Site Investigation Report/ Targeted Brownfields Assessment Former Woonsocket Middle School

357 Park Avenue
Woonsocket, Rhode Island

Rhode Island Department of Environmental Management

June 2013

FUSS & O'NEILL

317 Iron Horse Way
Suite 204
Providence, RI 02908

20100607.A20

FUSS & O'NEILL

June 4, 2013

Ms. Cynthia Gianfrancesco
Principal Environmental Scientist
Rhode Island Department of Environmental Management
Office of Waste Management
235 Promenade Street
Providence, RI 02908-5767

RE: Site Investigation Report/Targeted Brownfields Assessment
Former Woonsocket Middle School
City of Woonsocket Tax Assessor's 27E Lot 113-16
357 Park Place
Woonsocket, Rhode Island

Dear Ms. Gianfrancesco:

The purpose of this letter is to provide you with the attached Site Investigation Report/Targeted Brownfields Assessment for the above-referenced property. Fuss & O'Neill, Inc. (Fuss & O'Neill) prepared this report on behalf of the Rhode Island Department of Environmental Management (RIDEM), pursuant to your request. Please contact the undersigned if you have any questions or require additional information regarding this report, or the project in general.

Sincerely,

Patrick J. Dowling, CPG
Senior Project Manager

John A. Chambers, PG, LSP
Vice President

Attachments: Site Investigation Report Checklist
Site Investigation Report/Targeted Brownfields Assessment

cc: Mr. Matthew Wojcik, City of Woonsocket

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Connecticut
Massachusetts
Rhode Island
South Carolina

Section 7 of the "Remediation Regulations"
Site Investigation Report (SIR) Checklist

(The following information shall be completed and submitted with the SIR)

Contact Name: Mr. Matthew Wojcik, Director of Economic Development,
City of Woonsocket
Contact Address: 169 Main Street, Woonsocket RI 02895
Contact Telephone: 401-767-9203

Site Name: Former Woonsocket Middle School
Site Address: 357 Park Place, Woonsocket RI

OFFICE USE ONLY
SITE INVESTIGATION REPORT (SIR)SITE:
PROJECT CODE:
SIR SUBMITTAL DATE:
CHECKLIST SUBMITTAL DATE:

DIRECTIONS: *The box to the left of each item listed below is for the administrative review of the SIR submission and is for **RIDEM USE ONLY**. Under each item listed below, cross-reference the specific sections and pages in the SIR that provide detailed information that addresses each stated requirement. Failure to include cross-references shall delay review and approval. If an item is not applicable, simply state that it is not applicable and provide an explanation in the SIR.*

7.03A List specific objectives of the SIR related to characterization of the Release, impacts of the Release and remedy.

Section 1.1 lists the specific objectives of the SIR.

7.03B Include information reported in the Notification Of Release. A copy of the Release notification form should be included in the SIR. Include information relating to short-term response, if applicable.

A Notification of Release is not warranted as documented in Section 6 of the SIR.

7.03C Include documentation of any past incidents or Releases.

Section 2.7 documents previous investigations at the site.

7.03D Include list of prior property Owners and Operators, as well as sequencing of property transfers and time periods of occupancy.

Available ownership and historical operations information is provided in Section 2.1.

7.03E Include previously existing environmental information which characterizes the Contaminated-Site and all information that led to the discovery of the Contaminated- Site.

This information is provided in Section 2.

7.03F Include current uses and zoning of the Contaminated-Site, including brief statements of operations, processes employed, waste generated, Hazardous Materials handled, and any residential activities on the site, if applicable. (This section should be linked to the specific objectives section demonstrating how the compounds of concern in the investigation are those that are used or may have been used on the site or are those that may have impacted the site from an off-site source.)

Background information is summarized in Section 2.1. The objectives of the Site Investigation are included in Section 1.1.

7.03G Include a locus map showing the location of the site using US Geological Survey 7.5-min quadrangle map or a copy of a section of that USGS map.

Refer to Figure 1 for a site locus map.

7.03H Include a site plan, to scale, showing:

- Buildings
- Activities
- Structures
- North Arrow
- Wells
- UIC Systems, septic tanks, UST, piping and other underground structures
- Outdoor Hazardous Materials storage and handling areas
- Extent of paved areas
- Location of environmental samples previously taken with analytical results
- Waste management and disposal areas
- Property Lines

A site plan, depicting applicable features, is included as Figure 2.

