): J. Williams

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= Deionized Water 10= H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: CT ETPH PAHs
SB76379A	BLKMAT-1	9-6-13	1407	C			3			X

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☐ No ☒ per client request
QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA* RA 9/10
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____
State-specific reporting standards:

Material Flows when warmed and may require Method 3580 waste dilution instead of extraction as a solid

Relinquished by:	Received by:	Date:	Time:	Temp°C
Julie Williams	JUT	9-9-13	11:45	
		~~9/10/13~~ 9/9/13	1450	

☒ EDD Format EQUIS
☒ E-mail to Malcolm.Beeler@AECom.com
julie.williams2@AECom.com

Condition upon receipt:
☒ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

9/10/13 IR 01

SB76374 RM

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- [x] ~~Standard TAT - 7 to 10 business days~~ 5-day
- [ ] Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Malcolm Beeler
AEcom
500 Enterprise Dr. Suite 1A
Rocky Hill CT 06067
Telephone #:
Project Mgr. M. Beeler

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60225155.MISA0000
Site Name: Greenwich Hts MISA
Location: Greenwich State: CT
Sampler(s): J. Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11=_____ 12=_____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= Solid X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: CT ETPH PAHs
SB76374	BLKMAT-1	9-6-13	1407	C	X1		3			X

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☐ No ☒ per client request RM 9/10

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA* ☐ NY ASP A* ☐ NY ASP B* ☐ NJ Reduced* ☐ NJ Full* ☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Material Flows when warmed and may require Method 3580 waste dilution instead of extraction as a solid

Matrix is Solid per client request SM 9/10

Relinquished by:	Received by:	Date:	Time:	Temp°C
Julie Williams	JLT	9-9-13	11:45	
		~~9/10/13~~ 9/9/13	1450	

9/9/13

1.6/-1/0.6 IR 01

☒ EDD Format EQUIS
☒ E-mail to Malcolm.Beeler@AECOM.com
julie.williams2@AECOM.com

Condition upon receipt:
☒ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Appendix G
Data Quality Reports

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB74515
Date Samples Collected: 7-Aug-13
Number of Samples Collected: 10 **Matrix:** Soil
Analysis: CT ETPH
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes with the advisories noted below. **Selected data points would be qualified as estimated**. No data were rejected.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Aqueous: 7 days to extraction. 40 days from extraction to analysis. Soil: 14 days to extraction. 40 days from extraction to analysis. Up to one year for samples frozen within 48 hours of collection.	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements Analysis: CT ETPH Cont'd	**Criteria**	**Briefly Summarize DQA Nonconformances**
Initial and Continuing Calibration	ICAL:% RSD must be ≤30% or if linear regression used "r" ≥ 0.990 CCV: Percent difference or drift ±30%.	Meets criteria and no issues narrated.
Laboratory Control Samples (Blank Spike)	Percent recovery 60-120%	Meets criteria.
Surrogates	Percent recovery 50-150%	No issues narrated.
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 50-150% RPD's ≤ 30%	None analyzed with this data set.
Quantitation Limits	Dilutions	(A)The Reporting Limit has been raised to for matrix interference for the following: AOC-3-BOT2(8)-1**; No qualifications**
Additional QC	Duplicates RPD 50% (lab limits)	Case narrative indicates non-homogeneous sample matrix for AOC-3-SSW1(4)-1: Total Petroleum Hydrocarbons, C9-C36 Aliphatic Hydrocarbons 54% RPD; **Estimate J/UJ**

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB74515
Date Samples Collected: 7-Aug-13
Number of Samples Collected: 10 **Matrix:** Soil
Analysis: SW846 6010C/1312 SPLP Extraction
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes. **No data were qualified or rejected.**

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Extracts prepared within 180 days of collection	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank/Extraction Blank/Calibration Blank	< RLs	Meets criteria and/or No issues narrated.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements **Analysis:** SW846 1312/6010C Cont'd	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	ICAL: Linear curve with "r" ≥ 0.995. Can use second order fit if r ≥ 0.995. ICV ±10% of true value. Must use at least two replicates with RPD <5% CCAL: Recovery ±10% of true value, Must use at least two replicates with RPD <5%.	No issues narrated.
Laboratory Control Samples (Blank Spike)	LCS recoveries ±20% for aqueous media and within vendor control (95% confidence limits) for solids.	Meets criteria.
Surrogates	NA	**NA**
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 75-125% Aqueous samples, if concentration>5x the RL, RPD <20%. If concentration <5x RL, difference ±RL. Solids if concentration >5x RL, RPD <35%. If conc. < 5x RL, difference ± 2x RL	Meets criteria.
Quantitation Limits	Dilutions	No issues narrated.

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB74515
Date Samples Collected: 7-Aug-13
Number of Samples Collected: 10 **Matrix:** Soil
Analysis: SW846 8082A
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes. **No data were qualified or rejected.**

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Extraction 7 days (aqueous), 14 days (soil); 40 days to analysis (aqueous and soil)	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements **Analysis:** SW846 8082A Cont'd	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	% RSD ≤ 20%, "r" ≥ 0.990 % difference or drift ≤ 15%	No issues narrated.
Laboratory Control Samples (Blank Spike)	Percent recovery 40-140%	Meets criteria.
Surrogates	Percent recovery 30-150%	The surrogate recovery for Decachlorobiphenyl (Sr) in sample AOC-3-WSW2 (4)-1, cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract. **No qualifications**
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 40-140%	None analyzed with this data set.
Quantitation Limits	Dilutions	The Reporting Limit has been raised to account for matrix interference for the following: AOC-3-NSW1(4)-1 for these compounds: Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248 **No qualifications**
Tentatively Identified Compounds		N/A
Other QC data	GC Dual Column % Difference Criteria <40%	No issues narrated.

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB74884
Date Samples Collected: 13-Aug-13
Number of Samples Collected: 5 **Matrix:** Soil
Analysis: CT ETPH
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes. **No data were qualified or rejected.**

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Aqueous: 7 days to extraction. 40 days from extraction to analysis. Soil: 14 days to extraction. 40 days from extraction to analysis. Up to one year for samples frozen within 48 hours of collection.	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements Analysis: CT ETPH Cont'd	**Criteria**	**Briefly Summarize DQA Nonconformances**
Initial and Continuing Calibration	ICAL:% RSD must be ≤30% or if linear regression used "r" ≥ 0.990 CCV: Percent difference or drift ±30%.	Meets criteria and no issues narrated.
Laboratory Control Samples (Blank Spike)	Percent recovery 60-120%	Meets criteria.
Surrogates	Percent recovery 50-150%	No issues narrated.
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 50-150% RPD's ≤ 30%	None analyzed with this data set.
Quantitation Limits	Dilutions	No issues narrated.
Additional QC	Duplicates RPD 50% (lab limits)	None analyzed with this data set.

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB74884
Date Samples Collected: 13-Aug-13
Number of Samples Collected: 5 **Matrix:** Soil
Analysis: SW846 8082A
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes with the advisories noted below. **Selected data points would be qualified as estimated**. No data were rejected.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Extraction 7 days (aqueous), 14 days (soil); 40 days to analysis (aqueous and soil)	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements **Analysis:** SW846 8082A Cont'd	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	% RSD ≤ 20%, "r" ≥ 0.990 % difference or drift ≤ 15%	No issues narrated.
Laboratory Control Samples (Blank Spike)	Percent recovery 40-140%	Meets criteria.
Surrogates	Percent recovery 30-150%	The surrogate recovery for 4,4-DB-Octafluorobiphenyl (Sr) in samples AOC-4-BOT (6)-1, AOC-4-WSW(4)-1, cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract. **No qualifications**
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 40-140%	SB74884-05 MS/MSD – (A)The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample: Aroclor-1016 277%/192%, RPD 36% (high); Aroclor-1016 [2C] 277%/437%, RPD 45% (high); Aroclor-1260 -173%/-375%, RPD not reported; Aroclor-1260 [2C] -47%/-68, RPD not reported. No actions since sample was >2X amount spiked **No qualifications** (B) The spike recovery for this QC sample is outside of established control limits due to sample matrix interference Aroclor-1016 277%/192%; Aroclor-1016 [2C] 277%/437% No actions since sample was >2X amount spiked **No qualifications**
Quantitation Limits	Dilutions	The Reporting Limit has been raised to account for matrix interference for the following: AOC-4-NSW(4)-1 for these compounds: Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, and Aroclor-1254 **No qualifications**
Tentatively Identified Compounds		N/A
Other QC data	GC Dual Column % Difference Criteria <40%	Difference between the two GC columns is greater than 40% for sample AOC-4-SSW(4)-1: **Aroclor-1248 Estimate J**
	Duplicates RPD <30%	RPD out of acceptance range for AOC-4-WSW(4)-1 Aroclor-1260 **No actions column 2 was reported**

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB74823
Date Samples Collected: 12-Aug-13
Number of Samples Collected: 5 **Matrix:** Soil
Analysis: SW846 6010C/1312 SPLP Extraction
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes. **No data were qualified or rejected.**

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Extracts prepared within 180 days of collection	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank/Extraction Blank/Calibration Blank	< RLs	Meets criteria and/or No issues narrated.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements **Analysis:** SW846 1312/6010C Cont'd	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	ICAL: Linear curve with "r" ≥ 0.995. Can use second order fit if r ≥ 0.995. ICV ±10% of true value. Must use at least two replicates with RPD <5% CCAL: Recovery ±10% of true value, Must use at least two replicates with RPD <5%.	No issues narrated.
Laboratory Control Samples (Blank Spike)	LCS recoveries ±20% for aqueous media and within vendor control (95% confidence limits) for solids.	Meets criteria.
Surrogates	NA	**NA**
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 75-125% RPD Aqueous samples, if concentration>5x the RL, RPD <20%. If concentration <5x RL, difference ±RL. RPD Solids if concentration >5x RL, RPD <35%. If conc. < 5x RL, difference ± 2x RL	SB74823-05 MS/MSD – Lead 109%/150%, Based on NFG guidance and professional judgement, sample was Not >4X amount spiked and no post digestion spike was reported but spike amount was relatively low compared to sample concentration (Spike=132 mg/kg x 4=528 mg/kg; sample concentration 488 mg/kg) **No qualifications**
Quantitation Limits	Dilutions	No issues narrated.

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB74979
Date Samples Collected: 14-Aug-13
Number of Samples Collected: 1 **Matrix:** Soil
Analysis: SW846 6010C/1312 SPLP Extraction
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes. **No data were qualified or rejected.**

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Extracts prepared within 180 days of collection	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank/Extraction Blank/Calibration Blank	< RLs	Meets criteria and/or No issues narrated.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements **Analysis:** SW846 1312/6010C Cont'd	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	ICAL: Linear curve with "r" ≥ 0.995. Can use second order fit if r ≥ 0.995. ICV ±10% of true value. Must use at least two replicates with RPD <5% CCAL: Recovery ±10% of true value, Must use at least two replicates with RPD <5%.	No issues narrated.
Laboratory Control Samples (Blank Spike)	LCS recoveries ±20% for aqueous media and within vendor control (95% confidence limits) for solids.	Meets criteria.
Surrogates	NA	**NA**
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 75-125% RPD Aqueous samples, if concentration>5x the RL, RPD <20%. If concentration <5x RL, difference ±RL. RPD Solids if concentration >5x RL, RPD <35%. If conc. < 5x RL, difference ± 2x RL	Meets criteria.
Quantitation Limits	Dilutions	No issues narrated.

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB73732
Date Samples Collected: 24-Jul-13
Number of Samples Collected: 40 **Matrix:** Soil
Analysis: SW846 8082A/3540C
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes with the advisories noted below. **Selected data points would be qualified as estimated. No data were rejected.**

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Extraction 7 days (aqueous), 14 days (soil); 40 days to analysis (aqueous and soil)	The samples were received at 0.2 degrees Celsius Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	% RSD ≤ 20%, "r" ≥ 0.990 % difference or drift ≤ 15%	No issues narrated.
Laboratory Control Samples (Blank Spike)	Percent recovery 40-140%	Meets criteria.
Surrogates	Percent recovery 30-150%	(A)The surrogate recovery for 4,4-DB-Octafluorobiphenyl (Sr) in sample AOC-1a-AA00(8)-1, AOC-1a-AAS03(3)-1, AOC-1a-EBS02(7)-1, AOC-1a-EDS01(3)-1, AOC-1a-WBS01(8)-1, AOC-1a-WBS03(3)-1, AOC-1a-WCS01(7)-1, cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract. (B) The surrogate diluted out for AOC-1a-EBN03(3)-1, AOC-1a-ECS01(8)-1, AOC-1a-WBN02(8)-1 due to high analyte concentration: 4,4-DB-Octafluorobiphenyl (Sr) 4,4-DB-Octafluorobiphenyl (Sr) [2C] Decachlorobiphenyl (Sr) Decachlorobiphenyl (Sr) [2C] **No qualifications**
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 40-140%	SB73732-01 MS/MSD - Aroclor-1016 856%/967%; Aroclor-1016 [2C] 436%/689 RPD 45%(high), SB73732-21 MS/MSD - Aroclor-1016 468%/510%; Aroclor-1016 [2C] – OK/145%, no actions since matrix interference present. **No qualifications**
Quantitation Limits	Dilutions	(A)The Reporting Limit has been raised to account for matrix interference for the following: AOC-1a-AAN03(3)-1, AOC-1a-EBS03(3)-1, AOC-1a-ED00(3)-1, AOC-1a-EDN01(3)-1, AOC-1a-WB00(8)-1, AOC-1a-WBN03(3)-1, AOC-1a-WCN02(3)-1, AOC-1a-WCS02(3)-1, AOC-1a-WD00(3)-1, AOC-1a-WDN01(3)-1, AOC-1a-WDS01(3)-1 for these compounds: Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248 (B)Sample dilution required for high concentration of target analytes to be within the instrument calibration range for the following: AOC-1a-EBN03(3)-1, AOC-1a-ECS01(8)-1, AOC-1a-WBN02(8)-1, AOC-1a-WBS02(8)-1 **No qualifications**
Tentatively Identified Compounds		N/A
Other QC data	GC Dual Column % Difference Criteria <40%	Difference between the two GC columns is greater than 40% for the following: Aroclor-1248 - AOC-1a-AAS01 (8)-1, AOC-1a-AAS02(8)-1, 1AOC-1a-AAN02(8)-1, AOC-1a-EBN02(8)-1. **Estimate (J)**

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB73888
Date Samples Collected: 26-Jul-13
Number of Samples Collected: 24 **Matrix:** Soil
Analysis: SW846 8082A/3540C
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes with the advisories noted below. **Selected data points would be qualified as estimated. No data were rejected.**

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Extraction 7 days (aqueous), 14 days (soil); 40 days to analysis (aqueous and soil)	The samples were received at 4.6 degrees Celsius Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	% RSD ≤ 20%, "r" ≥ 0.990 % difference or drift ≤ 15%	No issues narrated.
Laboratory Control Samples (Blank Spike)	Percent recovery 40-140%	Meets criteria.
Surrogates	Percent recovery 30-150%	The surrogate recovery for 4,4-DB-Octafluorobiphenyl (Sr) in sample AOC-1B-WCS01(6)-1, AOC-1B-WD00(5)-1, cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract. **No qualifications**
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 40-140%	Meets criteria.
Quantitation Limits	Dilutions	(A)The Reporting Limit has been raised to account for matrix interference for the following: AOC-1B-AAN03(3)-1 for these compounds: Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248 (B)Sample dilution required for high concentration of target analytes to be within the instrument calibration range for the following: AOC-1B-EBN02(4)-1, AOC-1B-WBN02(3.5)-1, AOC-1B-WBS02(5)-1, AOC-1B-WCS01(6)-1 **No qualifications**
Tentatively Identified Compounds		N/A
Other QC data	GC Dual Column % Difference Criteria <40%	Difference between the two GC columns is greater than 40% for the following: Aroclor-1248 - AOC-1B-WCN01(6)-1, AOC-1B-WCS01(6)-1 **Estimate (J)**

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB74024
Date Samples Collected: 30-Jul-13
Number of Samples Collected: 3 **Matrix:** Soil
Analysis: SW846 8082A/3540C
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes. **No data were qualified as a result of this validation.**

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Extraction 7 days (aqueous), 14 days (soil); 40 days to analysis (aqueous and soil)	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	% RSD ≤ 20%, "r" ≥ 0.990 % difference or drift ≤ 15%	No issues narrated.
Laboratory Control Samples (Blank Spike)	Percent recovery 40-140%	Meets criteria.
Surrogates	Percent recovery 30-150%	Meets criteria.
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 40-140%	Meets criteria.
Quantitation Limits	Dilutions	No dilutions
Tentatively Identified Compounds		N/A
Other QC data	GC Dual Column % Difference Criteria <40%	No issues narrated.

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB74437
Date Samples Collected: 06-Aug-13
Number of Samples Collected: 12 **Matrix:** Soil
Analysis: SW846 8082A/3540C
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes. **No data was qualified due to this validation.**

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Extraction 7 days (aqueous), 14 days (soil); 40 days to analysis (aqueous and soil)	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	% RSD ≤ 20%, "r" ≥ 0.990 % difference or drift ≤ 15%	No issues narrated.
Laboratory Control Samples (Blank Spike)	Percent recovery 40-140%	Meets criteria.
Surrogates	Percent recovery 30-150%	(A)The surrogate recovery for 4,4-DB-Octafluorobiphenyl (Sr) [2C] in sample AOC-2A-WBS01(5)-1 cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract. (B) All surrogates were diluted out for AOC-2A-AAN01(5)-1 due to high Aroclor-1248 [2C] and Aroclor-1260 concentrations: 4,4-DB-Octafluorobiphenyl (Sr) 4,4-DB-Octafluorobiphenyl (Sr) [2C] Decachlorobiphenyl (Sr) Decachlorobiphenyl (Sr) [2C] **No qualifications**
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 40-140%	*SB74437-08* MS/MSD - Aroclor-1016 168%/192%; Aroclor-1016 [2C] 164%/179%, no actions since matrix interference is likely and results are ND in this sample.
Quantitation Limits	Dilutions	(A)The Reporting Limit has been raised to account for matrix interference for the following: AOC-2A-WBS02(5)-1, AOC-2A-WBS02(5)-1, AOC-2A-WB00(5)-1, AOC-2A-WBS01(5)-1 for these compounds: Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248 (B)Sample dilution required for high concentration of target analytes to be within the instrument calibration range for the following: AOC-2A-AAN01(5)-1, AOC-2A-AAN02(5)-11 **No qualifications**
Tentatively Identified Compounds		N/A
Other QC data	GC Dual Column % Difference Criteria <40%	No issues narrated.

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB74821
Date Samples Collected: 12-Aug-13
Number of Samples Collected: 11 **Matrix:** Soil
Analysis: SW846 8082A/3540C
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes with the advisories noted below. **Selected data points would be qualified as estimated. No data were rejected.**

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Extraction 7 days (aqueous), 14 days (soil); 40 days to analysis (aqueous and soil)	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	% RSD ≤ 20%, "r" ≥ 0.990 % difference or drift ≤ 15%	No issues narrated.
Laboratory Control Samples (Blank Spike)	Percent recovery 40-140%	Meets criteria.
Surrogates	Percent recovery 30-150%	The surrogate recovery for 4,4-DB-Octafluorobiphenyl (Sr) in sample AOC-2B-AAS01(6)-1 cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract. **No qualifications**
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 40-140%	*SB74821-02* MS/MSD - Aroclor-1016 338%/286%; Aroclor-1016 [2C] 394%/217%RPD 45% (high), no actions since matrix interference present. **No qualifications**
Quantitation Limits	Dilutions	No issues narrated.
Tentatively Identified Compounds		N/A
Other QC data	GC Dual Column % Difference Criteria <40%	No issues narrated.
	Laboratory Duplicate Criteria <30% (lab limits)	Case narrative indicates that visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix for the following: SB74821-02 Aroclor-1260 (40% RPD) **Estimate (UJ)** SB74821-02 Aroclor-1260 [2C] (33% RPD) reported from column 1) SB74821-02 Aroclor-1248 (31% RPD) **Estimate (J)**

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB74822
Date Samples Collected: 12-Aug-13
Number of Samples Collected: 19 **Matrix:** Soil
Analysis: SW846 8082A/3540C
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes with the advisories noted below. **Sample WBS02(4)-1 listed on COC but not received. Selected data points would be qualified as estimated. No data were rejected.**

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples. Sample WBS02(4)-1 listed on COC but not received **See attached COC.**. Remaining sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Extraction 7 days (aqueous), 14 days (soil); 40 days to analysis (aqueous and soil)	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	% RSD ≤ 20%, "r" ≥ 0.990 % difference or drift ≤ 15%	No issues narrated.
Laboratory Control Samples (Blank Spike)	Percent recovery 40-140%	Meets criteria.
Surrogates	Percent recovery 30-150%	(A)The surrogate recovery for 4,4-DB-Octafluorobiphenyl (Sr) in samples AOC-2C-AAS01(8)-1, AOC-2C-AAS02(8)-1, AOC-2C-EB00(8)-1, cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract. **No qualifications** (B) Surrogate recovery outside of control limits for 4,4-DB-Octafluorobiphenyl (Sr) in samples AOC-2C-EBN03(4)-1 (165%) J+ A-1260 and accept nondetects, AOC-2C-WBN01(8)-1 (155%) **J+/Accept Nondetects**
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 40-140%	SB74822-10 MS/MSD - Aroclor-1016 197%/135%; Aroclor-1016 [2C] 320%/212, no actions since matrix interference present. **No qualifications**
Quantitation Limits	Dilutions	(A)The Reporting Limit has been raised to account for matrix interference for the following: AOC-2C-WBN03(3)-1, AOC-2C-WC00(3)-1, AOC-2C-WCN01(3)-1 for these compounds:Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248 (B)Sample dilution required for high concentration of target analytes to be within the instrument calibration range for the followingAOC-2C-EB00(8)-1, AOC-2C-WB00(8)-1 **No qualifications**
Tentatively Identified Compounds		N/A
Other QC data	GC Dual Column % Difference Criteria <40%	No issues narrated.