7.03I Include a general characterization of the property surrounding the area including, but not limited to:

- Location and distance to any surface water bodies within 500 ft of the site
- Location and distance to any Environmentally Sensitive Areas within 500 ft of the site
- Actual sources of potable water for all properties immediately abutting the site
- Location and distance to all public water supplies, which have been active within the previous 2 years and within one mile of the site
- Determination as to whether the Release impacts any off-site area utilized for residential or industrial/commercial property or both
- Determination of the underlying groundwater classification and if the classification is GB, the distance to the nearest GA area

This information is provided in Section 2. The site is located within a GB groundwater area greater than 0.5 mile from a public water supply or GA area. The nearest surface water body, the Blackstone River, is located approximately 300 feet north of the site.

7.03J Include classifications of surface and ground water at and surrounding the site that could be impacted by a Release.

This information is provided in Section 2.

7.03K Include a description of the contamination from the Release, including:

- Free liquids on the surface
- LNAPL and DNAPL
- Concentrations of Hazardous Substances which can be shown to present an actual or potential threat to human health and any concentrations in excess of any of the remedial objectives; (reference Section 12 for requirements related to arsenic in soil).
- Impact to Environmentally Sensitive Areas
  Contamination of man-made structures Odors or
  stained soil
- Stressed vegetation
- Presence of excavated or stockpiled material and an estimate of its total volume
- Environmental sampling locations, procedures and copies of the results of any analytical testing at the site
- List of Hazardous Substances at the site
- Discuss if the contamination falls outside of the jurisdiction of the Remediation Regulations, including but not limited to USTs, UICs, and wetlands

A discussion of the analytical results obtained during the Site Investigation is included in Sections 4, 6, and 7. Arsenic was the only target analyte identified at a concentration above applicable regulatory criteria. As discussed in Section 6.2, arsenic in soil at the site was determined to be non-jurisdictional under the Remediation Regulations.

7.03L Include the concentration gradients of Hazardous Substances throughout the site for each media impacted by the Release.

Concentrations of hazardous substances in environmental media sampled during Site Investigation activities are discussed in Sections 4 and 6, and are included in Tables 4, 5, and 6.

7.03M Include the methodology and results of any investigation conducted to determine background concentrations of Hazardous Substances identified at the Contaminated-Site (see Section 12 for Special Requirements for Managing Arsenic in Soil).

A separate evaluation of arsenic concentrations identified during the Site Investigation was conducted in accordance with Rule 12 of the Remediation Regulations, and is discussed in Section 6.2.

7.03N Include a listing and evaluation of the site specific hydrogeological properties which could influence the migration of Hazardous Substances throughout and away from the site, including but not limited to, where appropriate:

- Depth to GW

As discussed in Section 3.2.3, groundwater was not encountered in borings advanced up to 39 feet below grade at the site.

- Presence and effects of both the natural and man-made barriers to and conduits for contaminant migration

No barriers or conduits affecting contaminant migration were identified during the investigation.

- Characterization of bedrock

Bedrock mapping is characterized in Section 2.2. Refusal, most likely due to the presence of boulder-rich glacial till, was encountered in all borings at depths between approximately 5.5 to 17 fbg, except at boring SB-2. At boring SB-2 a small-diameter solid point was driven by the Geoprobe to a depth of 39 feet without encountering refusal. Based on these results, bedrock is anticipated to be greater than 39 feet below grade at the site. Bedrock impacts were not anticipated as a result of the identified release.

- Groundwater contours, flow rates and gradients throughout the site

Groundwater was not encountered in the borings advanced at the site.

7.03O Include a characterization of the topography, surface water and run-off flow patterns, including the flooding potential, of the site

The site is not located within a mapped flood hazard area. Topography and surface water proximal to the site are discussed in Section 2.

7.03P Include the potential for Hazardous Substances from the site to volatilize and any and all potential impacts of the volatilization to structures within the site.

A soil-vapor survey was conducted as described in Sections 3.2.4, 4.3, and 6.3 to evaluate the potential for vapor intrusion into the on-site building.

7.03Q Include the potential for entrainment of Hazardous Substances from the site by wind or erosion actions.

Current risks posed by the site are described in Section 6.

7.03R Include detailed protocols for all fate and transport models used in the Site Investigation.