Phone Number | Pricing Schedule

SAMPLE DETAILS | **ANALYSIS REQUESTED** | **ADDITIONAL INFORMATION**

Sample ID	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Containers	PRESERV: Store cool at 4°C	ANALYSIS: PCBs-Soxhelt Extraction 8082/3540
AOC-2C - EBN03(4)-1	Soil	~~8/6/2013~~ 8-12-13	1504	G=Grab	1		X
AOC-2C - WB00(8)-1	Soil	~~8/6/2013~~ 8-12-13	1502	G=Grab	1		X
AOC-2C - WBN01(8)-1	Soil	~~8/6/2013~~ 8-12-13	1504	G=Grab	1		X
AOC-2C - WBN02(6)-1	Soil	~~8/6/2013~~ 8-12-13	1506	G=Grab	1		X
AOC-2C - WBN03(3)-1	Soil	~~8/6/2013~~ 8-12-13	1508	G=Grab	1		X
AOC-2C - ~~WBSWBS01(8)-1~~	Soil	~~8/6/2013~~ 8-12-13	1510	G=Grab	1		X
AOC-2C - WBS02(4)-1	Soil	~~8/6/2013~~ 8-12-13	1512	G=Grab	1		X
AOC-2C - WC00(3)-1	Soil	~~8/6/2013~~ 8-12-13	1514	G=Grab	1		X
AOC-2C WCN01(3)-1	Soil	~~8/6/2013~~ 8-12-13	1516	G=Grab	1		X
AOC-2C WCS01(4)-1	Soil	~~8/6/2013~~ 8-12-13	1518	G=Grab	1		X

Sample not received R+8/12

SB74822 -11 -12 -13 -14 -15 ~~-16~~ ~~-17~~ -16 ~~-18~~ -17 ~~-19~~ -18 ~~-20~~ -19

R+8/12 ~~8/12~~

Additional Comments/Special Instructions

48 Hour Rush on PCB samples

Relinquished By/Affiliation	Date	Time	Accepted By/Affiliation	Date	Time
	8-12-13	1530		8-12-13	3:34
				8/12/13	1615

Sample Receipt Conditions

Y / N	Y / N	Y / N	
Y / N	Y / N	Y / N	
Y / N	Y / N	Y / N	
Y / N	Y / N	Y / N	

°C | on ice? | intact? | mk?

Mobile # 631 786 6107

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB74887
Date Samples Collected: 13-Aug-13
Number of Samples Collected: 4 **Matrix:** Soil
Analysis: SW846 8082A/3540C
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes with the advisories noted below. **Selected data points would be qualified as estimated. No data were rejected.**

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Extraction 7 days (aqueous), 14 days (soil); 40 days to analysis (aqueous and soil)	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	% RSD ≤ 20%, "r" ≥ 0.990 % difference or drift ≤ 15%	No issues narrated.
Laboratory Control Samples (Blank Spike)	Percent recovery 40-140%	Meets criteria.
Surrogates	Percent recovery 30-150%	The surrogate recovery for 4,4-DB-Octafluorobiphenyl (Sr) in sample AOC-2C-EBS02(8)-1 cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract. **No qualifications**
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 40-140%	None with this data set
Quantitation Limits	Dilutions	No issues narrated.
Tentatively Identified Compounds		N/A
Other QC data	GC Dual Column % Difference Criteria <40%	Difference between the two GC columns is greater than 40% for the following: Aroclor-1248 - AOC-2C-WBS01(8)-1, AOC-2C-EBS01(8)-1 **Estimate (J)**

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB74890
Date Samples Collected: 12-Aug-13
Number of Samples Collected: 3 **Matrix:** Soil
Analysis: SW846 8082A/3540C
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes with the advisories noted below. **Selected data points would be qualified as estimated.** No data were rejected.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Extraction 7 days (aqueous), 14 days (soil); 40 days to analysis (aqueous and soil)	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	% RSD ≤ 20%, "r" ≥ 0.990 % difference or drift ≤ 15%	No issues narrated.
Laboratory Control Samples (Blank Spike)	Percent recovery 40-140%	Meets criteria.
Surrogates	Percent recovery 30-150%	Meets criteria.
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 40-140%	None analyzed with this data set.
Quantitation Limits	Dilutions	No issues narrated.
Tentatively Identified Compounds		N/A
Other QC data	GC Dual Column % Difference Criteria <40%	Difference between the two GC columns is greater than 40% for the following: AOC-1B-2-SS1-1 (SB74890-01) Aroclor-1248 **Estimate J**
	Laboratory Duplicate Criteria <30% (lab limits)	None analyzed with this data set.

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB74891
Date Samples Collected: 13-Aug-13
Number of Samples Collected: 3 **Matrix:** Soil
Analysis: SW846 8082A/3540C
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes with the advisories noted below. **Selected data points would be qualified as estimated.** No data were rejected.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Extraction 7 days (aqueous), 14 days (soil); 40 days to analysis (aqueous and soil)	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	% RSD ≤ 20%, "r" ≥ 0.990 % difference or drift ≤ 15%	No issues narrated.
Laboratory Control Samples (Blank Spike)	Percent recovery 40-140%	Meets criteria.
Surrogates	Percent recovery 30-150%	The surrogate recoveries for 4,4-DB-Octafluorobiphenyl (Sr) 4,4-DB-Octafluorobiphenyl (Sr) [2C], Decachlorobiphenyl (Sr), and Decachlorobiphenyl (Sr) [2C] in sample AOC-1B-3-SS3-1 (SB74891-03) are not available due to sample dilution required from high analyte concentration and/or matrix interference. **No qualification**
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 40-140%	None analyzed with this data set.
Quantitation Limits	Dilutions	Sample dilution required for high concentration of target analytes to be within the instrument calibration range. AOC-1B-3-SS3-1 (SB74891-03)
Tentatively Identified Compounds		N/A
Other QC data	GC Dual Column % Difference Criteria <40%	Difference between the two GC columns is greater than 40% for the following: AOC-1B-3-SS2-1 (SB74891-02) Aroclor-1248 **Estimate J**
	Laboratory Duplicate Criteria <30% (lab limits)	None analyzed with this data set.

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB74978
Date Samples Collected: 14-Aug-13
Number of Samples Collected: 7 **Matrix:** Soil
Analysis: SW846 8082A/3540C
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes. **No data were qualified or rejected.**

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Extraction 7 days (aqueous), 14 days (soil); 40 days to analysis (aqueous and soil)	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	% RSD ≤ 20%, "r" ≥ 0.990 % difference or drift ≤ 15%	No issues narrated.
Laboratory Control Samples (Blank Spike)	Percent recovery 40-140%	Meets criteria.
Surrogates	Percent recovery 30-150%	Meets criteria.
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 40-140%	None analyzed with this data set.
Quantitation Limits	Dilutions	The Reporting Limit for sample AOC-2A-2-EB00-1 (SB74978-04) has been raised to account for matrix interference **No qualifications**
Tentatively Identified Compounds		N/A
Other QC data	GC Dual Column % Difference Criteria <40%	No issues narrated.
	Laboratory Duplicate Criteria <30% (lab limits)	None analyzed with this data set.

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB74978
Date Samples Collected: 16-Aug-13
Number of Samples Collected: 1 **Matrix:** Soil
Analysis: SW846 8082A/3540C
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes. **No data were qualified or rejected.**

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Extraction 7 days (aqueous), 14 days (soil); 40 days to analysis (aqueous and soil)	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	% RSD ≤ 20%, "r" ≥ 0.990 % difference or drift ≤ 15%	No issues narrated.
Laboratory Control Samples (Blank Spike)	Percent recovery 40-140%	Meets criteria.
Surrogates	Percent recovery 30-150%	Meets criteria.
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 40-140%	*SB75142-01* MS/MSD - Aroclor-1016 2220%/1830%; Aroclor-1016 [2C] 1840%/2050% RPD OK, no actions since sample matrix interference present. **No qualifications**
Quantitation Limits	Dilutions	Sample dilution required for high concentration of target analytes to be within the instrument calibration range for the following: AOC-2C-WBS02(4)-1
Tentatively Identified Compounds		N/A
Other QC data	GC Dual Column % Difference Criteria <40%	No issues narrated.
	Laboratory Duplicate Criteria <30% (lab limits)	Meets criteria.

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB75252
Date Samples Collected: 19-Aug-13
Number of Samples Collected: 3 **Matrix:** Soil
Analysis: SW846 8082A/3540C
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes. **No data were qualified or rejected.**

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Extraction 7 days (aqueous), 14 days (soil); 40 days to analysis (aqueous and soil)	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	% RSD ≤ 20%, "r" ≥ 0.990 % difference or drift ≤ 15%	No issues narrated.
Laboratory Control Samples (Blank Spike)	Percent recovery 40-140%	Meets criteria.
Surrogates	Percent recovery 30-150%	Meets criteria.
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 40-140%	None analyzed with this data set.
Quantitation Limits	Dilutions	No issues narrated.
Tentatively Identified Compounds		N/A
Other QC data	GC Dual Column % Difference Criteria <40%	No issues narrated.
	Laboratory Duplicate Criteria <30% (lab limits)	None analyzed with this data set.

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB75255
Date Samples Collected: 19-Aug-13
Number of Samples Collected: 3 **Matrix:** Soil
Analysis: SW846 8082A/3540C
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes. **No data were qualified or rejected.**

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Extraction 7 days (aqueous), 14 days (soil); 40 days to analysis (aqueous and soil)	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	% RSD ≤ 20%, "r" ≥ 0.990 % difference or drift ≤ 15%	No issues narrated.
Laboratory Control Samples (Blank Spike)	Percent recovery 40-140%	Meets criteria.
Surrogates	Percent recovery 30-150%	Meets criteria.
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 40-140%	SB75255-02 MS/MSD - Aroclor-1016 337%/444%; Aroclor-1016 [2C] 230%/248% RPD OK, no actions since sample matrix interference is present. **No qualifications**
Quantitation Limits	Dilutions	No issues narrated.
Tentatively Identified Compounds		N/A
Other QC data	GC Dual Column % Difference Criteria <40%	No issues narrated.
	Laboratory Duplicate Criteria <30% (lab limits)	Meets criteria.

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB74436
Date Samples Collected: 6-Aug-13
Number of Samples Collected: 5 **Matrix:** Soil
Analysis: SW846 8270D
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes. **No data were qualified or rejected.**

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Aqueous: 7 days to extraction. 40 days from extraction to analysis. Soil: 14 days to extraction. 40 days from extraction to analysis. Up to one year for samples frozen within 48 hours of collection.	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	ICAL: Full Scan % RSD ≤ 15 or"r" ≥ 0.990 for all compounds except CCC's, which must be ≤ 30% RSD or "r" ≥ 0.990. SIM % RSD ≤30 or "r" ≥ 0.990. CCAL: Full Scan: Percent difference or percent drift (%D) must be ≤20 for CCCs and should be ≤30 for all other compounds. SIM: Percent difference or percent drift (%D) must be should be ≤30 for all compounds	No issues narrated.
Laboratory Control Samples (Blank Spike)	Percent recovery 40-140% for base-neutrals and 30-130% for acid compounds.	Meets criteria.
Surrogates	Soil percent recovery limits lab generated and within 30-130%. Water percent recovery limits lab generated and within 30-130% for base-neutrals, 15-110% for acidic compounds.	No issues narrated.
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 40-140% for base-neutrals and 30-130% for acid compounds. RPD's ≤ 20% for waters and ≤ 30% for soils.	None analyzed with this data set.
Quantitation Limits	Dilutions	(A)The Reporting Limit has been raised to account for the presence of high levels of non-target analytes for the following: AOC-6-SSW (2)-1 for all compounds. **NOTE: All results nondetect; No qualifications** (B)Sample dilution required for high concentration of target analytes to be within the instrument calibration range for the following: AOC-6-BOT(4)-1, AOC-6-NSW(2)-1, AOC-6-ESW(2)-1, AOC-6-WSW(2)-1; **No qualifications**

DATA USABILITY EVALUATION WORKSHEET

Project Name: GHS- MISA - Greenwich, CT
Laboratory: SPECTRUM ANALYTICAL, INC.

Sample Delivery Group Number: SB75141
Date Samples Collected: 16-Aug-13
Number of Samples Collected: 10 **Matrix:** Soil
Analysis: SW846 8270D
Reviewer: Sharon McKechnie

Describe the intended use of the data:

The data will be used for verification of the completion of remediation. The data have met the reasonable confidence requirements. In addition, the data appear valid as reported and may be used for decision making purposes with the advisories noted below. **Selected data points would be qualified as estimated. No data were rejected.**

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection		Complete
Reasonable Confidence Evaluation	You have Reasonable Confidence if the answers to questions 1, 1A, and 1B are Yes.	Meets criteria.
Chain of Custody Evaluation	Analyses agree with COC	COC accompanied samples, analyses and sample IDs agree with COC.
Sample Preservation and Holding Time Evaluation	< 6 ° C Aqueous: 7 days to extraction. 40 days from extraction to analysis. Soil: 14 days to extraction. 40 days from extraction to analysis. Up to one year for samples frozen within 48 hours of collection.	Meets criteria.
Percent Solids	> 30%	Meets criteria.
Field Duplicate	Soils RPD ≤ 50% for results >2x Reporting Limit	Field duplicate not collected.
Method Blank	< RLs	Meets criteria.
Equipment Blanks	< RLs	None submitted with this data set.

Nonconformance DQA Review Elements	Criteria	Briefly Summarize DQA Nonconformances
Initial and Continuing Calibration	ICAL: Full Scan % RSD ≤ 15 or"r" ≥ 0.990 for all compounds except CCC's, which must be ≤ 30% RSD or "r" ≥ 0.990. SIM % RSD ≤30 or "r" ≥ 0.990. CCAL: Full Scan: Percent difference or percent drift (%D) must be ≤20 for CCCs and should be ≤30 for all other compounds. SIM: Percent difference or percent drift (%D) must be should be ≤30 for all compounds	S309920-CCV1 which applies to samples AOC-6-2-NSW1(4)-1, AOC-6-2-NSW2(4)-1, AOC-6-2-SSW2(4)-1, AOC-6-2-WSW2(4)-1, percent difference is outside individual acceptance criteria (20), but within overall method allowances for the following compounds Benzo (b) fluoranthene (24.8%), Benzo (g,h,i) perylene (26.4%), Benzo (k) fluoranthene (33.5%); **Estimate J/UJ**
Laboratory Control Samples (Blank Spike)	Percent recovery 40-140% for base-neutrals and 30-130% for acid compounds.	Meets criteria.
Surrogates	Soil percent recovery limits lab generated and within 30-130%. Water percent recovery limits lab generated and within 30-130% for base-neutrals, 15-110% for acidic compounds.	No issues narrated.
Site Specific Matrix Spikes and Matrix Spike Duplicates	Percent recovery 40-140% for base-neutrals and 30-130% for acid compounds. RPD's ≤ 20% for waters and ≤ 30% for soils.	None analyzed with this data set.
Quantitation Limits	Dilutions	The Reporting Limit has been raised to account for the presence of high levels of non-target analytes for the following: AOC-6-2-WSW1(4)-1 for all compounds. **NOTE: All results nondetect; No qualifications**

Appendix H
MISA As-Builts

MATCHLINE 1.1

MATCHLINE 1.1 1.2

NOTES:
LINER REQUIREMENTS AS FOLLOWS:
–VRV UNITS BOTH SUPPLY AND RETURN AIR NO LINER REQUIRED
–EXHAUST SYSTEMS NO LINER REQUIRED
–DUST COLLECTION SYSTEMS
THESE DUCT SYSTEMS TO BE 100% LINED WITH 2" ACOUSTICAL LINER
–RETURN DUCT FROM AHU–1
–SUPPLY DUCT FROM AHU–1 TO ACOUSTIC PLENUM
–SUPPLY DUCT FROM ACOUSTICAL PLENUM THROUGH WALL INTO AUDITORIUM
–SUPPLY DUCT ASSOCIATED WITH ZONE DAMPER #3 FEEDING AUDITORIUM FROM THE FIRST FLOOR
–SUPPLY DUCT FEEDING THE AUDITORIUM LOBBY, CONTROL ROOM AND COSTUME STORAGE ROOMS
THESE DUCT SYSTEMS TO BE LINED WITH 1" ACOUSTICAL LINER
–SUPPLY DUCTS FROM ZONE DAMPERS #1 & #2 TO BE LINED FOR THE FIRST 10' DOWNSTREAM OF DAMPER
THESE DUCT SYSTEMS TO BE LINED WITH ½" ACOUSTICAL LINER
–TRANSFER DUCTS

60 60.5 PA PA.4 PB PC PC.1 PC.4 PC.6 PD PE PF PG

51'–4" 53'–10" 53'–10" 53'–10" 52'–5" 50'–6" 51'–6"

VRV–6 VRV–15 VRV–16

STAIR A 126.1

LOBBY 260

COSTUME STORAGE 105

ORCHESTRA LEVEL 105

H–8x5 50/FT TYP OF 2

8x8 SA UP W/MOD AND INTAKE HOOD

A–8x8 600 CFM

A–6x6 150 CFM

DN UP H

MATCHLINE 1.1 1.3

SYMBOL LEGEND

DUCT
FT – FLAT ON TOP
FB – FLAT ON BOT
TU/BU – TOP UP/BOT UP
TD/BD – TOP DN/BOT DN
1x2'–0" – TOP OF DUCT
8x4'–0" – BOT OF DUCT

DAMPERS
FD – FIRE
FSD – FIRE/SMOKE
SD – SMOKE
BD – BAROMETRIC
BOD – BACKDRAFT
VCD – VOLUME/OPPOSED BLADE
OSD – VOLUME/SINGLE BLADE
MD – MOTORIZED
MOD – MOTORIZED ISOLATED/REMOTE
DOD – DOUBLE ISOLATED
SPD – SPLITTER

FERGUSON
CONTRACTORS ✱ SINCE, 1925
112 Northwest Dr., P.O. Box 430 Plainville, CT. 06062
Telephone (860) 747–4286

COMPOSITE COORDINATION

	DATE	SIGN–OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
O.C.		

GREENWICH H/S
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830

N

KEY PLAN

REV.	DATE	DESCRIPTION	BY
1	08.10.16	AS-BUILT DRAWING	JSC

SCALE 1/4"=1'–0" | DRAWN BY JSC | CHECK BY

TITLE
GROUND LEVEL SHEET METAL PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
SM–1.1

DATE 05–19–14 | JOB #

AS-BUILT DRAWING

MATCHLINE

1.1 1.2

MATCHLINE

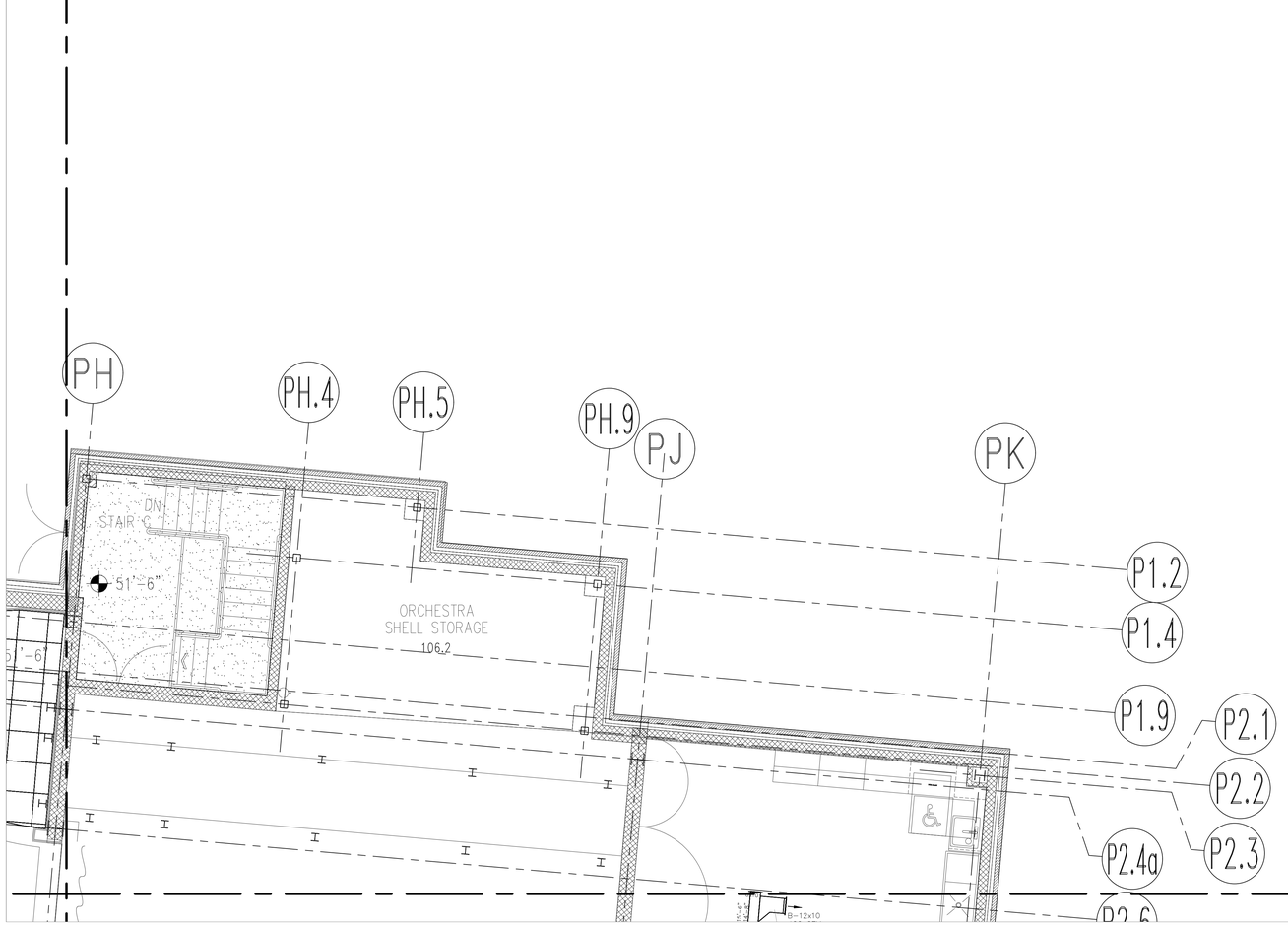
1.2

NOTES:
LINER REQUIREMENTS AS FOLLOWS:
- –VRV UNITS BOTH SUPPLY AND RETURN AIR NO LINER REQUIRED
- –EXHAUST SYSTEMS NO LINER REQUIRED
- –DUST COLLECTION SYSTEMS

THESE DUCT SYSTEMS TO BE 100% LINED WITH 2" ACOUSTICAL LINER
- –RETURN DUCT FROM AHU–1
- –SUPPLY DUCT FROM AHU–1 TO ACOUSTIC PLENUM
- –SUPPLY DUCT FROM ACOUSTICAL PLENUM THROUGH WALL INTO AUDITORIUM
- –SUPPLY DUCT ASSOCIATED WITH ZONE DAMPER #3 FEEDING AUDITORIUM FROM THE FIRST FLOOR
- –SUPPLY DUCT FEEDING THE AUDITORIUM LOBBY, CONTROL ROOM AND COSTUME STORAGE ROOMS

THESE DUCT SYSTEMS TO BE LINED WITH 1" ACOUSTICAL LINER
- –SUPPLY DUCTS FROM ZONE DAMPERS #1 & #2 TO BE LINED FOR THE FIRST 10' DOWNSTREAM OF DAMPER

THESE DUCT SYSTEMS TO BE LINED WITH ½" ACOUSTICAL LINER
- –TRANSFER DUCTS



AS-BUILT DRAWING

MATCHLINE

1.2

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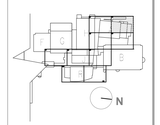
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
O.C.		

SYMBOL LEGEND

DUCT
- FT – FLAT ON TOP
- FB – FLAT ON BOT
- TU/BU – TOP UP/BOT UP
- TD/BD – TOP DN/BOT DN
- 14x12 – TOP OF DUCT
- 8x12–B – BOT OF DUCT

DAMPERS
- FD – FIRE/SMOKE
- FSD – FIRE/SMOKE
- SD – SMOKE
- MD – MOTORIZED
- BD – BACKDRAFT
- VCD – VOLUME/OPPOSED BLADE
- CRD – VOLUME/SINGLE BLADE
- MD – MOTORIZED
- MD – NORMALLY OPERATED/REMOTE
- DPD – DIFFUSER
- SPD – SPLITTER



KEY PLAN
SCALE: NOT TO SCALE

REVISIONS

REV.	DATE	DESCRIPTION	BY
1	08.10.16	AS-BUILT DRAWING	JSC

SCALE: 1/4"=1'-0" | DRAWN BY: JSC | CHECK BY:

TITLE
GROUND LEVEL SHEET METAL PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
SM–1.2

DATE: 05–19–14 | JOB #: MTGC213C

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10 HILLSIDE RD GREENWICH, CT 06830

NOTES:
LINER REQUIREMENTS AS FOLLOWS:
-VRV UNITS BOTH SUPPLY AND RETURN AIR NO LINER REQUIRED
-EXHAUST SYSTEMS NO LINER REQUIRED
-DUST COLLECTION SYSTEMS
THESE DUCT SYSTEMS TO BE 100% LINED WITH 2" ACOUSTICAL LINER
-RETURN DUCT FROM AHU-1
-SUPPLY DUCT FROM AHU-1 TO ACOUSTIC PLENUM
-SUPPLY DUCT FROM ACOUSTICAL PLENUM THROUGH WALL INTO AUDITORIUM
-SUPPLY DUCT ASSOCIATED WITH ZONE DAMPER #3 FEEDING AUDITORIUM FROM THE FIRST FLOOR
-SUPPLY DUCT FEEDING THE AUDITORIUM LOBBY, CONTROL ROOM AND COSTUME STORAGE ROOMS
THESE DUCT SYSTEMS TO BE LINED WITH 1" ACOUSTICAL LINER
-SUPPLY DUCTS FROM ZONE DAMPERS #1 & #2 TO BE LINED FOR THE FIRST 10' DOWNSTREAM OF DAMPER
THESE DUCT SYSTEMS TO BE LINED WITH ½" ACOUSTICAL LINER
-TRANSFER DUCTS

TYPE D NOZZLE
20"ø
650 CFM
TYP OF 22
MOUNTED @ 63'-7"

AS-BUILT DRAWING

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112 Northwest Dr., P.O. Box 430 Plainville, CT. 06062
Telephone (860) 747-4586

COMPOSITE COORDINATION

	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
C.C.		

SYMBOL LEGEND

DAMPERS

FD - FIRE DAMPER
FSD - FIRE/SMOKE
SD - SMOKE
MD - MANUAL BALANCING
BDD - BACKDRAFT
MBD - MOTORIZED OPPOSED BLADE
ODD - VOLUME/SINGLE BLADE
MD - MOTORIZED
SD - SMOKE (RATED)/PRIVATE
SPD - SPLITTER

DUCT

FD - FLAT ON TOP
FB - FLAT ON BOTTOM
TD/RD - TOP OF/RIGHT UP
TB/LD - BOTTOM OF/LEFT DOWN
14x12" - TOP OF DUCT
14x12" - BOTTOM OF DUCT

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KEY PLAN
SCALE: NOT TO SCALE

REV	DATE	DESCRIPTION	BY
1	08.10.16	AS-BUILT DRAWING	JSC

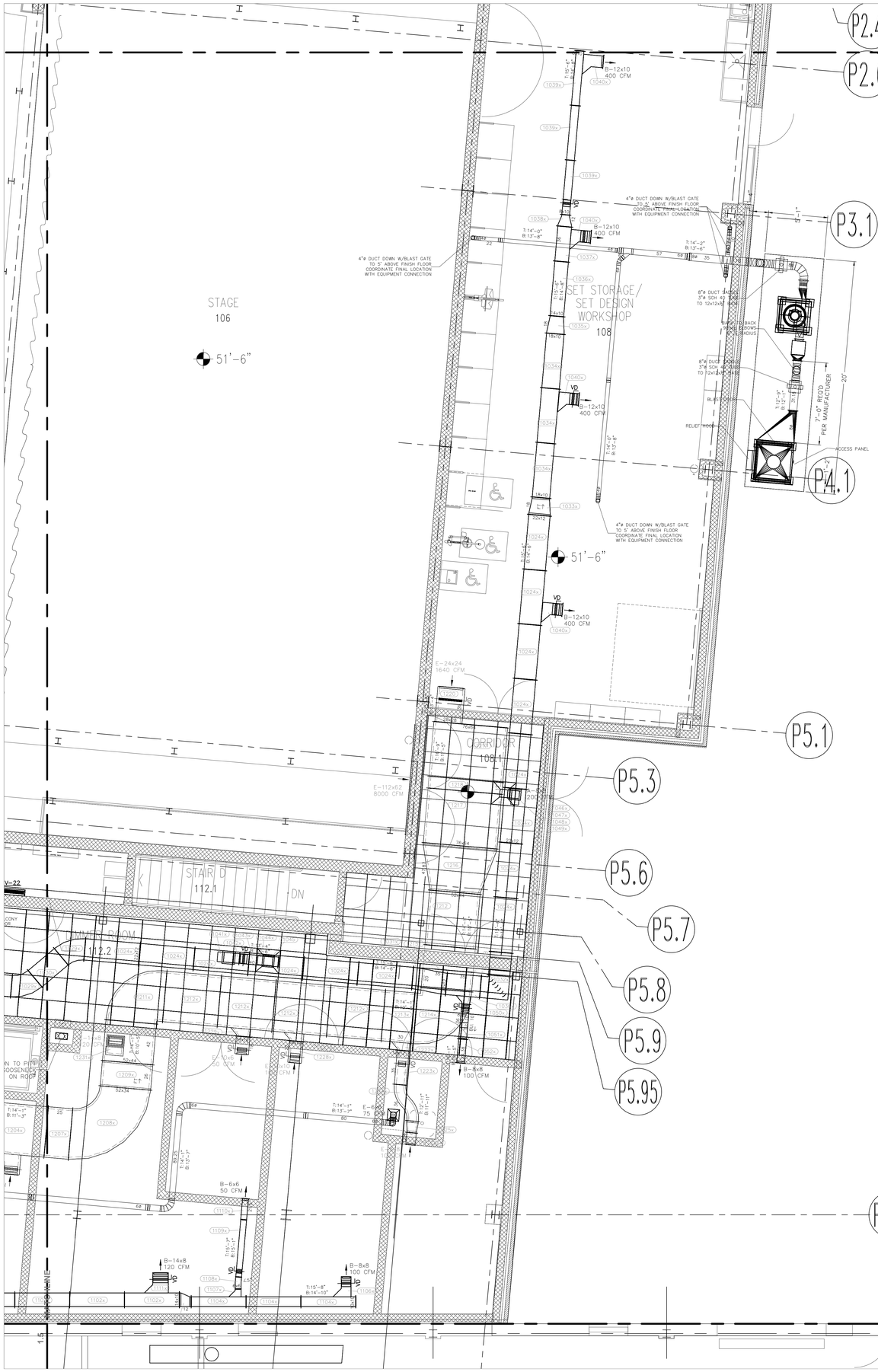
SCALE	DRAWN BY	CHECK BY
SM-1.3	JSC	

TITLE
GROUND LEVEL SHEET METAL PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
SM-1.3

DATE	JOB #
05-19-14	MTCC213C



NOTES:
LINER REQUIREMENTS AS FOLLOWS:
- –VRV UNITS BOTH SUPPLY AND RETURN AIR NO LINER REQUIRED
- –EXHAUST SYSTEMS NO LINER REQUIRED
- –DUST COLLECTION SYSTEMS

THESE DUCT SYSTEMS TO BE 100% LINED WITH 2" ACOUSTICAL LINER
- –RETURN DUCT FROM AHU–1
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- –SUPPLY DUCT FROM ACOUSTICAL PLENUM THROUGH WALL INTO AUDITORIUM
- –SUPPLY DUCT ASSOCIATED WITH ZONE DAMPER #3 FEEDING AUDITORIUM FROM THE FIRST FLOOR
- –SUPPLY DUCT FEEDING THE AUDITORIUM LOBBY, CONTROL ROOM AND COSTUME STORAGE ROOMS

THESE DUCT SYSTEMS TO BE LINED WITH 1" ACOUSTICAL LINER
- –SUPPLY DUCTS FROM ZONE DAMPERS #1 & #2 TO BE LINED FOR THE FIRST 10' DOWNSTREAM OF DAMPER

THESE DUCT SYSTEMS TO BE LINED WITH ½" ACOUSTICAL LINER
- –TRANSFER DUCTS

AS-BUILT DRAWING

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COMPOSITE COORDINATION

	DATE	SIGN–OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

DUCT
- FD – FLAT ON TOP
- FB – FLAT ON BOTTOM
- TU/BU – TOP UP/BOT UP
- TD/BD – TOP DN/BOT DN
- 14x2"–T – TOP OF DUCT
- 8x12"–B – BOT OF DUCT

DAMPERS
- FSD – FIRE/SMOKE
- FD – FIRE
- SD – SMOKE
- MOD – MOTORIZED
- BBD – BACKDRAFT
- OBD – OPPOSED BLADE
- VCD – VOLUME/CIRCLE BLADE
- OBD – VOLUME/SINGLE BLADE
- MD – MOTORIZED
- MOD – MOTORIZED ISOLATED/REMOTE
- SPD – SPLITTER
- – GRILLE
- – DIFFUSER
- – SPLITTER

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KEY PLAN

REV.	DATE	DESCRIPTION	BY
1	08.10.16	AS-BUILT DRAWING	JSC

SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"	JSC	

TITLE
GROUND LEVEL SHEET METAL PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
SM–1.4

DATE	JOB #
05–19–14	MTCC213C

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COMPOSITE COORDINATION

	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
O.C.		

NOTES:
LINER REQUIREMENTS AS FOLLOWS:
- –VRV UNITS BOTH SUPPLY AND RETURN AIR NO LINER REQUIRED
- –EXHAUST SYSTEMS NO LINER REQUIRED
- –DUST COLLECTION SYSTEMS

THESE DUCT SYSTEMS TO BE 100% LINED WITH 2" ACOUSTICAL LINER
- –RETURN DUCT FROM AHU–1
- –SUPPLY DUCT FROM AHU–1 TO ACOUSTIC PLENUM
- –SUPPLY DUCT FROM ACOUSTICAL PLENUM THROUGH WALL INTO AUDITORIUM
- –SUPPLY DUCT ASSOCIATED WITH ZONE DAMPER #3 FEEDING AUDITORIUM FROM THE FIRST FLOOR
- –SUPPLY DUCT FEEDING THE AUDITORIUM LOBBY, CONTROL ROOM AND COSTUME STORAGE ROOMS

THESE DUCT SYSTEMS TO BE LINED WITH 1" ACOUSTICAL LINER
- –SUPPLY DUCTS FROM ZONE DAMPERS #1 & #2 TO BE LINED FOR THE FIRST 10' DOWNSTREAM OF DAMPER

THESE DUCT SYSTEMS TO BE LINED WITH ½" ACOUSTICAL LINER
- –TRANSFER DUCTS

SYMBOL LEGEND

DAMPERS
- FD – FIRE/SMOKE
- FSD – SMOKE
- FD – FIRE/THERMATIC
- BD – BACKDRAFT
- MBD – MOTORIZED OPPOSED BLADE
- OBD – VOLUME/SINGLE BLADE
- MD – MOTORIZED
- MOD – MOTORIZED ISOLATED/PRIVATE
- SPD – SPLITTER

DUCT
- FT – FLAT ON TOP
- FB – FLAT ON BOTTOM
- TI/RH – TOP OF/RECT UP
- TO/RH – TOP OF/RECT DN
- 14x12 – TOP OF DUCT
- 8x12 – BOT OF DUCT

GREENWICH H/S
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830

KEY PLAN

REVISIONS			
REV.	DATE	DESCRIPTION	BY
1	08.10.16	AS-BUILT DRAWING	JSC

SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"	JSC	

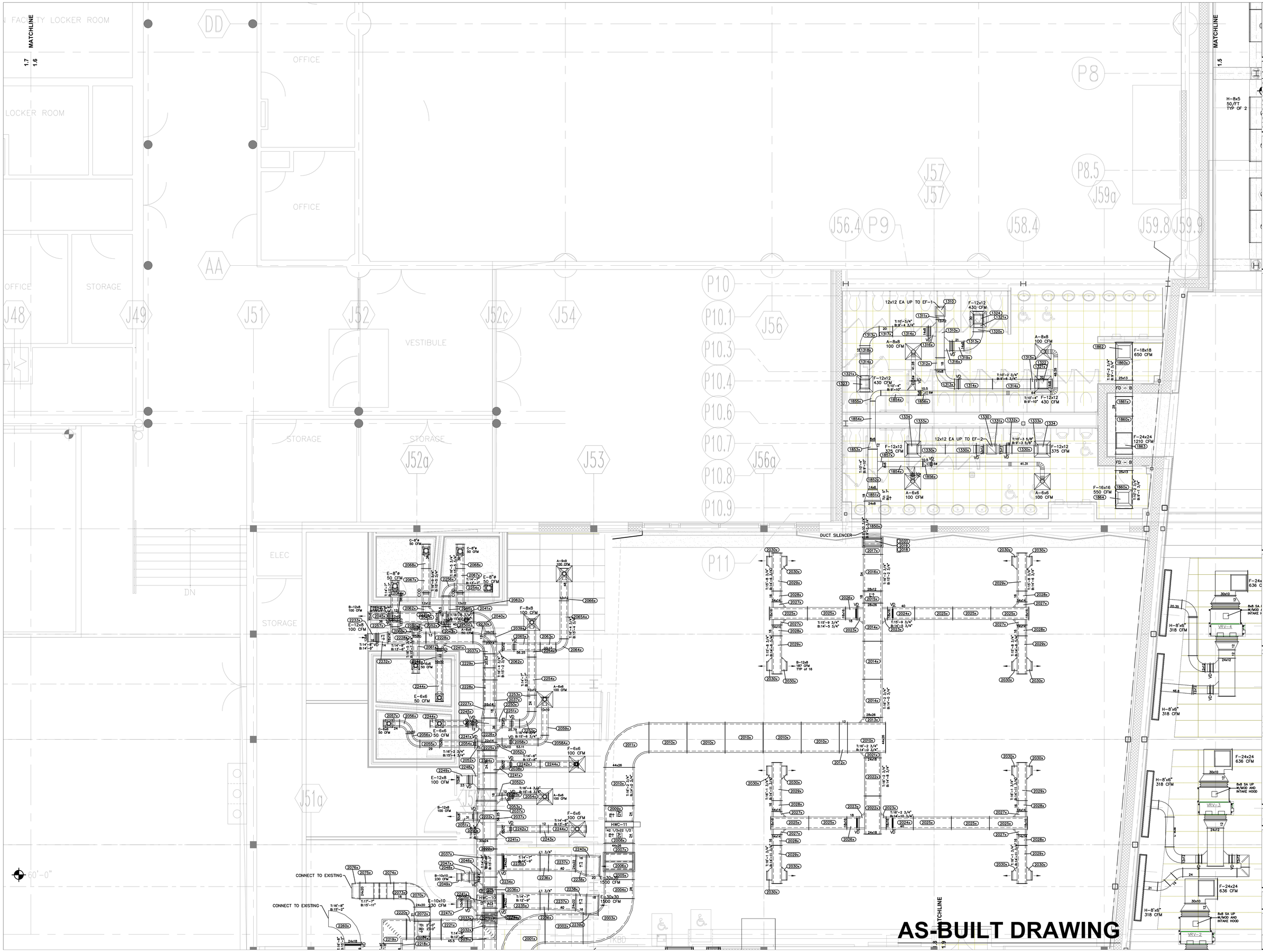
TITLE
GROUND LEVEL SHEET METAL PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
SM-1.5

DATE	JOB #
05-19-14	MTCC213C

AS-BUILT DRAWING



AS-BUILT DRAWING

FERGUSON
CONTRACTORS # SINCE, 1925
112 Northwest Dr., P.O. Box 430, Plainville, CT. 06062
Telephone (860) 747–4586

COMPOSITE COORDINATION

	DATE	SIGN–OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

DUCT
T – FLAT ON TOP
FB – FLAT ON BOT
T1/2B1 – TOP 1/2"BOT UP
B1/2T – BOT 1/2" TOP DN
1'x2'–0" – TOP OF DUCT
8'x2'–0" – BOT OF DUCT

DAMPERS
FD – FIRE/SMOKE
FSD – SMOKE
BD – BACKDRAFT
BDO – BACKDRAFT
VD – VOLUME/OPPOSED BLADE
OBD – VOLUME/SINGLE BLADE
MD – MOTORIZED
CD – CEILING/OPERATED/REMOTE
SPD – SPLITTER

KEY PLAN
SCALE: NOT TO SCALE

REVISIONS			
REV	DATE	DESCRIPTION	BY
1	08.10.15	AS–BUILT DRAWING	JSC

SCALE 1/4"=1'–0" | DRAWN BY | CHECK BY

TITLE
GROUND LEVEL SHEET METAL PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
SM–1.6

DATE 09–17–13 | JOB # MTCC213C

GREENWICH H/S
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830

MATCHLINE 1.7

INSTRUCTOR

SHOWER

TOILET

TOILET

MEN FACULTY L

MATCHLINE 1.7 1.6

SHOWER

SHOWER

TOILET

WOMEN FACULTY LOCKER RO

WOMENS LOCKER ROOM

OFFICE

EQUIPMENT

VEST

UP

44 45 J46a J47 J48

JY

JX

JW

STAIRS

TOILETS

JV

JU.5

JU

JT

JS.7

60'-0"

JS

MATCHLINE 1.8

MATCHLINE 1.7

AS-BUILT DRAWING

SYMBOL LEGEND

DAMPERS

FD - FIRE DAMPER
FSD - FIRE/SMOKE
SD - SMOKE
BD - BACKDRAFT
BBD - BACKDRAFT/OPPOSED BLADE
VCD - VOLUME/OPPOSED BLADE
OBD - VOLUME/SINGLE BLADE
MD - MOTORIZED
MOD - MOTORIZED DAMPER
SPD - SPLITTER

DUCT

FD - FLAT ON TOP
FB - FLAT ON BOTTOM
TU/BU - TOP UP/BOT UP
TD/BD - TOP DN/BOT DN
THUT - TOP OF DUCT
BHUT - BOT OF DUCT

FERGUSON
CONTRACTORS ★ SINCE, 1925
112 Northwest Dr., P.O. Box 430 Plainville, CT. 06062
Telephone (860) 747-4566

COMPOSITE COORDINATION

	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
C.C.		