Fate and transport models were not prepared as part of this investigation.

7.03S Include a complete list of all samples taken, the location of all samples, parameters tested for and analytical methods used during the Site Investigation. (Be sure to include the samples locations and analytical results on a site figure).

Sample collection is discussed in Section 3 and the locations of all samples collected are depicted on Figure 2. The locations of all samples and requested laboratory analyses are included in Tables 1, 2, and 3 and Section 3.2.

7.03T Include construction plans and development procedures for all monitoring wells. Well construction shall be consistent with the requirements of Appendix 1 of the Groundwater Quality Rules.

Groundwater was not encountered in the soil borings advanced at the site. Therefore monitoring wells were not installed as part of the Site Investigation. In lieu of groundwater monitoring, a soil-gas sampling program was conducted to assess the potential for volatile contaminants to migrate into the on-site building.

7.03U Include procedures for the handling, storage and disposal of wastes derived from and during the investigation.

No wastes were derived during the investigation. Soil cuttings generated during sampling were retained on-site.

7.03V Include a quality assurance and quality control evaluation summary report for sample handling and analytical procedures, including, but not limited to, chain-of-custody procedures and sample preservation techniques.

All samples were collected and analyzed in accordance with EPA SW-846 protocols and industry standards. The sampling locations and analytes of concern were documented in a Site-Specific Quality Assurance Project Plan Addendum approved by RIDEM. A discussion of sampling techniques is included in Section 3. A discussion of data validation and usability is included in Section 5. Laboratory quality assurance information is provided in Appendix D.

7.03W Include any other site-specific factor, that the Director believes, is necessary to make an accurate decision as to the appropriate Remedial Action to be taken at the site.

No additional information has been requested at this time.

7.04 Include Remedial Alternatives. The Site Investigation Report **shall** contain a minimum of **2** remedial alternatives other than no action/natural attenuation alternative, unless this requirement is waived by the Department. It should be clear which of these alternatives is most preferable. All alternatives shall be supported by relevant data contained in the Site Investigation Report and consistent with the current and reasonably forseeable land usage, and documentation of the following:

- Compliance with Section 8 (RISK MANGEMENT);
  Technical feasibility of the preferred remedial alternative;
- Compliance with Federal, State and local laws or other public concerns; and
- The ability of the Performing Party to perform the preferred remedial alternative

Based on the results of the Site Investigation, no further action with respect to environmental conditions at the site is recommended and an evaluation of remedial alternatives is not warranted.

7.05 **Certification Requirements:** The Site Investigation Report and all associated progress reports shall include the following statements signed by an authorized representative of the party specified:

- A statement signed by an authorized representative of the Person who prepared the Site Investigation Report certifying the completeness and accuracy of the information contained in that report to the best of their knowledge; and
- A statement signed by the Performing Party responsible for the submittal of the Site Investigation Report certifying that the report is a complete and accurate representation of the site and the Release and contains all known facts surrounding the Release to the best of their knowledge

The applicable certification requirements are included in Section 8.

7.06 **Progress Reports:** If the Site Investigation is not complete, include a schedule for the submission of periodic progress reports on the status of the investigation and interim reports on any milestones achieved in the project

The site investigation is complete.

7.07 **Public Involvement and Notice:** Be prepared to implement public notice requirements per Section 7.07 and 7.09 of the Remediation Regulations when the Department deems the Site Investigation Report to be complete.

Fuss & O'Neill will conduct public notice when the Site Investigation is deemed complete by RIDEM.

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1 Introduction

1.1 Objectives

The Rhode Island Department of Environmental Management (RIDEM) retained Fuss & O'Neill, Inc. (Fuss & O'Neill) to conduct a Site Investigation (SI) and Targeted Brownfields Assessment (TBA) at the former Woonsocket Middle School (the "site") located at 357 Park Place in the City of Woonsocket, Rhode Island (Providence County). This work was conducted and funded by RIDEM at the request of the City of Woonsocket, the owner of the property, to aid in the sale and redevelopment of the subject site.

The objective of the SI/TBA documented herein was to compile environmental information regarding the subject site through research, inspections, and field work. The SI/TBA was conducted to evaluate the absence or presence of contaminants in environmental media at the subject property and to prepare a *Site Investigation Report* (*SIR*) to fulfill requirements of *Section 7.0* of the RIDEM *Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases* (*Remediation Regulations*). The work also included the evaluation of hazardous building materials within the existing school structure to evaluate the anticipated scope, magnitude, and cost of potential abatement activities.