GREENWICH H'S
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830

KEY PLAN
NOT TO SCALE

REV.	DATE	DESCRIPTION	BY
1	08.10.16	AS-BUILT DRAWING	JSC

REVISIONS

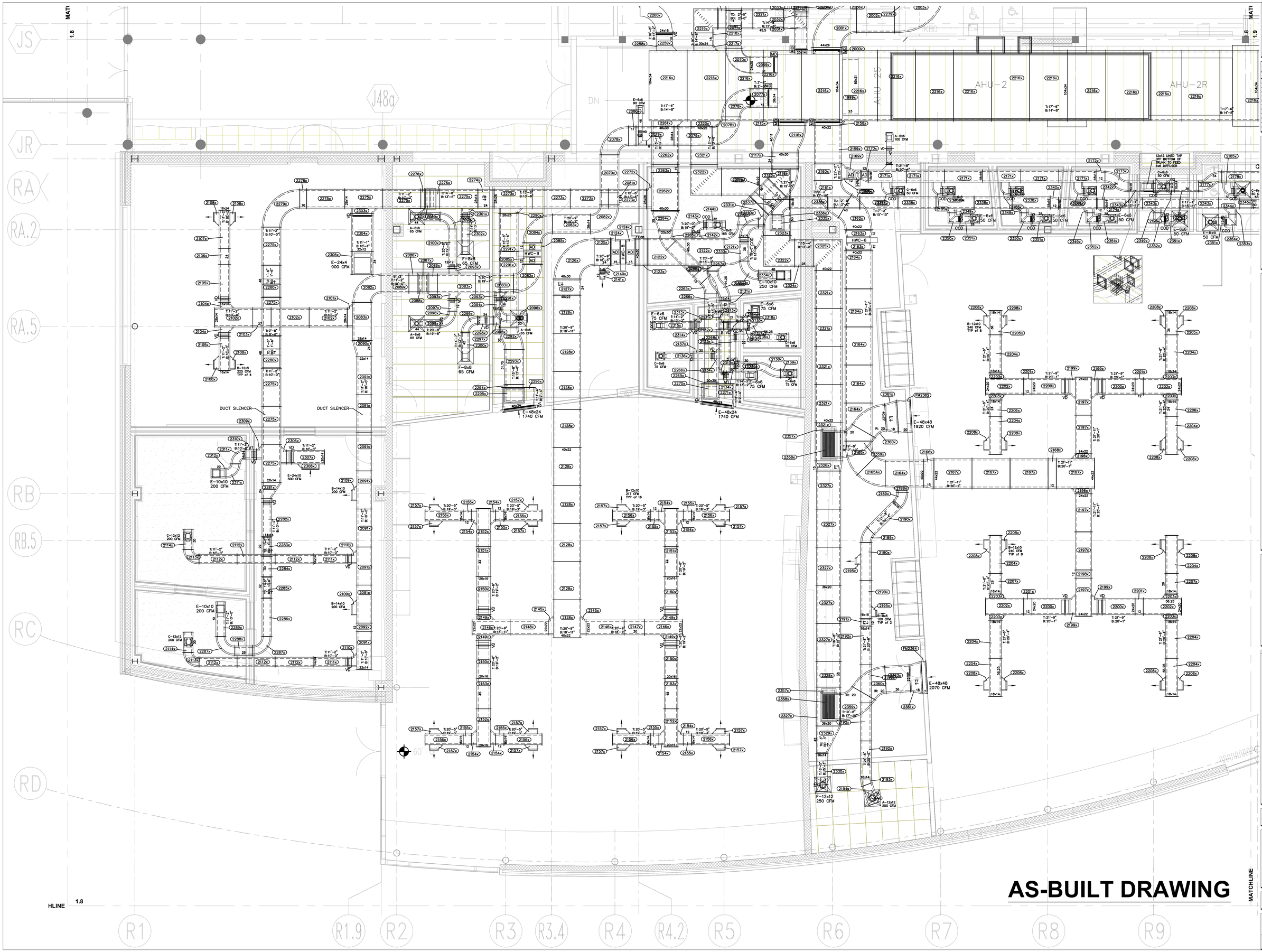
SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"		

TITLE
GROUND LEVEL SHEET METAL PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
SM-1.7

DATE	JOB #
09-17-13	MTCC213C



AS-BUILT DRAWING

FERGUSON
CONTRACTORS # SINCE, 1925
112 Northwest Dr., P.O. Box 430, Plainville, CT. 06062
Telephone (860) 747-4586

COMPOSITE COORDINATION	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

DAMPERS

DUCT
T - FLAT ON TOP
TD - FLAT ON BOT
TU/BU - TOP W/ BOT UP
TD/BD - TOP W/ BOT DN
1x2'-0" - TOP OF DUCT
1x2'-0" - BOT OF DUCT
8x12'-0"

FD - FIRE
FSD - FIRE/SMOKE
SD - SMOKE
VCD - CURTAIN TYPE
BBD - BACKDRAFT
OBD - OPPOSED BLADE
CBD - VOLUME/SINGLE BLADE
MD - MOTORIZED
MOD - MOTORIZED/RELATED/REMOTE
SPD - SPLITTER

KEY PLAN
SCALE: NOT TO SCALE

REVISIONS			
REV.	DATE	DESCRIPTION	BY
1	08.10.16	AS-BUILT DRAWING	JSC

SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"	JSC	

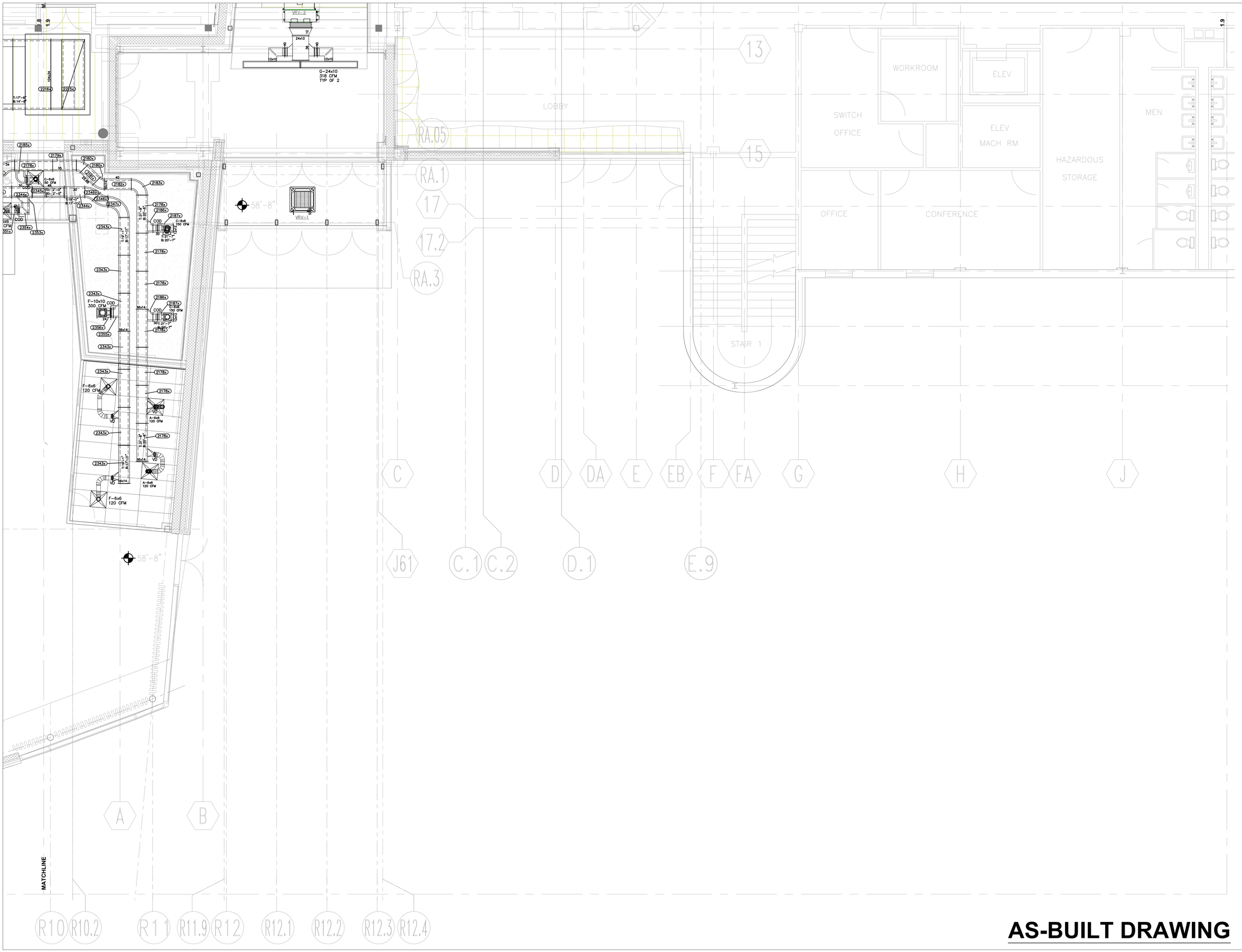
TITLE
GROUND LEVEL SHEET METAL PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
SM-1.8

DATE	JOB #
9-25-15	MTCC213C

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830



AS-BUILT DRAWING

FERGUSON
CONTRACTORS # SINCE, 1925
112 Northwest Dr., P.O. Box 430, Plainville, CT. 06062
Telephone (860) 747-4286

COMPOSITE COORDINATION

	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

DAMPERS

FD - FIRE/SMOKE
FSD - FIRE
SD - SMOKE
BD - BACKDRAFT
BOD - BACKDRAFT OPPOSED BLADE
ODD - VOLUME/SINGLE BLADE
MD - MOTORIZED
MOD - MOTORIZED OPPOSED/REMOTE
DD - DIFFUSER
SPD - SPLITTER

DUCT

T - FLAT ON TOP
FB - FLAT ON BOT
TI/BI - TOP W/ BOT UP
TD/BD - TOP W/ BOT DN
1'-0" - TOP OF DUCT
8'-0" - BOT OF DUCT

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830

KEY PLAN
SCALE: NOT TO SCALE

REVISIONS

REV.	DATE	DESCRIPTION	BY
1	08.10.16	AS-BUILT DRAWING	JSC

SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"	JSC	

TITLE
GROUND LEVEL SHEET METAL PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
SM-1.9

DATE	JOB #
09-25-15	MTCC213C

PC PC.1 PC.4 PC.6 PD PE PF PG

P1.9 P2.4 P2.5 P2.9 P3.5 P3.6 P3.7 P4.4 P4.7 P5.4 P5.5 P5.8 P5.9

48x34 SA UP TO MEZZANINE TRANSITION TO 34x48 IN RISER

44x30 SA UP TO MEZZANINE

30"Wx5'-6"Hx20'-0"L ACOUSTICAL PANEL SUPPLY PLENUM

12x24 CONCRETE SLAB OPENING INTO ARCHITECTURAL PLENUM BELOW. TYPICAL OF 13

6' TALL SUPPLY PLENUM

NOTES:
LINER REQUIREMENTS AS FOLLOWS:
-VRV UNITS BOTH SUPPLY AND RETURN AIR NO LINER REQUIRED
-EXHAUST SYSTEMS NO LINER REQUIRED
-DUST COLLECTION SYSTEMS
THESE DUCT SYSTEMS TO BE 100% LINED WITH 2" ACOUSTICAL LINER
-RETURN DUCT FROM AHU-1
-SUPPLY DUCT FROM AHU-1 TO ACOUSTIC PLENUM
-SUPPLY DUCT FROM ACOUSTICAL PLENUM THROUGH WALL INTO AUDITORIUM
-SUPPLY DUCT ASSOCIATED WITH ZONE DAMPER #3 FEEDING AUDITORIUM FROM THE FIRST FLOOR
-SUPPLY DUCT FEEDING THE AUDITORIUM LOBBY, CONTROL ROOM AND COSTUME STORAGE ROOMS
THESE DUCT SYSTEMS TO BE LINED WITH 1" ACOUSTICAL LINER
-SUPPLY DUCTS FROM ZONE DAMPERS #1 & #2 TO BE LINED FOR THE FIRST 10' DOWNSTREAM OF DAMPER
THESE DUCT SYSTEMS TO BE LINED WITH ½" ACOUSTICAL LINER
-TRANSFER DUCTS

NO CEILING EXPOSED STRUCTURE

MEZZANINE LOBBY 201 437 SF

MEZZANINE 202 2217 SF

GYP BRD VARIES

NO CEILING EXPOSED STRUCTURE

STAIR B 201.2 266 SF

NO CEILING EXPOSED STRUCTURE

OPEN TO AUDITORIUM BELOW

OPEN TO STAGE

ELEV A

TYPE A 10"ø 160 CFM TYP OF 2

TYPE A 10"ø 260 CFM TYP OF 2

TYPE A 12"ø 350CFM TYP OF 4 MOUNTED @ 7'6"±0"

34x28 SA UP TO MEZZANINE

30x32 SA UP TO MEZZANINE

NOTE: ACCESS TO FIRE DAMPER REQUIRED DUE TO 13'-0" HIGH INSTALLATION ABOVE THE ROOF.

NOTE: ACCESS TO FIRE DAMPER REQUIRED DUE TO 20'-0" HIGH INSTALLATION ABOVE THE ROOF.

12'x8'x8' TALL

30"W x5'-6"Hx20'-0"L ACOUSTICAL PANEL SUPPLY PLENUM

12x24 CONCRETE SLAB OPENING INTO ARCHITECTURAL PLENUM BELOW. TYPICAL OF 13

6' TALL SUPPLY PLENUM

76x40 RETURN UP TO BOTTOM OF RA PLENUM SMOKE DETECTOR IN RISE

52x32 SA DOWN TO SUPPLY AIR PLENUM

AHU-1R

9'x3'-8'x0' TALL ACOUSTICAL PLENUM

NOTE: RETURN SOUND ATTENUATOR

60x42 SA UP TO BALCONY AND DOWN FIRST FLOOR

2.1 MATCHLINE 2.2

NOTE: PLAN VIEW IS ROTATE 355 DEGREES DIFFERENCE FROM CONTRACT DRAWING

AS-BUILT DRAWING

SYMBOL LEGEND

DAMPERS
FD - FIRE/SMOKE
FSD - SMOKE
SD - SMOKE DETEC
BD - BACKDRAFT
VCD - VOLUME/OPPOSED BLADE
DBD - VOLUME/SINGLE BLADE
MD - MOTORIZED
SPD - SPLITTER

DUCT
FT - FLAT ON TOP
FB - FLAT ON BOT
TU/BU - TOP UP/BOT UP
TD/BD - TOP DN/BOT DN
1x0'-0" - TOP OF DUCT
3x0'-0" - BOT OF DUCT

FERGUSON
CONTRACTORS # SINCE, 1925
112 Northwest Dr. P.O. Box 450 Plainville, CT. 06062
Telephone (860) 747-4586

COMPOSITE COORDINATION

	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

KEY PLAN
SCALE: NOT TO SCALE

REV.	DATE	DESCRIPTION	BY
1	08.10.16	AS-BUILT DRAWING	JSC

REVISIONS

SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"	JSC	

TITLE
MEZZANINE SHEET METAL PLAN

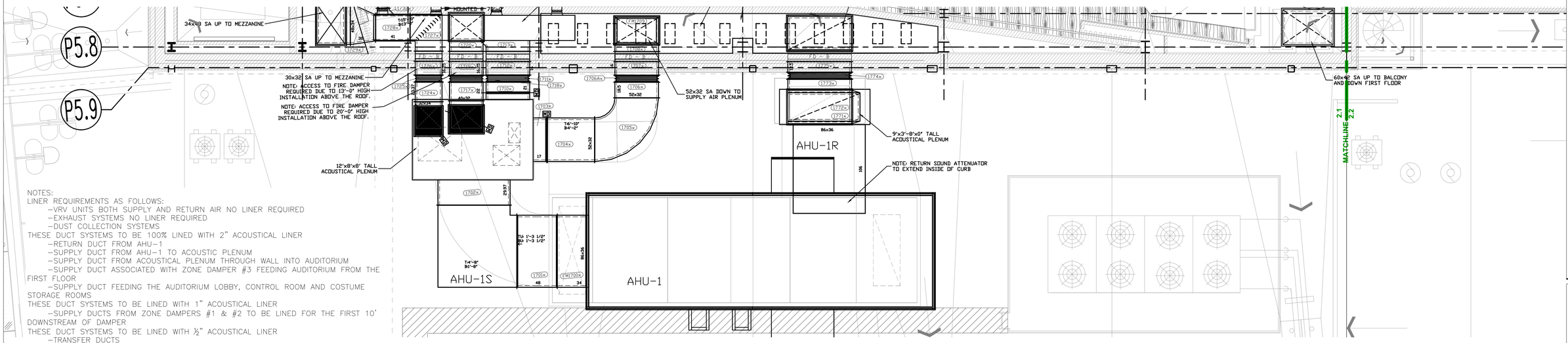
CONTRACT DRAWING NO.

SHOP DRAWING NO.
SM-2.1

DATE	JOB #
01-15-14	MTCC213C

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830

NOTE: PLAN VIEW IS ROTATE 5 DEGREES
DIFFERENCE FROM CONTRACT DRAWING



NOTES:
LINER REQUIREMENTS AS FOLLOWS:
- –VRV UNITS BOTH SUPPLY AND RETURN AIR NO LINER REQUIRED
- –EXHAUST SYSTEMS NO LINER REQUIRED
- –DUST COLLECTION SYSTEMS

THESE DUCT SYSTEMS TO BE 100% LINED WITH 2" ACOUSTICAL LINER
- –RETURN DUCT FROM AHU–1
- –SUPPLY DUCT FROM AHU–1 TO ACOUSTIC PLENUM
- –SUPPLY DUCT FROM ACOUSTICAL PLENUM THROUGH WALL INTO AUDITORIUM
- –SUPPLY DUCT ASSOCIATED WITH ZONE DAMPER #3 FEEDING AUDITORIUM FROM THE FIRST FLOOR
- –SUPPLY DUCT FEEDING THE AUDITORIUM LOBBY, CONTROL ROOM AND COSTUME STORAGE ROOMS

THESE DUCT SYSTEMS TO BE LINED WITH 1" ACOUSTICAL LINER
- –SUPPLY DUCTS FROM ZONE DAMPERS #1 & #2 TO BE LINED FOR THE FIRST 10' DOWNSTREAM OF DAMPER

THESE DUCT SYSTEMS TO BE LINED WITH ½" ACOUSTICAL LINER
- –TRANSFER DUCTS

AS-BUILT DRAWING

FERGUSON
CONTRACTORS # SINCE, 1923
112 Northwest Dr. P.O. Box 430 Plainville, CT. 06062
Telephone (860) 747-4586

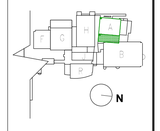
COMPOSITE COORDINATION		
	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

DUCT
- FT - FLAT ON TOP
- FB - FLAT ON BOT
- TU/BU - TOP/BOT UP
- TD/BD - TOP/BOT DN
- 1'-0" - TOP OF DUCT
- 8'-0" - BOT OF DUCT

DAMPERS
- FD - FIRE/SMOKE
- FSD - SMOKE
- SD - SMOKE/FIRE
- BSD - BACKDRAFT
- VCD - VOLUME/OPPOSED BLADE
- CSD - VOLUME/SINGLE BLADE
- MD - MOTORIZED
- SPD - SPLITTER

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830



REVISIONS			
REV.	DATE	DESCRIPTION	BY
1	08.10.16	AS-BUILT DRAWING	JSC

SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"	JSC	

TITLE
MEZZANINE SHEET METAL PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
SM-2.2

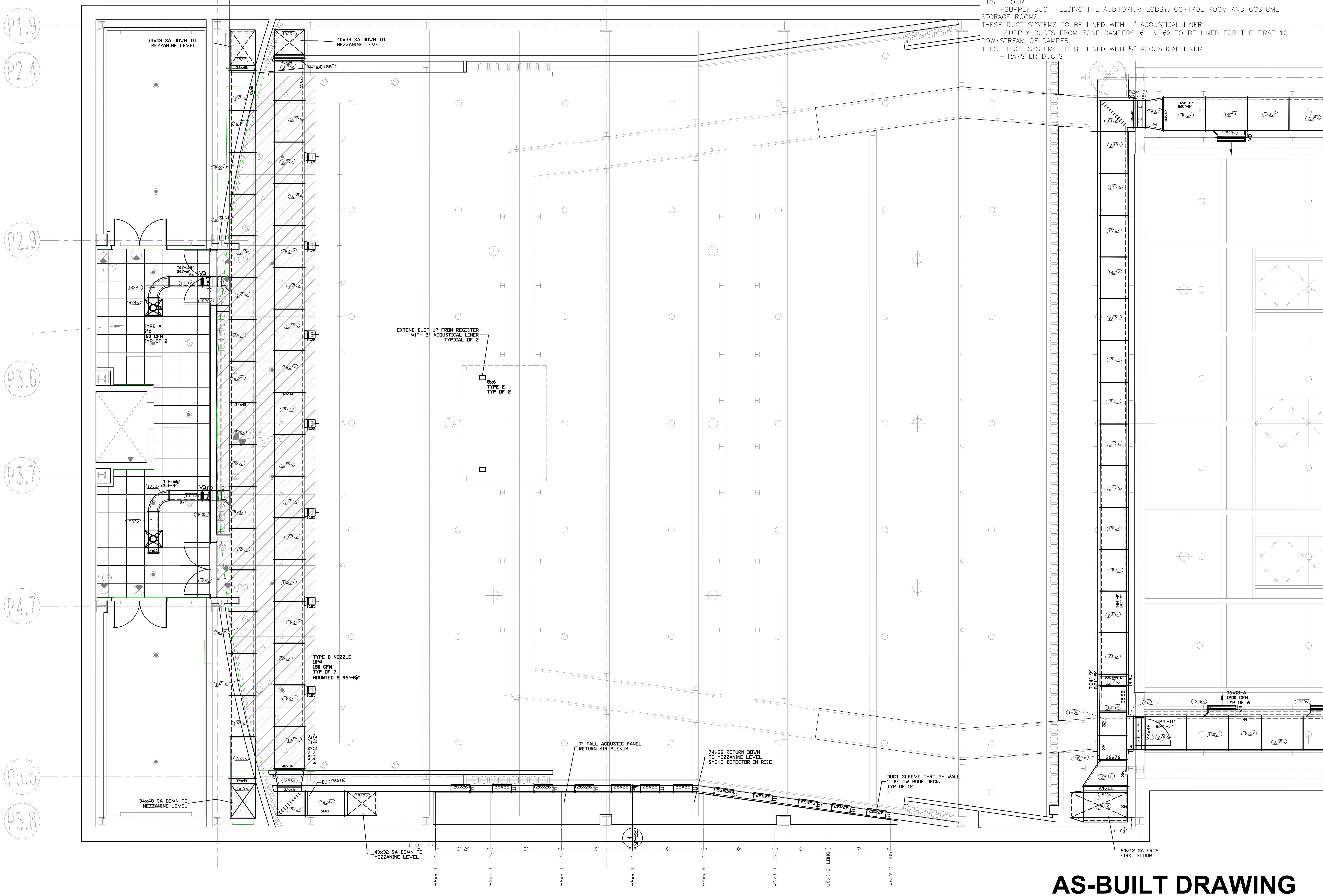
DATE	JOB #
01-15-14	MTCC213C

NOTES:
LINER REQUIREMENTS AS FOLLOWS:
- VRV UNITS BOTH SUPPLY AND RETURN AIR NO LINER REQUIRED
- EXHAUST SYSTEMS NO LINER REQUIRED
- DUST COLLECTION SYSTEMS

THESE DUCT SYSTEMS TO BE 100% LINED WITH 2" ACOUSTICAL LINER
- RETURN DUCT FROM AHU-1
- SUPPLY DUCT FROM AHU-1 TO ACOUSTIC PLENUM
- SUPPLY DUCT FROM ACOUSTICAL PLENUM THROUGH WALL INTO AUDITORIUM
- SUPPLY DUCT ASSOCIATED WITH ZONE DAMPER #3 FEEDING AUDITORIUM FROM THE FIRST FLOOR
- SUPPLY DUCT FEEDING THE AUDITORIUM LOBBY, CONTROL ROOM AND COSTUME STORAGE ROOMS

THESE DUCT SYSTEMS TO BE LINED WITH 1" ACOUSTICAL LINER
- SUPPLY DUCTS FROM ZONE DAMPERS #1 & #2 TO BE LINED FOR THE FIRST 10' DOWNSTREAM OF DAMPER

THESE DUCT SYSTEMS TO BE LINED WITH ½" ACOUSTICAL LINER
- TRANSFER DUCTS



AS-BUILT DRAWING

NOTE: PLAN VIEW IS ROTATE 355 DEGREES DIFFERENCE FROM CONTRACT DRAWING

FERGUSON
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112 Northwest Dr. P.O. Box 430 Plainville, CT. 06062
Telephone (860) 747-4566

COMPOSITE COORDINATION		
	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

DUCT
- FT - FLAT ON TOP
- FB - FLAT ON BOT
- TU/BU - TOP UP/BOT UP
- TD/BD - TOP DN/BOT DN
- T=0'-0" - TOP OF DUCT
- B=0'-0" - BOT OF DUCT

DAMPERS
- FD - FIRE
- FSD - FIRE/SMOKE
- SD - SMOKE
- BD - BAROMETRIC
- BDD - BACKDRAFT
- VDO - VOLUME/OPPOSED BLADE
- OBD - VOLUME/SINGLE BLADE
- MD - MOTORIZED
- SPD - SPLITTER

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830

KEY PLAN

REV.	DATE	DESCRIPTION	BY
1	08.10.16	AS-BUILT DRAWING	JSC

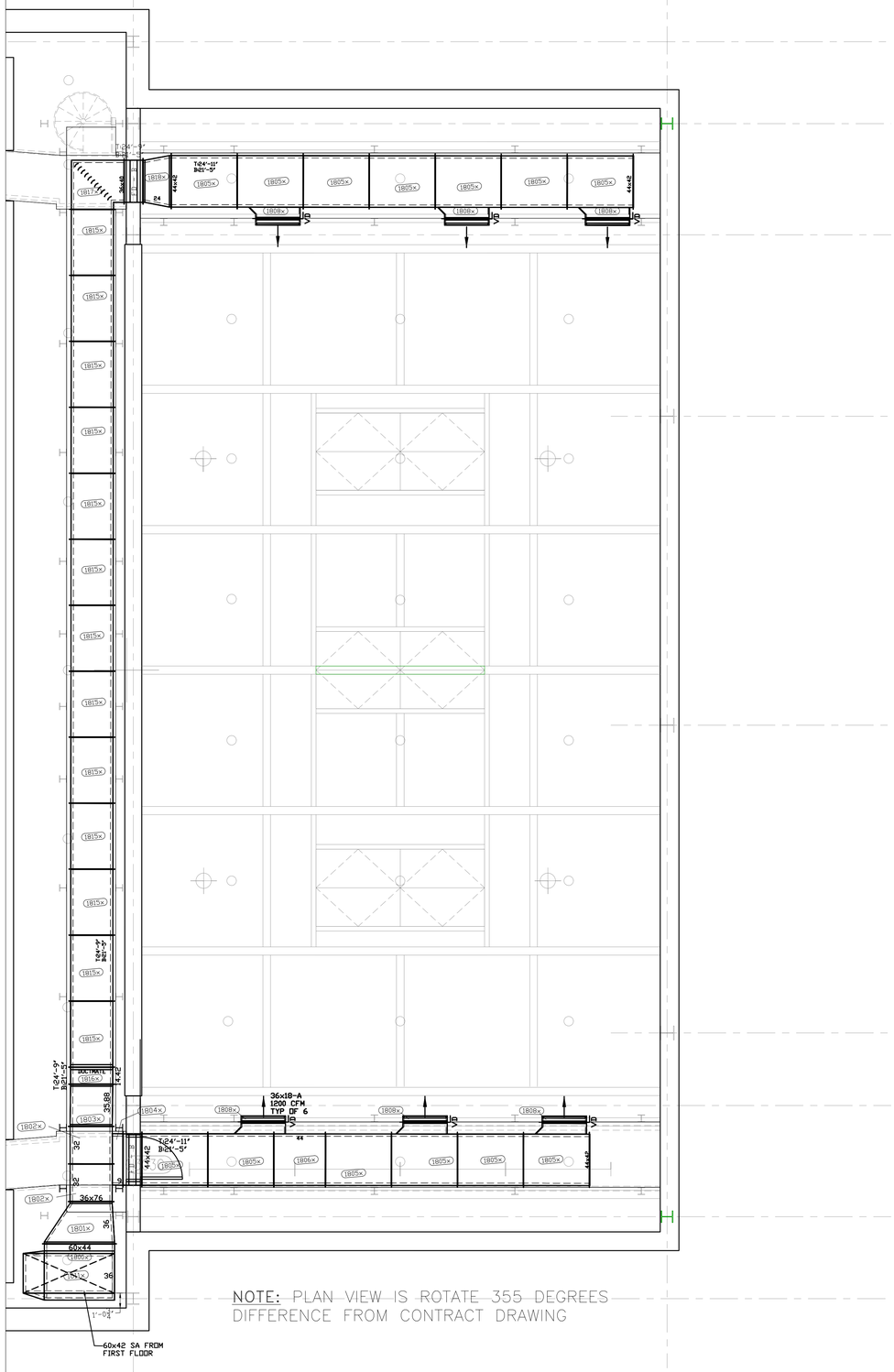
SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"	JSC	

TITLE
BALCONY SHEET METAL PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
SM-3.1

DATE	JOB #
01-15-14	MTCC213C



NOTE: PLAN VIEW IS ROTATE 355 DEGREES DIFFERENCE FROM CONTRACT DRAWING

NOTES:
LINER REQUIREMENTS AS FOLLOWS:
- –VRV UNITS BOTH SUPPLY AND RETURN AIR NO LINER REQUIRED
- –EXHAUST SYSTEMS NO LINER REQUIRED
- –DUST COLLECTION SYSTEMS

THESE DUCT SYSTEMS TO BE 100% LINED WITH 2" ACOUSTICAL LINER
- –RETURN DUCT FROM AHU–1
- –SUPPLY DUCT FROM AHU–1 TO ACOUSTIC PLENUM
- –SUPPLY DUCT FROM ACOUSTICAL PLENUM THROUGH WALL INTO AUDITORIUM
- –SUPPLY DUCT ASSOCIATED WITH ZONE DAMPER #3 FEEDING AUDITORIUM FROM THE FIRST FLOOR
- –SUPPLY DUCT FEEDING THE AUDITORIUM LOBBY, CONTROL ROOM AND COSTUME STORAGE ROOMS

THESE DUCT SYSTEMS TO BE LINED WITH 1" ACOUSTICAL LINER
- –SUPPLY DUCTS FROM ZONE DAMPERS #1 & #2 TO BE LINED FOR THE FIRST 10' DOWNSTREAM OF DAMPER

THESE DUCT SYSTEMS TO BE LINED WITH ½" ACOUSTICAL LINER
- –TRANSFER DUCTS

AS-BUILT DRAWING

FERGUSON
CONTRACTORS # SINCE, 1925
112 Northwest Dr. P.O. Box 430 Plainville, CT. 06062
Telephone (860) 747-4586

COMPOSITE COORDINATION

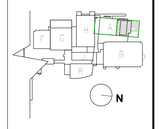
	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

DUCT
- FT - FLAT ON TOP
- FB - FLAT ON BOT
- TU/BU - TOP W/FLAT UP
- TD/BD - TOP W/FLAT DN
- 1×0'-0" - TOP OF DUCT
- 3×0'-0" - BOT OF DUCT

DAMPERS
- FD - FIRE/SMOKE
- FSD - SMOKE
- SD - SMOKE/FIRE
- BDD - BACKDRAFT
- VCD - VOLUME/OPPOSED BLADE
- DBD - VOLUME/SINGLE BLADE
- MD - MOTORIZED
- SPD - SPLITTER

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830



KEY PLAN
SCALE: NOT TO SCALE

REVISIONS			
REV.	DATE	DESCRIPTION	BY
1	08.10.16	AS-BUILT DRAWING	JSC

SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"	JSC	

TITLE
BALCONY SHEET METAL PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
SM-3.2

DATE	JOB #
01-15-14	MTCC213C

AS BUILT DRAWING
8-11-16

FERGUSON
CONTRACTORS ★ SINCE, 1925
112 Northwest Dr. P.O. Box 430 Plainville, CT. 06062
Telephone (860) 747-4566

COMPOSITE COORDINATION		
	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

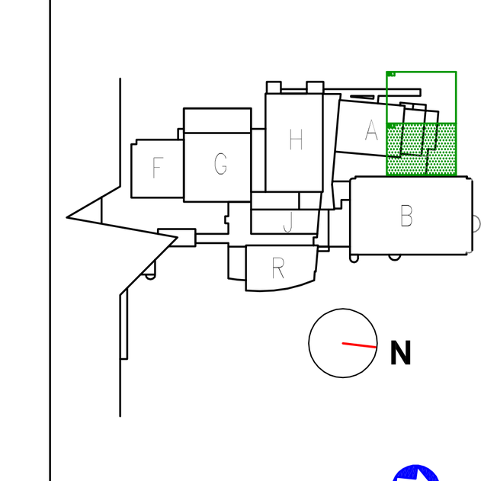
PIPING

BOP - BOTTOM OF PIPE
BOI - BOTTOM OF INSULATION
CL - CENTER FO PIPE
SET - ELEVATION CHANGE
ROLL - ROLLED SET
BOS - BOT OF STEEL
TOS - TOP OF STEEL
CIF - CUT IN FIELD
VIF - VERIFY IF FIELD

BV - BALL VALVE
BFV - BUTTERFLY VALVE
GV - GATE VALVE
GLV - GLOBE VALVE

CHK - CHECK VALVE
PV - PLUG VALVE
CBV - CALIBRATED BALANCING VALVE
SV - SOLENOID VALVE
T/CV - TEMPERATURE CONTROL VALVE
HPV - HIGH POINT DRAIN
AV - AUTOMATIC VENT
FT - FLOAT & THERMOSTATIC TRAP
BT - BUCKET TRAP
VB - VACUUM BREAKER
PRV - PRESSURE REDUCING VALVE
BFP - BACKFLOW PREVENTER
STR - STRAINER
LPD - LOW POINT DRAIN

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830



REVISIONS			
REV.	DATE	DESCRIPTION	BY
001	8-11-16	AS BUILT DRAWING	AEC

SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"		

TITLE
PITS
MECHANICAL PIPING
PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
MP-01.2 REF

DATE	JOB #
09-17-13	MTCC213C

MATCHLINE 1.1

MATCHLINE 1.1 1.2

AS BUILT DRAWING
8–11–16

60 60.5 PA PA.4 PB PC PC.1 PC.4 PC.6 PD PE PF PG

51'–4"

DN

VESTIBULE
139 SF

53'–10"

VAPOR
LIQUID DN. @ COLUMN TO VRV–6
15" DROP

REFRIGERANT LINES DOWN ON BRICK FACE TO VRV–6

BOP 24'–11½" ABOVE 53'–10" SLAB

BOP 10'–3⅝" ABOVE 53'–10" SLAB AFTER DROP FROM 24'–11½" ELEV.

SPIN VRV–6 180° TO ALIGN WITH PIPING CONNECTIONS

BOP 26'–10½"

VRV–16
18" DROP
VAPOR
LIQUID DN. TO VRV–16

NOTE:
PIPING ELEVATIONS BASED ON GALLERIA FINISH FLOOR ELEVATION. (55'–4")

BOP 23'–2⅝"

VAPOR
LIQUID TO VRV–15

SET UP
0'–6"

LIQUID
VAPOR
VAPOR
LIQUID UP TO CRU@ROOF

STAIR A
126.1

UP

CORRIDOR
103
450 SF

52'–5"

50'–6"

COSTUME STORAGE
103.1
260 SF

ORCHESTRA LEVEL
105
6865 SF

LIGHT LOCK

51'–6"

MATCHLINE 1.1 1.3

FERGUSON
CONTRACTORS # SINCE, 1965
112 Northwest Dr., P.O. Box 430 Plainville, CT. 06062
Telephone (860) 747-4566

COMPOSITE COORDINATION		
	DATE	SIGN–OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

PIPING

BSP – BOTTOM OF PIPE
BOI – BOTTOM OF INSULATION
SET – ELEVATION CHANGE
BOS – BOT OF STEEL
BOSS – BOT OF STEEL
TOS – TOP OF STEEL
OF – CUT IN FIELD
NEW – NEW PIPING

BV – BALL VALVE
BFV – BUTTERFLY VALVE
CV – CHECK VALVE
GLV – GLOBE VALVE

DCV – DECK VALVE
PV – PLUG VALVE
SBV – SOLDERED BALANCING VALVE
SV – SOLENOID VALVE
TCV – THERMOSTATIC CONTROL VALVE
HDP – HIGH POINT DRAIN
AV – AUTOMATIC VENT
FT – FLOAT & THERMOSTATIC TRAP
BT – BUCKET TRAP
PRV – PRESSURE REDUCING VALVE
ESD – EMERGENCY SHOWER
STR – STRAINER
LPD – LOW POINT DRAIN

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830

N

KEY PLAN
SCALE: NOT TO SCALE

REV.	DATE	DESCRIPTION	BY
001	8–11–16	AS BUILT DRAWING	AEC

SCALE	DRAWN BY	CHECK BY
1/4"=1'–0"		

TITLE
GROUND LEVEL MECHANICAL PIPING PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
MP–1.1REF

DATE 09–17–13
JOB # MTCC213C

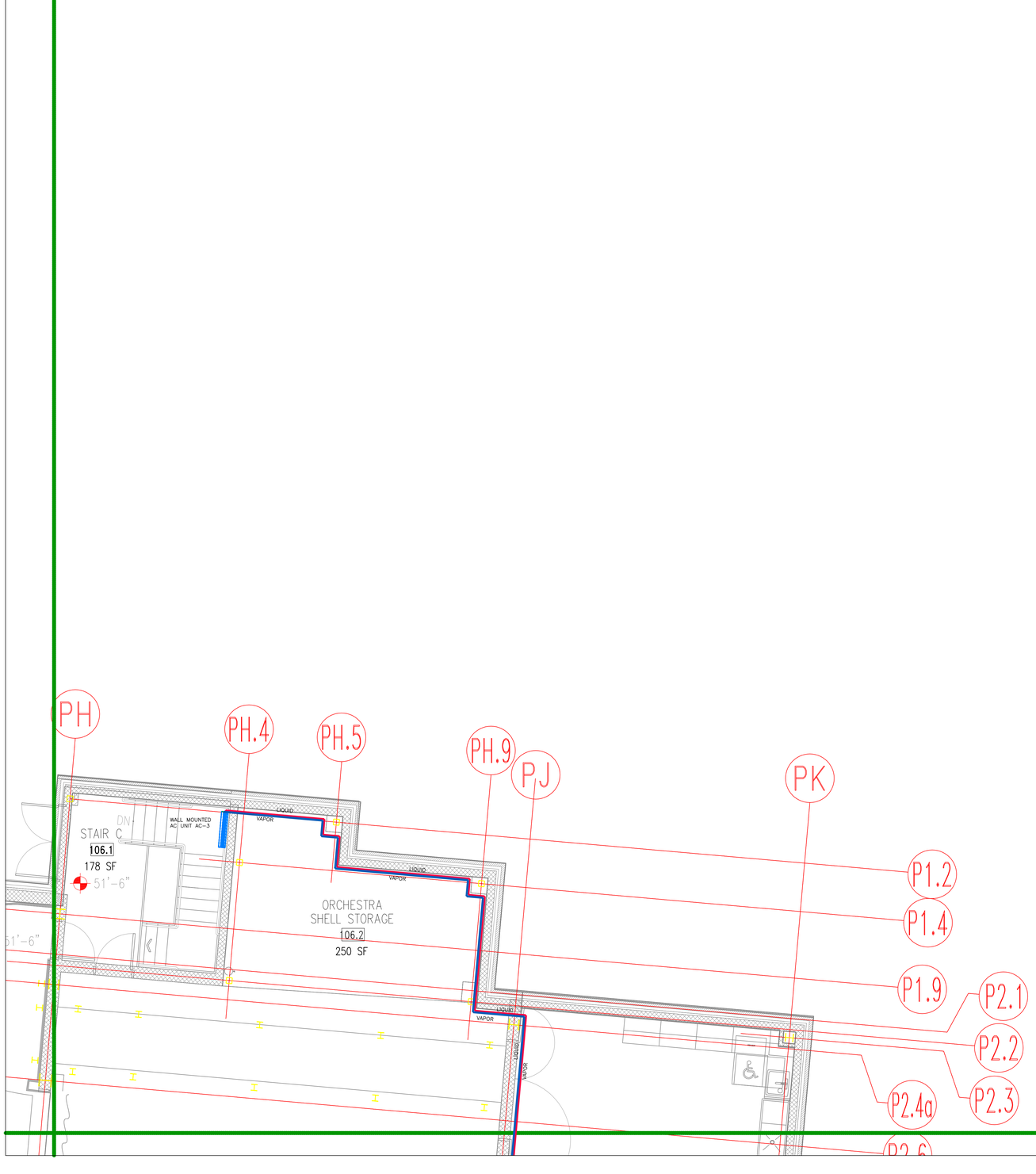
MATCHLINE

1.1
1.2

MATCHLINE

1.2

AS BUILT DRAWING
8–11–16



1.2
1.4

MATCHLINE

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112 Northeast Dr., P.O. Box 430 Plainville, CT. 06062
Telephone (860) 747-4266

COMPOSITE COORDINATION		
	DATE	SIGN–OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

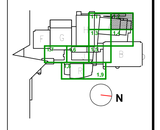
PIPING

BSP – BOTTOM OF PIPE
BOI – BOTTOM OF INSULATION
SET – ELEVATION CHANGE
BOS – BOT OF STEEL
TOS – TOP OF STEEL
OF – CUT IN FIELD
OP – OPENING

BV – BALL VALVE
BFV – BUTTERFLY VALVE
CV – CHECK VALVE
GLV – GLOBE VALVE

PVK – DECK VALVE
PJV – JUNCTION BALANCING VALVE
SV – SOLENOID VALVE
TCV – THERMOSTATIC CONTROL VALVE
HPD – HIGH POINT DRAIN
AV – AIR VENT VALVE
FT – FLOAT & THERMOSTATIC TRAP
BT – BUCKET TRAP
PRV – PRESSURE REDUCING VALVE
EXP – EXPANSION JOINT
STR – STRAINER
LPD – LOW POINT DRAIN

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830



REV.	DATE	REVISIONS DESCRIPTION	BY
001	8-11-16	AS BUILT DRAWING	AEC

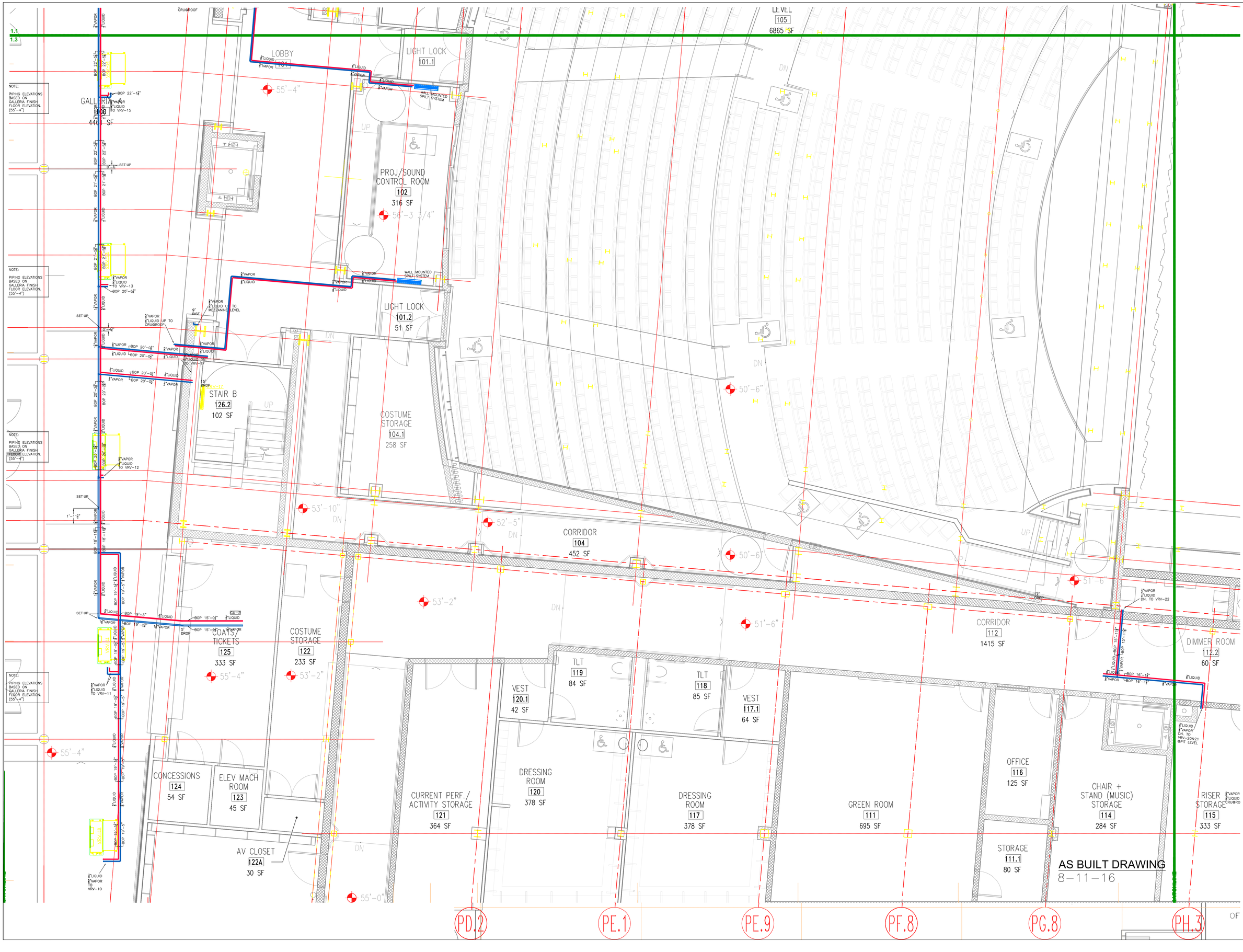
SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"	AEC	RLF

TITLE
GROUND LEVEL MECHANICAL PIPING PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
MP–1.2 REF

DATE	JOB #
11–17–14	MTCC213C



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Telephone (860) 747-4566

COMPOSITE COORDINATION

	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

PIPING

P/V - DECK VALVE
BV - BALL VALVE
PV - PLUG VALVE
BFV - BALANCING VALVE
SV - SOLENOID VALVE
AV - AUTOMATIC CONTROL VALVE
HP - HIGH POINT DRAIN
FT - FLOAT & THERMOSTATIC TRAP
PRV - PRESSURE REDUCING VALVE
VB - VACUUM BREAKER
RPBP - REDUCED PRESSURE BACKFLOW PREVENTER
STR - STRAINER
LPD - LOW POINT DRAIN

BOP - BOTTOM OF PIPE
BOI - BOTTOM OF INSULATION
TOP - TOP OF PIPE
SET - SET ELEVATION CHANGE
BOS - BOT OF STEEL
TOS - TOP OF STEEL
CIF - CUT IN FIELD
OF - OUTSIDE FACE

BFV - BALL VALVE
BFV - BUTTERFLY VALVE
GV - GATE VALVE
GLV - GLOBE VALVE

GREENWICH HS
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10 HILLSIDE RD GREENWICH, CT 06830

KEY PLAN
SCALE: NOT TO SCALE

REV.	DATE	DESCRIPTION	BY
001	8-11-16	AS BUILT DRAWING	AEC

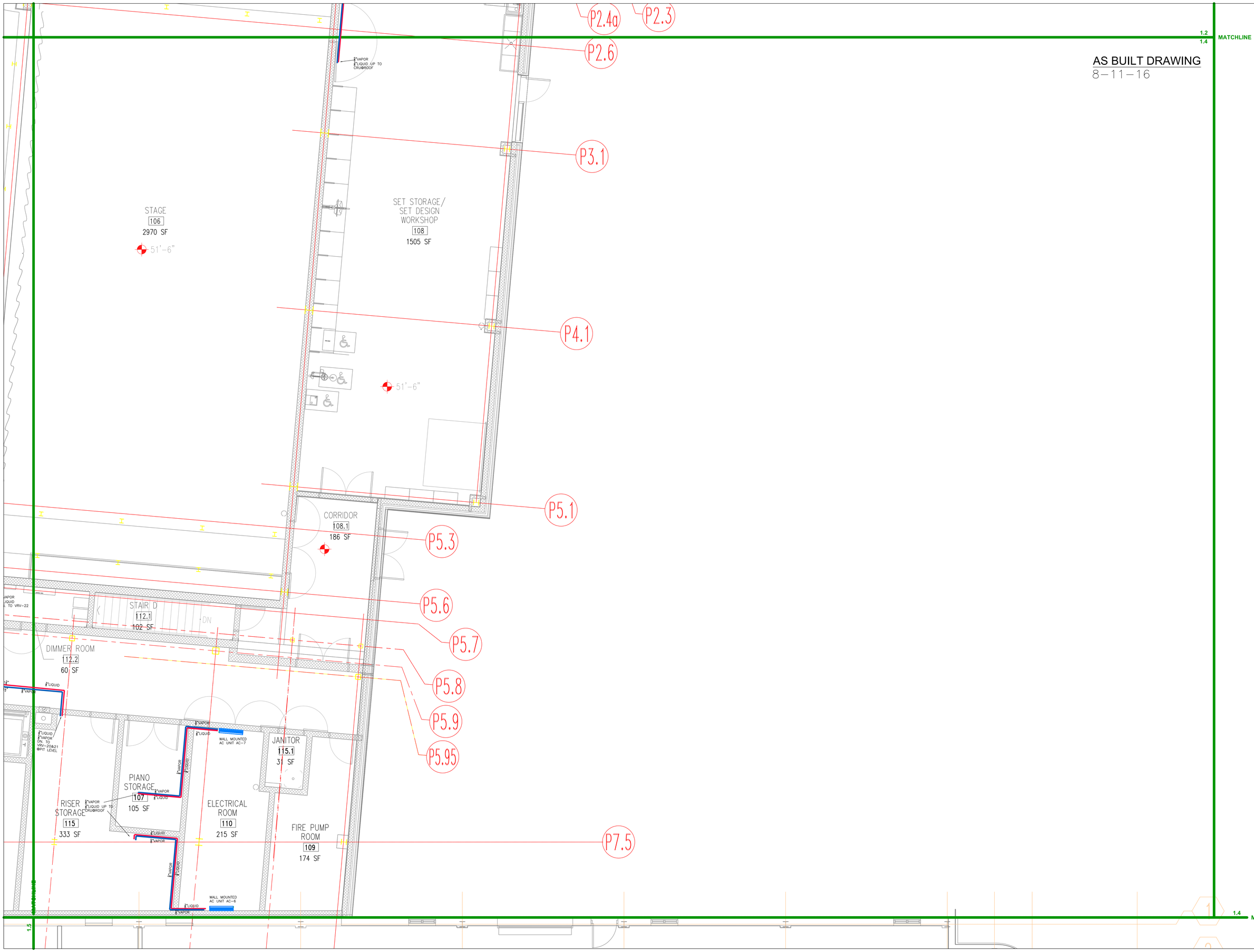
SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"	AEC	RLF

TITLE
GROUND LEVEL MECHANICAL PIPING PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
MP-1.3 REF

DATE	JOB #
11-17-14	MTCC213C



AS BUILT DRAWING
8-11-16

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Telephone (860) 747-4566

COMPOSITE COORDINATION		
	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

PIPING

BSP - BOTTOM OF PIPE
BOI - BOTTOM OF INSULATION
SET - ELEVATION CHANGE
BOS - BOT OF STEEL
BOSS - BOT OF STEEL
TOS - TOP OF STEEL
OF - CUT IN FIELD
NIC - NOT IN CONTRACT

BV - BALL VALVE
BFV - BUTTERFLY VALVE
CV - CHECK VALVE
GLV - GLOBE VALVE

PVK - DECK VALVE
PVR - PLUG VALVE
SBV - BALANCING VALVE
SV - SOLENOID VALVE
TRV - THERMOSTATIC CONTROL VALVE
HPD - HIGH POINT DRAIN
AV - AUTOMATIC VENT
FT - FLOAT & THERMOSTATIC TRAP
PRV - PRESSURE REGULATOR
VB - VACUUM BREAKER
CWP - CONDENSATE PUMP
SPR - SPRINKLER PREVENTER
STR - STRAINER
LPD - LOW POINT DRAIN

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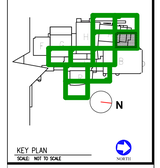
10 HILLSIDE RD GREENWICH, CT 06830



REVISIONS: REV.	DATE	DESCRIPTION	BY
001	8-11-16	AS BUILT DRAWING	AEC

SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"		

TITLE
GROUND LEVEL MECHANICAL PIPING PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
MP-1.4 REF

DATE	JOB #
09-17-13	MTCC213C

PROP STORAGE
127
857 SF

CORRIDOR
113
662 SF

ACADEMIC AREA

STORAGE

OFFICE

FB
STAIR 4

TRANSPORTATION / ENERGY

STORAGE

TECHNOLOGY CORRIDOR

CORRIDOR
128
95 SF

TOILET
173
53 SF

JANITOR
172
47 SF

STORAGE
129
99 SF

ELEC SWITCH
GEAR RM

PREP RM

BIOLOGY LAB #1

BIOLOGY LAB #3

BIOLOGY LAB #2

BIOLOGY LAB #4

DATA RM

LECTURE ROOM

CORRIDOR

NOTE:
PIPING ELEVATIONS IN THIS AREA ARE BASED ON FINISH FLOOR ELEVATION. (58'-8")

WALL MOUNTED SPILT SYSTEM

MATCHLINE

MATCHLINE

AS BUILT DRAWING
8-11-16

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112 Northwest Dr., P.O. Box 430, Plainville, CT. 06062
Telephone (860) 747-4566

COMPOSITE COORDINATION

	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

PIPING

BOP - BOTTOM OF PIPE
BOI - BOTTOM OF INSULATION
SET - ELEVATION CHANGE
SCD - SCHEDULE 40
BSS - BOT OF STEEL
TOS - TOP OF STEEL
OF - CUT IN FIELD
CU - COPPER TUBING
BV - BALL VALVE
BFV - BUTTERFLY VALVE
GV - GATE VALVE
GLV - GLOBE VALVE
DV - DECK VALVE
PV - PLUG VALVE
BV - BALANCING VALVE
SV - SOLENOID VALVE
AV - AUTOMATIC CONTROL VALVE
HPD - HIGH POINT DRAIN
AV - AIR VENT
FT - FLOAT & THERMOSTATIC TRAP
FT - FLOAT TRAP
PRV - VACUUM BREAKER
RPZ - REDUCED PRESSURE PREVENTER
STR - STRAINER
LPD - LOW POINT DRAIN

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830

KEY PLAN
SCALE: NOT TO SCALE

REVISIONS

REV.	DESCRIPTION	DATE	BY
001	AS BUILT DRAWING	8-11-16	AEC

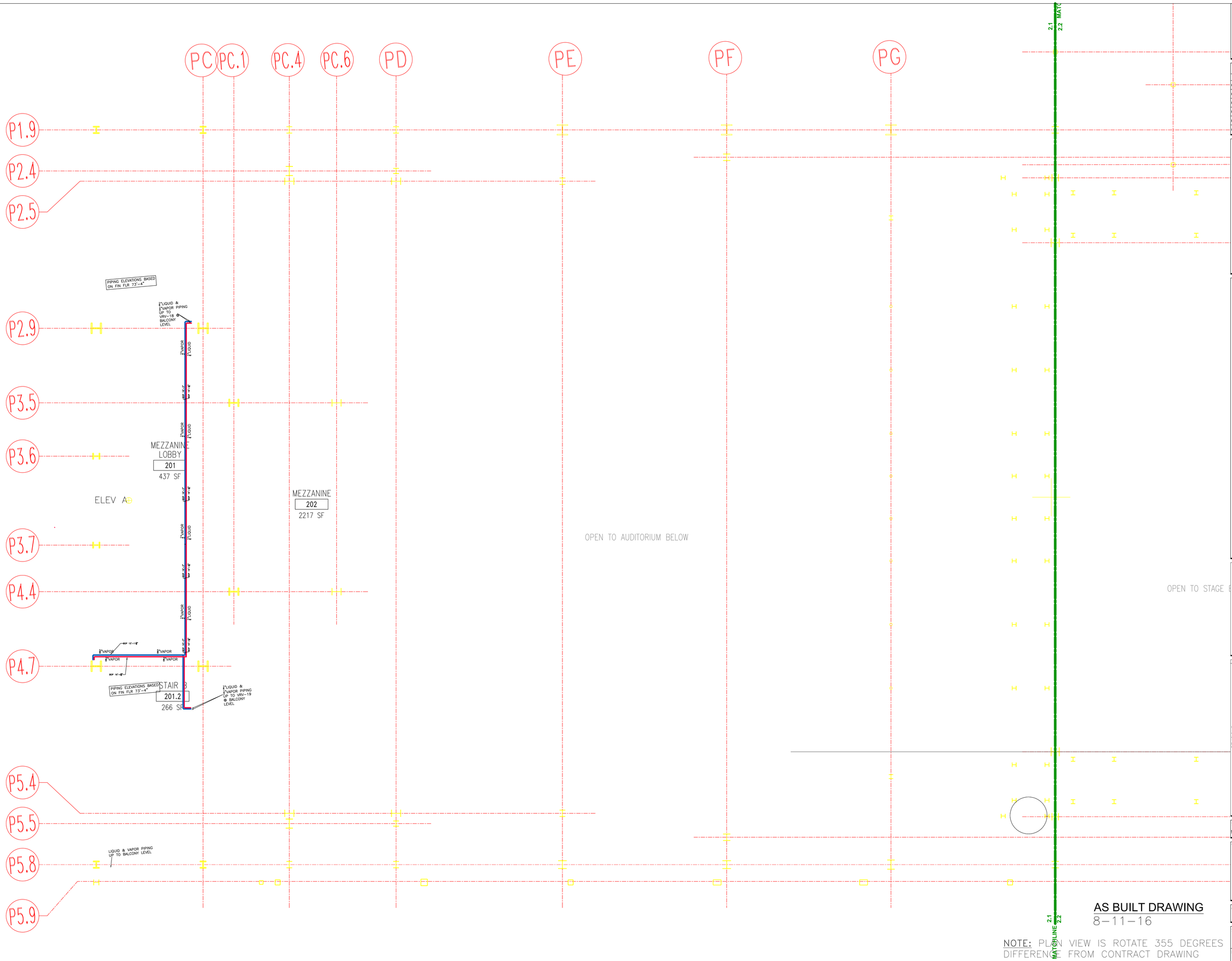
SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"	AEC	RLF

TITLE
GROUND LEVEL MECHANICAL PIPING PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
MP-1.5 REF

DATE	JOB #
11-17-14	MTCC213C



AS BUILT DRAWING
8-11-16

NOTE: PLAN VIEW IS ROTATE 355 DEGREES DIFFERENCE FROM CONTRACT DRAWING

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COMPOSITE COORDINATION

	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
D.C.		

SYMBOL LEGEND

DAMPERS
FD - FIRE/SMOKE
FSD - SMOKE
BD - BACKDRAFT
MOD - MOTORIZED
VCD - VOLUME/OPPOSED BLADE
OBD - VOLUME/SINGLE BLADE
SAD - SPLITTER
SPD - SPLITTER

DUCT
FT - FLAT ON TOP
FB - FLAT ON BOT
TU/BU - TOP W/ RISE UP
TD/BD - TOP W/ DROP DN
T+D -T - TOP OF DUCT
T+D -B - BOT OF DUCT

GREENWICH HS
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10 HILLSIDE RD GREENWICH, CT 06830

KEY PLAN
SCALE: NOT TO SCALE

REVISIONS			
REV	DATE	DESCRIPTION	BY
001	8-11-16	AS BUILT DRAWING	AEC

SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"		

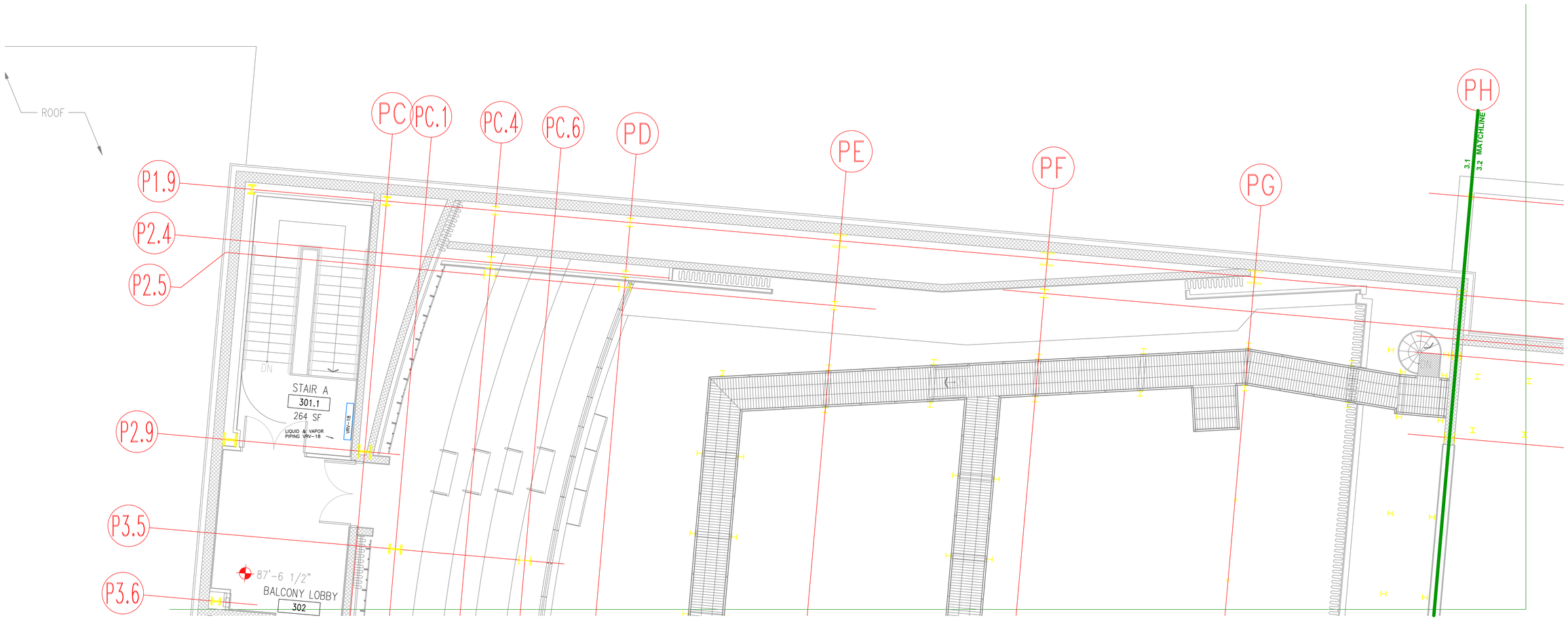
TITLE
MEZZANINE MECHANICAL PIPING PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
MP-2.1 REF

DATE	JOB #
01-15-14	MTCC213C

AS BUILT DRAWING
8-11-16



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COMPOSITE COORDINATION		
	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

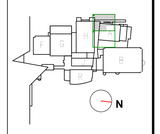
PIPING

BOP - BOTTOM OF PIPE
BIC - BOTTOM OF INSULATION
SEL - ELEVATION CHANGE
BOS - BOT OF STEEL
TOS - TOP OF STEEL
CIF - CUT IN FIELD
CWF - CORE WALL FILLED

BV - BALL VALVE
BFV - BUTTERFLY VALVE
GTV - GATE VALVE
GLV - GLOBE VALVE

CHV - CHECK VALVE
PLV - PLUG VALVE
CSV - CLOSED SPRING CHECK VALVE
SV - SOLENOID VALVE
TCV - THERMOSTATIC CONTROL VALVE
HPD - HIGH POINT DRAIN
AV - AIR VENT
FT - FLOAT & THERMOSTATIC TRAP
PRV - PRESSURE REGULATING VALVE
WV - WATER VALVE
PRV - PRESSURE REDUCING VALVE
BFP - BACKFLOW PREVENTER
STR - STRAINER
LPD - LOW POINT DRAIN

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830



KEY PLAN
SCALE: NOT TO SCALE

REVISIONS			
REV.	DATE	DESCRIPTION	BY
001	8-11-16	AS BUILT DRAWING	AEC

SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"		

TITLE
BALCONY MECHANICAL PIPING PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
MP-3.1 REF

DATE	JOB #
09-17-13	MTCC213C

PC PC.1 PC.4 PC.6 PD PE PF PG PH

P2.9 P3.5 P3.6 P3.7 P4.4 P4.7 P5.4 P5.5

LIQUID & VAPOR PIPING VRV-18

VRV-18

87'-6 1/2"

BALCONY LOBBY
302
431 SF

CU-1 @ (ROOF LEVEL)

ELEC. A

1"LIQUID
1 1/8"VAPOR

4" DROP

LIQUID & VAPOR PIPING FROM CU-8 @ROOF

BALCONY
303
1480 SF

BOP 15'-2"
BOP 15'-2"

1"LIQUID
1 1/8"VAPOR

BOP 15'-2"
BOP 15'-2"

1"LIQUID
1 1/8"VAPOR

BOP 15'-2"
BOP 15'-2"

AHU-5

4" DROP

OPEN TO AUDITORIUM BELOW

OPE

3.1 3.2 MATCHLINE

STAIR B
301.2
255 SF
DN

VRV-19

LIQUID & VAPOR PIPING VRV-19

LIQUID & VAPOR PIPING FROM BELOW

EL 86'-0"

EL 86'-0"

3.1
3.2

AS BUILT DRAWING
8-11-16

FERGUSON
CONTRACTORS # SINCE, 1965
112 Northeast Dr, P.O. Box 430 Plainville, CT. 06062
Telephone (860) 747-4566

COMPOSITE COORDINATION

	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

PIPING

BOP - BOTTOM OF PIPE
BOI - BOTTOM OF INSULATION
COT - CLEAN OUT TO GRADE
EL - ELEVATED CHANGE
BOS - BOT OF STEEL
TOS - TOP OF STEEL
OF - OUT IN FIELD
UF - UNDER FLOOR

BV - BALL VALVE
BFV - BUTTERFLY VALVE
GAV - GATE VALVE
GLV - GLOBE VALVE

CHV - CHECK VALVE
CBV - BALL VALVE
CSV - CIRCUIT SETTING VALVE
SV - SOLENOID VALVE
TCV - TEMPERATURE CONTROL VALVE
AAV - AUTO AIR VENT
HPV - HIGH POINT DRAIN
PRV - PRESSURE REGULATING VALVE
FT - FLOAT & THERMOSTATIC TRAP
BFP - BACKFLOW PREVENTER
PRV - PRESSURE REDUCING VALVE
MPV - MANUAL POINT VENT
STR - STRAINER
BFP - BACKFLOW PREVENTER
LPD - LOW POINT DRAIN

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
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KEY PLAN
SCALE: NOT TO SCALE

REV.	DATE	DESCRIPTION	BY
001	8-11-16	AS BUILT DRAWING	AEC

REVISIONS

SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"		

TITLE
BALCONY MECHANICAL PIPING PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
MP-3.2 REF

DATE	JOB #
09-17-13	MTCC213C

MATCHLINE 1.1

MATCHLINE 1.1 1.2

AS BUILT DRAWING
8-12-16

60 60.5 PA PA.4 PB PC PC.1 PC.4 PC.6 PD PE PF PG

51'-4"

VESTIBULE

53'-10"

CONDENSATE DN. IN WALL

3"DW FROM VRV-6

CONDENSATE PUMP @CLG.

VRV-6

2'-5½"

BOP 10'-4½"

3" DW

SET

BOP 10'-0" (FROM 53-10 SLAB)

BOP 23'-8½" (FROM 55'-4" SLAB)

2'-2½"

DN TO DP

VRV-16

7'-6½"

CENTER

VRV-15

TOP OF VRV APPROX. 12" BELOW DECK

8'-5½"

BOP 22'-10½" (OFF 55'-4" SLAB)

13'-1½"

BOP 22'-5½"

2'-2½"

STAIR A
126.1

DN

UP

COSTUME STORAGE
103.1
260 SF

CORRIDOR
103
450 SF

2"DCW

1'-3"

BOP 11'-8½" (FROM 55'-5" SLAB)

2'-1½"

BOP 6'-9½" (FROM 55'-4"SLAB)

1'-0"

5" ST 1'-3½"

BOP 13'-8½" (FROM 55'-4"SLAB)

BOP 11'-8½" (FROM 55'-4"SLAB)

0'-7½"

BOP 12'-11½" (FROM 50'-6"SLAB)

2"DCW DN. TO WH.

1'-4"

5" ST

0'-10½"

50'-6"

51'-6"

ORCHESTRA LEVEL
105
6865 SF

LIGHT LOCK

LOBBY

MATCHLINE 1.1 1.3

SYMBOL LEGEND

PIPING

BSP – BOTTOM OF PIPE
BOI – BOTTOM OF INSULATION
SET – ELEVATION CHANGE
BOS – BOT OF STEEL
BOSS – BOT OF STEEL
TOS – TOP OF STEEL
CF – CUT IN FIELD
NIC – NOT IN CONTRACT

BV – BALL VALVE
BFV – BUTTERFLY VALVE
CV – CHECK VALVE
GLV – GLOBE VALVE

DCV – DECK VALVE
PV – PLUG VALVE
SBV – SWEAT BALANCING VALVE
SV – SOLENOID VALVE
TCV – THERMOSTATIC CONTROL VALVE
HPD – HIGH POINT DRAIN
AV – AUTOMATIC VENT
FT – FLOAT & THERMOSTATIC TRAP
BT – BALANCING TEE
PRV – PRESSURE REDUCING VALVE
ESD – EMERGENCY SHOWER DRENCHER
STR – STRAINER
LPD – LOW POINT DRAIN

FERGUSON
CONTRACTORS # SINCE, 1965
112 Northwest Dr., P.O. Box 430 Plainville, CT. 06062
Telephone (860) 747-4566

COMPOSITE COORDINATION		
	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830

N

KEY PLAN
SCALE: NOT TO SCALE

REV.	DATE	DESCRIPTION	BY
1	10/3/13	ADDED DIMENSIONS IDW	EAI
2	11-15-14	ISSUED FOR CONSTRUCTION	AEC
003	8-12-16	AS BUILT DRAWING	AEC

SCALE 1/4"=1'-0" | DRAWN BY | CHECK BY

TITLE
GROUND LEVEL PLUMBING PLAN

CONTRACT DRAWING NO.

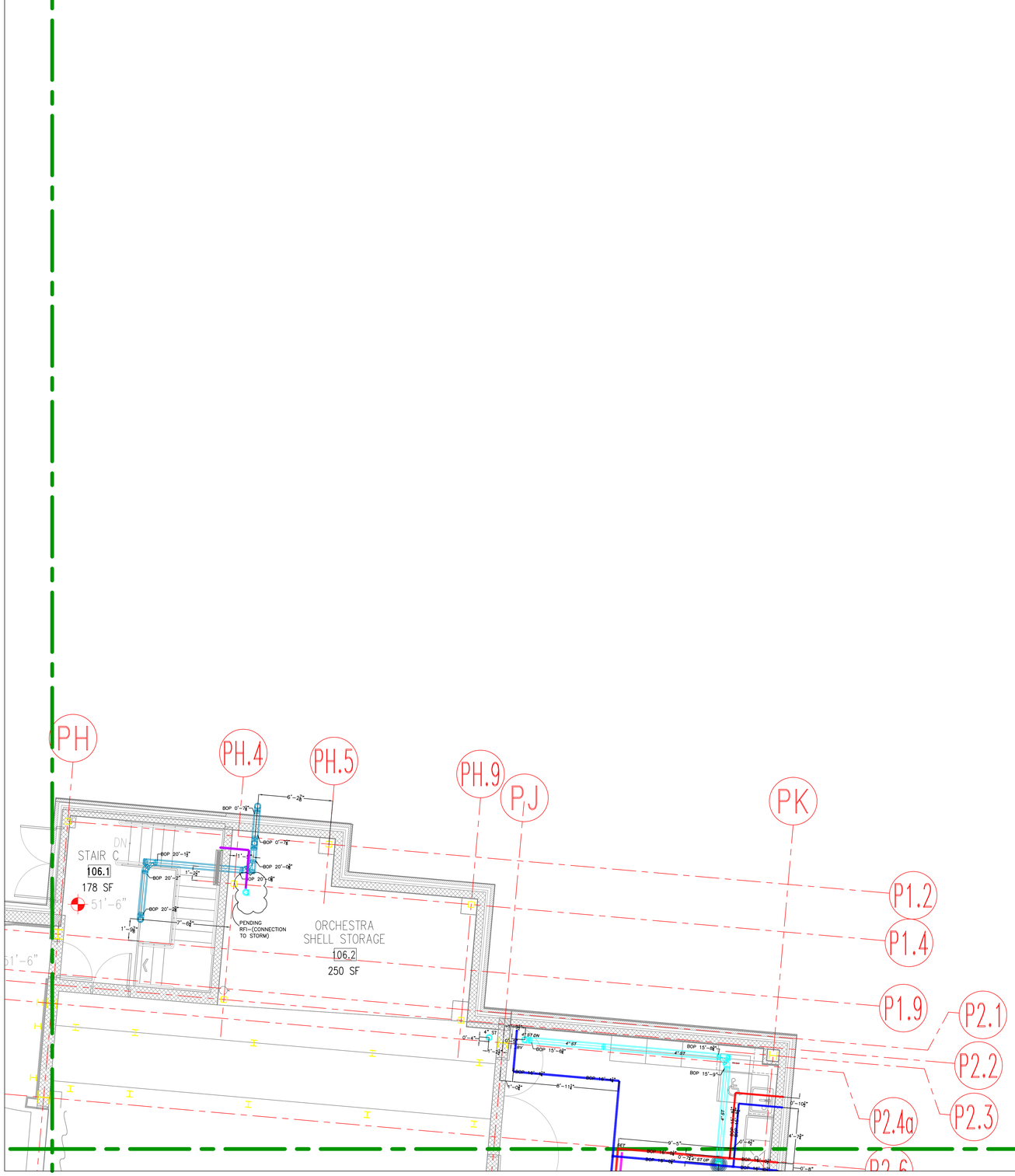
SHOP DRAWING NO.
P-1.1

DATE 09-17-13 | JOB # MTCC213C

MATCHLINE
1.1
1.2

MATCHLINE
1.2

AS BUILT DRAWING
8–12–16



1.2
1.4
MATCHLINE

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COMPOSITE COORDINATION		
	DATE	SIGN–OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

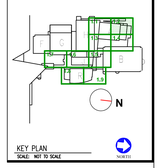
PIPING

BSP – BOTTOM OF PIPE
BOI – BOTTOM OF INSULATION
BOS – BOTTOM OF STEEL
SEL – ELEVATION CHANGE
BOS – BOT OF STEEL
BOS – BOT OF STEEL
TOS – TOP OF STEEL
OF – CUT IN FIELD
W – WELDED JOINT

BV – BALL VALVE
BFV – BUTTERFLY VALVE
GV – GATE VALVE
GLV – GLOBE VALVE

DCV – DECK VALVE
FV – FLUG VALVE
CBV – CALIBRATED BALANCING VALVE
SV – SOLENOID VALVE
TCV – THERMOSTATIC CONTROL VALVE
HPD – HIGH POINT DRAIN
AV – AUTOMATIC VENT
FT – FLOAT & THERMOSTATIC TRAP
BT – BUCKET TRAP
PRV – PRESSURE REDUCING VALVE
ESD – EARTHQUAKE SHUTOFF
STR – STRAINER
LPD – LOW POINT DRAIN

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830



KEY PLAN
SCALE: NOT TO SCALE

REVISIONS			
REV.	DATE	DESCRIPTION	BY
1	11–15–14	ISSUED FOR CONTRUCTION	AEC
002	8–12–16	AS BUILT DRAWING	AEC

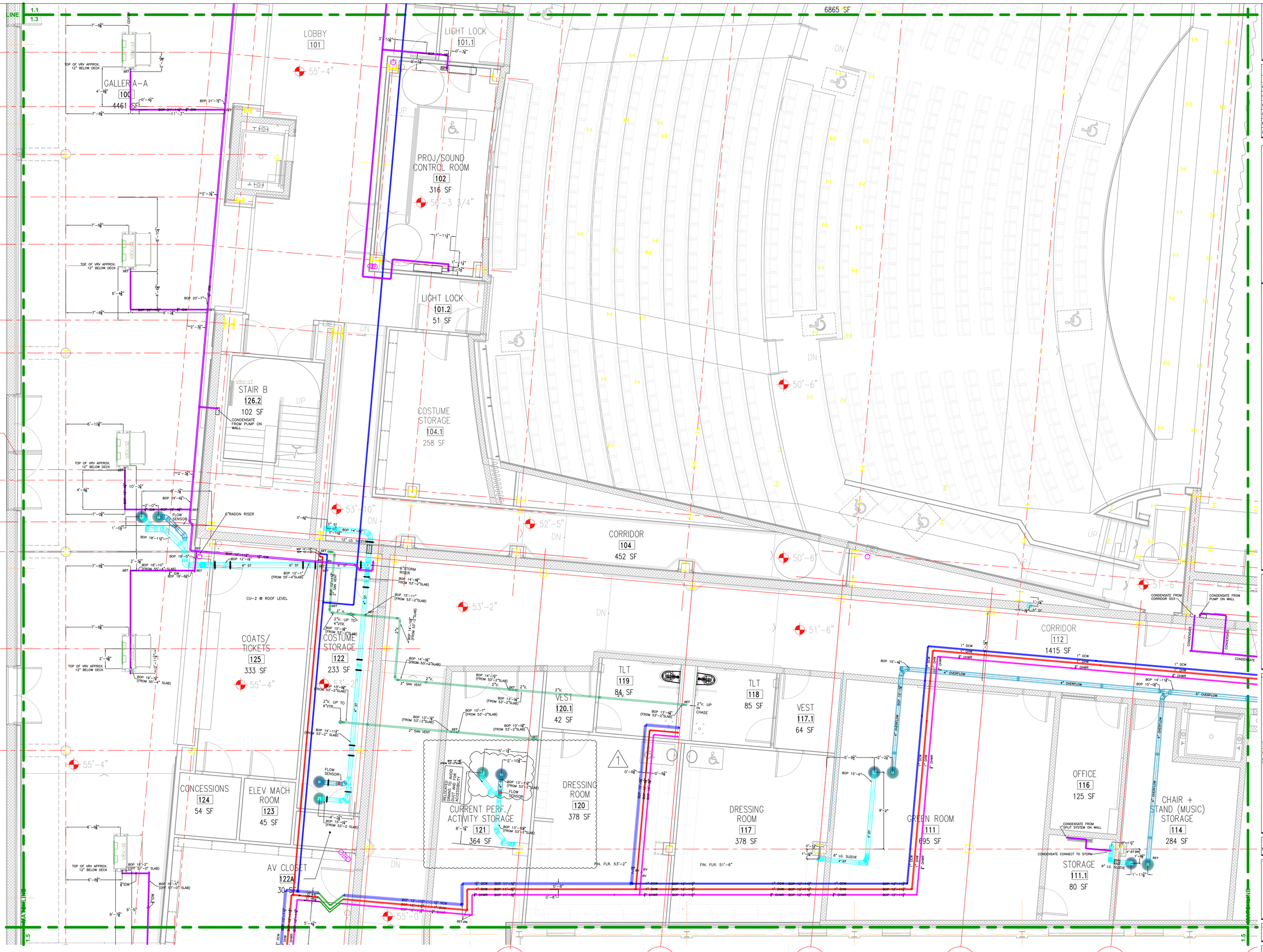
SCALE	DRAWN BY	CHECK BY
1/4"=1'–0"		

TITLE
GROUND LEVEL PLUMBING PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
P–1.2

DATE	JOB #
09–17–13	MTCC213C



FERGUSON
CONTRACTORS # SINCE, 1965
112 Northwest Dr., P.O. Box 430, Plainville, CT, 06062
Telephone (860) 747-4566

COMPOSITE COORDINATION		
	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

PIPING

BOP – BOTTOM OF PIPE
BOI – BOTTOM OF INSULATION
CO – CLEAN OUT TO GRADE
SET – ELEVATION CHANGE
SST – STAINLESS STEEL
BOS – BOT OF STEEL
TOS – TOP OF STEEL
OF – CUT IN FIELD
NIC – NOT IN CONTRACT

BV – BALL VALVE
BFV – BUTTERFLY VALVE
GV – GATE VALVE
GLV – GLOBE VALVE

PV – DECK VALVE
BV – BALL VALVE
CBV – CIRCUIT BALANCING VALVE
SV – SOLENOID VALVE
TCV – TEMPERATURE CONTROL VALVE
AP – HIGH POINT DRAIN
AP2 – HIGH POINT VENT
FT – FLOAT & THERMOSTATIC TRAP
BT – BUCKET TRAP
PRV – PRESSURE REDUCING VALVE
BFP – BACKFLOW PREVENTER
STR – STRAINER
LPD – LOW POINT DRAIN

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD - RD GREENWICH, CT 06830

KEY PLAN
SCALE: NOT TO SCALE

REV.	DATE	DESCRIPTION	BY
1	08-28-14	REVISED SOTRM ELEV	AEC
2	10-03-14	ADDED DIMENSIONS IDW	EAI
3	11-15-14	ISSUED FOR CONSTRUCTION	AEC
4	12-16-14	ADDED EXP. LOOPS	AEC
005	8-12-16	AS BUILT DRAWING	AEC

SCALE: 1/4"=1'-0" | DRAWN BY | CHECK BY

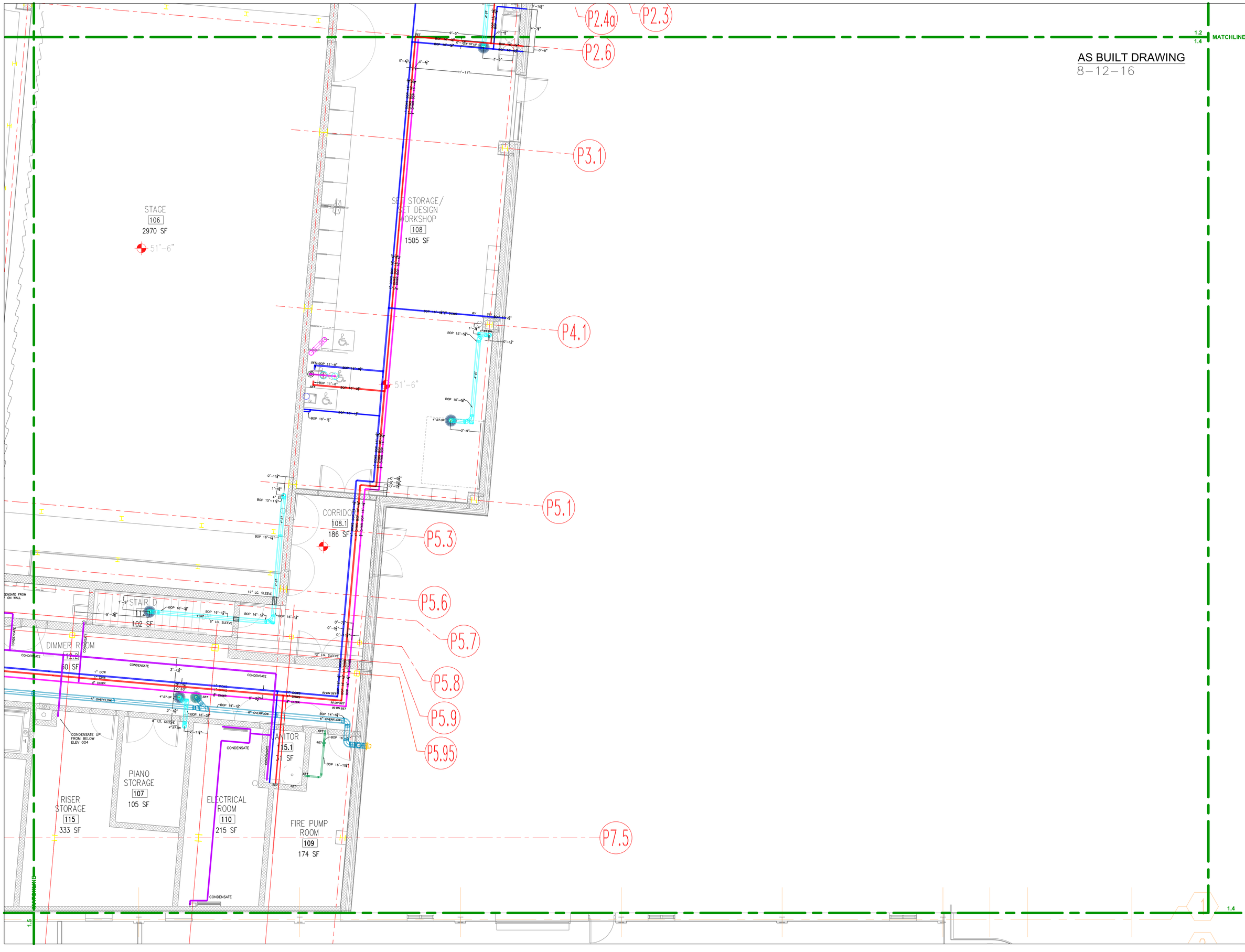
TITLE
GROUND LEVEL PLUMBING PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
P-1.3

DATE: 09-17-13
JOB #: MTCC213C

AS BUILT DRAWING
8-12-16



AS BUILT DRAWING
8-12-16

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COMPOSITE COORDINATION		
	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

PIPING

BSP – BOTTOM OF PIPE
BOI – BOTTOM OF INSULATION
DW – DOMESTIC WATER
SET – ELEVATION CHANGE
BOS – BOT OF STEEL
TOS – TOP OF STEEL
OF – CUT IN FIELD
CO – CLEANOUT
BV – BALL VALVE
BFV – BUTTERFLY VALVE
CV – CHECK VALVE
GLV – GLOBE VALVE
DCV – DECK VALVE
PLV – PLUG VALVE
BFV – BALANCING VALVE
SV – SOLENOID VALVE
TMV – THERMOSTATIC CONTROL VALVE
HPD – HIGH POINT DRAIN
AV – AIR VENT
FT – FLOAT & THERMOSTATIC TRAP
PRV – PRESSURE REDUCING VALVE
RB – VACUUM BREAKER
DCVA – DOUBLE CHECK VALVE
STR – STRAINER
LPD – LOW POINT DRAIN

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830

KEY PLAN
SCALE: NOT TO SCALE

REVISIONS			
REV.	DATE	DESCRIPTION	BY
1	11-15-14	ISSUED FOR CONSTRUCTION	AEC
002	8-12-16	AS BUILT DRAWING	AEC

SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"		

TITLE
GROUND LEVEL PLUMBING PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
P-1.4

DATE	JOB #
09-17-13	MTCC213C

PROP STORAGE
127
857 SF

CORRIDOR
113
662 SF

CORRIDOR
128
153 SF

TOILET
173
53 SF

JANITOR
172
47 SF

STORAGE
129
99 SF

ELEC SWITCH GEAR RM

ACADEMIC AREA

STORAGE

OFFICE

STAIR 4

TRANSPORTATION / ENERGY

STORAGE

TECHNOLOGY CORRIDOR

PREP RM

BIOLOGY LAB #1

BIOLOGY LAB #2

BIOLOGY LAB #3

BIOLOGY LAB #4

PREP RM

DATA RM

LECTURE ROOM

CORRIDOR

BULLETIN-19

CONNECT 1½"INDIRECT WASTE TO STORM

1½"DW FROM VRV-5

TOP OF VRV APPROX. 14" BELOW DECK

2"INDIRECT WASTE

4"STORM

4"OFD

FLOW SENSOR

RD

MATCHLINE

MATCHLINE

AS BUILT DRAWING
8-12-16

FERGUSON
CONTRACTORS # SINCE, 1965
112 Northeast Dr., P.O. Box 430, Plainville, CT, 06062
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COMPOSITE COORDINATION		
	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

PIPING

BSP - BOTTOM OF PIPE
BOI - BOTTOM OF INSULATION
SET - ELEVATION CHANGE
DCW - DOMESTIC COLD WATER
BSS - BOT OF STEEL
TOS - TOP OF STEEL
OF - CUT IN FIELD
NIC - NOT IN CONTRACT
BV - BALL VALVE
BFV - BUTTERFLY VALVE
GV - GATE VALVE
GLV - GLOBE VALVE
DCV - DECK VALVE
PV - PLUG VALVE
BV - BALANCING VALVE
SV - SOLENOID VALVE
AV - AUTOMATIC CONTROL VALVE
HPD - HIGH POINT DRAIN
FD - FLOOR DRAIN
FT - FLOAT & THERMOSTATIC TRAP
RD - ROOF DRAIN
MB - VACUUM BREAKER
RPBP - REDUCED PRESSURE BACKFLOW PREVENTER
STR - STRAINER
LPD - LOW POINT DRAIN

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830

KEY PLAN
SCALE: NOT TO SCALE

REVISIONS			
REV.	DATE	DESCRIPTION	BY
1	11-10-14	ADDED PER BULLETIN-19	AEC
2	11-15-14	REVISED STORM SIZE	AEC
3	11-15-14	ISSUED FOR CONSTRUCTION	AEC

SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"		

TITLE
GROUND LEVEL PLUMBING PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
P-1.5

DATE	JOB #
09-17-13	MTCC213C

MEN FACILITY LOCKER ROOM

MATCHLINE 1.7 1.6

LTY LOCKER ROOM

OFFICE

STORAGE

OFFICE

OFFICE

DD

AA

J48 J49 J51 J52 J52c J54

VESTIBULE

STORAGE

STORAGE

J52a

J53

COURTYARD
159
1291 SF

SEE DRAWING BG1.1

P10 P10.1 P10.3 P10.4 P10.6 P10.7 P10.8 P10.9 P11

J56 J56a

J56.4 P9 J57 J58.4 P8 P8.5 J59a J59.8 J59.9

WOMEN
171
558 SF

MEN
170
376 SF

TRAP PRIMER

1"DH&CW DN. IN WALL

MATCHLINE 1.5

ELEC

STORAGE

CHORAL STORAGE
160
158 SF

PRACTICE RM
168
51 SF

PRACTICE RM
169
51 SF

MUSIC LIBRARY
161

ROLL FITTINGS

CORRIDOR
165

PRACTICE ROOM
167
50 SF

PRACTICE ROOM
166
52 SF

CHORAL OFFICE
162

CHORAL
158
3326 SF

UNIFORM STORAGE
136
218 SF

J51a J52b

LOBBY
144
2832 SF

SEASONAL STORAGE
164
245 SF

VESTIBULE
165A

GALLERIA-B
130
1219 SF

TKBD

DN

AS BUILT DRAWING
8-12-16

FERGUSON
CONTRACTORS # SINCE, 1965
112 Northwest Dr., P.O. Box 430 Plainville, CT. 06062
Telephone (860) 747-4566

COMPOSITE COORDINATION

	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

PIPING

BSP – BOTTOM OF PIPE
BOI – BOTTOM OF INSULATION
SET – ELEVATION CHANGE
TOS – TOP OF STEEL
BOS – BOT OF STEEL
TOC – TOP OF CONC.
OF – CUT IN FIELD
OPG – OPENING

BV – BALL VALVE
BFV – BUTTERFLY VALVE
GV – GATE VALVE
GLV – GLOBE VALVE

PV – PLUG VALVE
BCV – BALANCING VALVE
SV – SOLENOID VALVE
AV – AUTOMATIC CONTROL VALVE
HPD – HIGH POINT DRAIN
AAV – AUTOMATIC AIR VENT
FT – FLOAT & THERMOSTATIC TRAP
BT – BUCKET TRAP
PRV – PRESSURE REDUCING VALVE
BFP – BACKFLOW PREVENTER
STR – STRAINER
LPD – LOW POINT DRAIN

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830

KEY PLAN
SCALE: NOT TO SCALE

REV.	DATE	DESCRIPTION	BY
001	8-12-16	AS BUILT DRAWING	AEC

REVISIONS

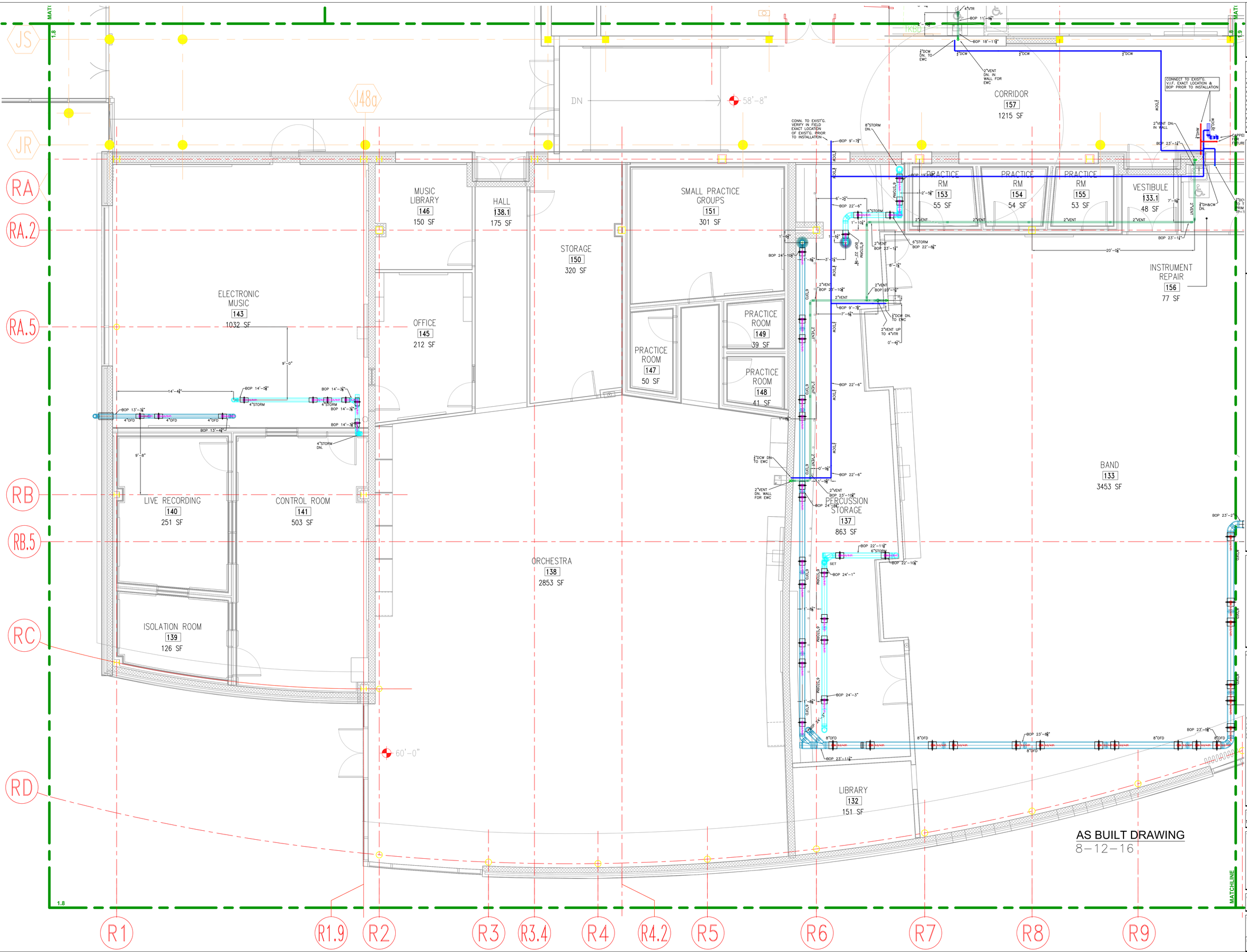
SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"		

TITLE
GROUND LEVEL PLUMBING PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
P-1.6

DATE	JOB #
09-17-13	MTCC213C



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112 Northeast Dr., P.O. Box 430 Plainville, CT. 06062
Telephone (860) 747-4566

COMPOSITE COORDINATION

	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

PIPING

BOP – BOTTOM OF PIPE
BOI – BOTTOM OF INSULATION
EXIST – EXISTING TO REMAIN
SEL – ELEVATION CHANGE
TOP – TOP OF PIPE
BOS – BOT OF STEEL
TOS – TOP OF STEEL
OIF – CUT IN FIELD
NIC – NOT IN CONTRACT

BV – BALL VALVE
BFV – BUTTERFLY VALVE
GV – GATE VALVE
GLV – GLOBE VALVE

DCV – DECK VALVE
PV – PLUG VALVE
SBV – STRAIGHT BALANCING VALVE
SV – SOLENOID VALVE
AAV – AUTOMATIC AIR CONTROL VALVE
HPD – HIGH POINT DRAIN
AV – AIR VENT
FT – FLOAT & THERMOSTATIC TRAP
FM – FLOW METER
PR – PRESSURE REDUCING VALVE
VB – VACUUM BREAKER
DCVA – DOUBLE CHECK PREVENTER
STR – STRAINER
LPD – LOW POINT DRAIN

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830

KEY PLAN
SCALE: NOT TO SCALE

REV.	DATE	DESCRIPTION	BY
001	3-7-16	ADJUSTED STORM PIPING	AEC
002	8-12-16	AS BUILT DRAWING	AEC

REVISIONS

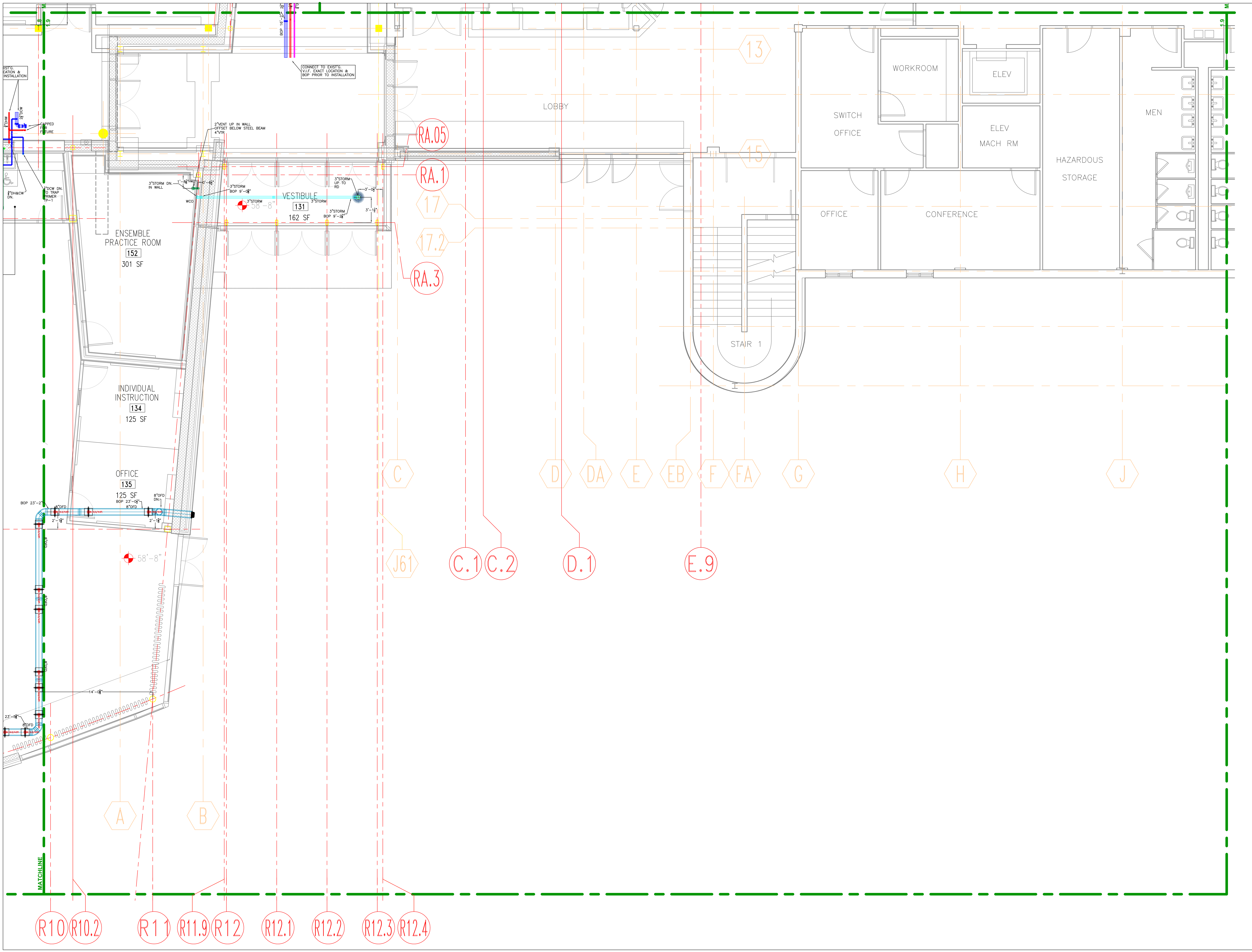
SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"		

TITLE
GROUND LEVEL PLUMBING PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
P-1.8

DATE	JOB #
09-17-13	MTCC213C


LOBBY
WORKROOM
ELEV
SWITCH OFFICE
ELEV MACH RM
MEN
HAZARDOUS STORAGE
OFFICE
CONFERENCE
STAIR 1
VESTIBULE
131
162 SF
ENSEMBLE PRACTICE ROOM
152
301 SF
INDIVIDUAL INSTRUCTION
134
125 SF
OFFICE
135
125 SF
CONNECT TO EXIST'G. V.I.F. EXACT LOCATION & BOP PRIOR TO INSTALLATION
2"VENT UP IN WALL OFFSET BELOW STEEL BEAM 4"VTR
MATCHLINE
RA.05
RA.1
RA.3
13
15
17
17.2
C
D
DA
E
EB
F
FA
G
H
J
J61
C.1
C.2
D.1
E.9
A
B
R10
R10.2
R11
R11.9
R12
R12.1
R12.2
R12.3
R12.4

FERGUSON
CONTRACTORS • SINCE 1925

COMPOSITE COORDINATION

	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830

KEY PLAN

REVISIONS

REV.	DATE	DESCRIPTION	BY
001	8-12-16	AS BUILT DRAWING	AEC

SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"		

TITLE
GROUND LEVEL PLUMBIN PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
P-1.9

DATE 09-17-13
JOB # MTCC213C

PC PC.1 PC.4 PC.6 PD PE PF PG

P1.9 P2.4 P2.5 P2.9 P3.5 P3.6 P3.7 P4.4 P4.7 P5.4 P5.5 P5.8 P5.9

5"STORM UP

5"STORM DN.

6"RADON UP & DN.

6"STORM UP & DN.

6"RADON UP THRU ROOF

MEZZANINE LOBBY
201
437 SF
73'-4"

MEZZANINE
202
2217 SF

STAIR B
201.2
266 SF

ELEV A

EEC

DN

UP

2.1 MATCHLINE 2.2

NOTE: PLAN VIEW IS ROTATE 355 DEGREES DIFFERENCE FROM CONTRACT DRAWING

AS BUILT DRAWING
8-12-16

FERGUSON
CONTRACTORS # SINCE, 1965
112 Northwest Dr, P.O. Box 430 Plainville, CT. 06062
Telephone (860) 747-4566

COMPOSITE COORDINATION

	DATE	SIGN-OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

DAMPERS
FD - FIRE/SMOKE
FSD - SMOKE
SD - MANUAL/MOTORIC
BD - BACKDRAFT
VD - VOLUME/OPPOSED BLADE
VSD - VOLUME/SINGLE BLADE
CBD - "BUTTERFLY"
MD - MITERED

DUCT
FT - FLAT ON TOP
FB - FLAT ON BOT
TD/BU - TOP &/OR BOT SP
TD/BU - TOP &/OR BOT RA
1'-0"D - TOP OF DUCT
3'-0"D - BOT OF DUCT

GREENWICH HS
AUDITORIUM & MUSIC INSTRUCT. SPACE ADDITION
10 HILLSIDE RD GREENWICH, CT 06830

KEY PLAN
SCALE: NOT TO SCALE

REVISIONS			
REV.	DATE	DESCRIPTION	BY
001	8-12-16	AS BUILT DRAWING	AEC

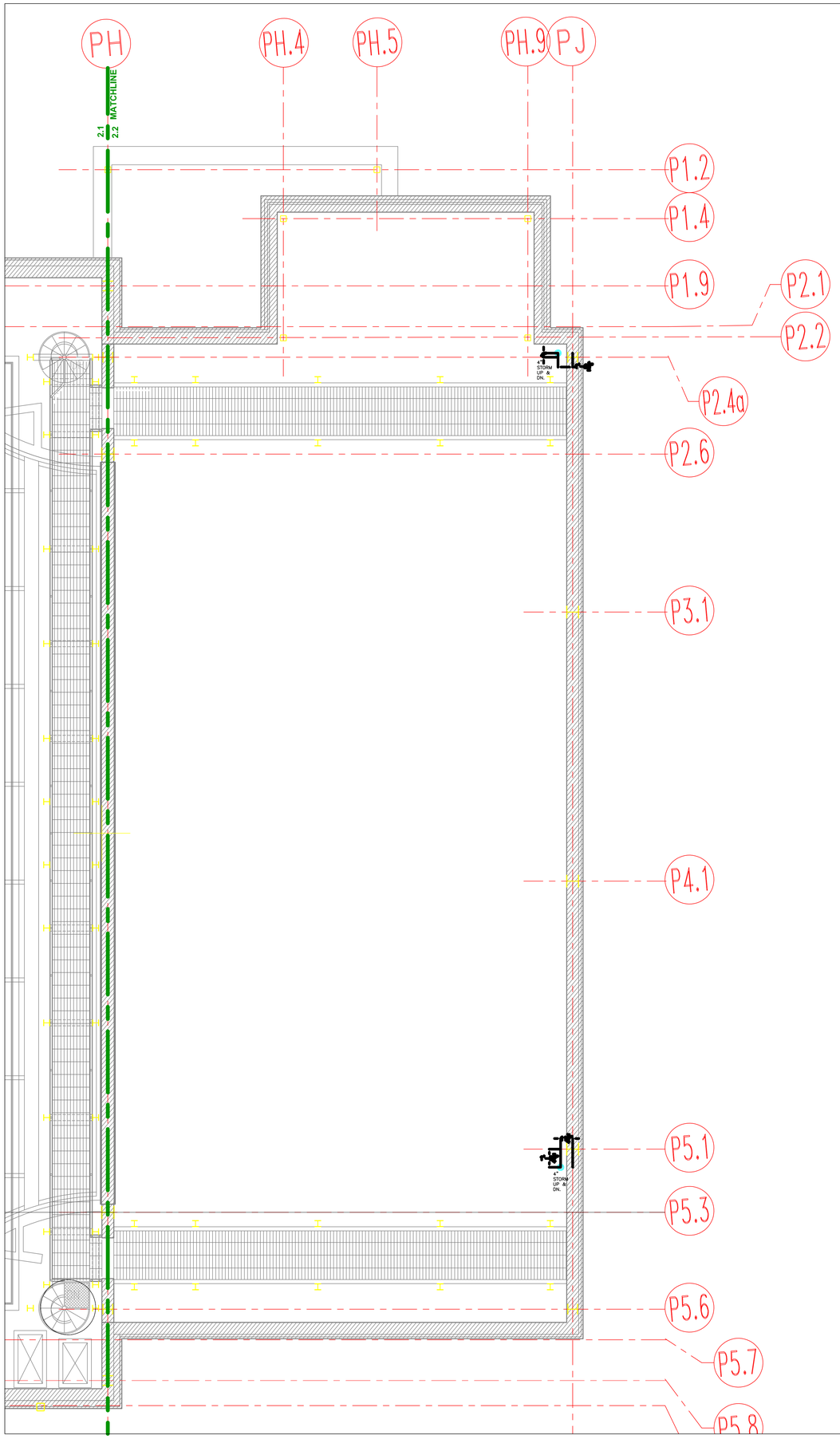
SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"		

TITLE
MEZZANINE PLUMBING PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
P-2.1

DATE	JOB #
01-15-14	MTCC213C



FERGUSON
CONTRACTORS ★ SINCE 1965
112 Northwest Dr. P.O. Box 430 Plainville, CT. 06062
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COMPOSITE COORDINATION		
	DATE	SIGN–OFF
HVAC DUCT		
HVAC PIPE		
PLUMBING		
FIRE PROT.		
ELECTRIC		
G.C.		

SYMBOL LEGEND

DUCT
FT - FLAT ON TOP
FB - FLAT ON BOT
TU/BU - TOP W/ RISE
TD/BD - TOP W/ DROP
1'-0"-0" - TOP OF DUCT
3'-0"-0" - BOT OF DUCT

DAMPERS
FD - FIRE/SMOKE
FSD - SMOKE
SD - SMOKE/FIRE
BD - BACKDRAFT
VD - VOLUME/OPPOSED BLADE
OBD - VOLUME/SINGLE BLADE
MD - MOTORIZED
SPD - SPLITTER

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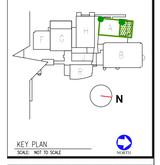

REVISIONS:			
REV.	DATE	DESCRIPTION	BY
001	8-12-16	AS BUILT DRAWING	AEC

SCALE	DRAWN BY	CHECK BY
1/4"=1'-0"		

TITLE
MEZZANINE PLUMBING PLAN

CONTRACT DRAWING NO.

SHOP DRAWING NO.
P-2.2

DATE	JOB #
8-13-14	MTCC213C

AS BUILT DRAWING
8–12–16

NOTE: PLAN VIEW IS ROTATE 355 DEGREES DIFFERENCE FROM CONTRACT DRAWING