1.2 Assessment Planning and Regulatory Approvals

RIDEM granted final authorization to commence SI/TBA activities to Fuss & O'Neill on May 31, 2011. Because this investigation was funded by the RIDEM with financing from the United States Environmental Protection Agency (USEPA) Brownfields Program, Fuss & O'Neill prepared a site-specific *Quality Assurance Project Plan* (*QAPP*) *Addendum,* prior to initiation of field activities. The *QAPP Addendum* (Revision 0.0) was submitted to RIDEM and USEPA Region 1 on April 13, 2011. A subsequent *QAPP Addendum* (Revision 1.0) was submitted to RIDEM and the USEPA Region 1 on May 13, 2011. Approval of the *QAPP Addendum* (Revision 1.0) was granted by USEPA on May 18, 2011, and by RIDEM on May 19, 2011.

Based on preliminary results obtained during the initial phases of the SI/TBA activities documented herein, , Fuss & O'Neill submitted the following modifications to the *QAPP Addendum* ("*QAPP Modifications*") to facilitate the modification of the originally proposed scope of work including the supplemental analysis of soil gas and suspect building materials:

- *Site-Specific QAPP Addendum Modification for Soil Gas Sampling*, August 25, 2011, approved by USEPA on August 30, 2011.

- *Site-Specific QAPP Addendum Modification for PCBs in Building Materials Sampling*, Revision 1.0, March 6, 2012, approved by USEPA on May 11, 2012.

The *QAPP Addendum* and subsequent *QAPP Modifications,* which were developed in accordance with the USEPA Brownfields Quality Assurance Project Plan Guidance Document, detailed the field and analytical scope and quality control procedures for the SI/TBA.

2 Background

2.1 Site Description and History

The subject site, the former Woonsocket Middle School, is identified as the City of Woonsocket Tax Assessor's Plat 27E Lot 113-16 and is located in the center of Park Place in a R4 High Density Single and Multi-family Residential zone of Woonsocket Rhode Island (Providence County). A map consisting of portions of several United States Geological Survey (USGS) topographic maps showing the subject site location is provided as *Figure 1.*

According to City records, the subject site is a 2.98-acre rectangular-shaped parcel owned by the Woonsocket Education Department. Structures located on the subject site include a three to four story, 484,546-square foot school building. According to City records, the City purchased the site in 1913 and the oldest southwestern portion of the present-day building was constructed in 1915 as the City's high school. The remainder of the building was constructed between 1925 and 1926. A site plan is provided as *Figure 2.*

Since initial development, the subject site was used as a public high school from 1915 to the 1920s, a public middle school and high school from the 1920s to the 1970's, and as a public middle school from the 1970s until the building was vacated. Use of the subject site for educational purposes ceased in January 2010 when two new middle schools constructed southeast of the subject site were opened. The subject site has been vacant since 2010, and the City is marketing the site for sale and redevelopment, most likely as a multi-unit residential facility. Currently proposed development plans by a prospective developer of the site call for demolition of portions of the building. However, these plans have not yet been finalized, and the City still maintains ownership of the site.

2.2 Geographic and Physiographic Setting

The topography of the subject site is generally flat. The regional topography generally slopes down gradually to the north, east, and west, towards the Blackstone River (USGS, 1982).

Surficial material at the subject site is mapped as Merrimac Urban Land Complex, which is described as well drained sandy loam and soil covered by streets, parking lots, buildings, and other urban structures (RIGIS, 2008). Subsurface soil encountered during the field study performed for this assessment generally consisted of yellow-brown, fine to medium sand and gravel. A thin layer of fill material consisting of fine to medium sand and gravel, with little coal and coal ash, was observed in the upper foot of soil encountered in borings SB-3 and SB-4, which were located in the paved areas adjacent to the boiler room as depicted on *Figure 2*.

Bedrock beneath the subject site is mapped as grey to pink, medium to coarse grained granite of the Esmond Igneous Suite (Hermes, et al, 1994). Depth to bedrock was not documented in available records reviewed for this assessment.

2.3 Groundwater

Groundwater beneath the site was classified by the Rhode Island Department of Environmental Management (RIDEM) as GB (RIDEM, 2010b). GB groundwater is designated to be not suitable for public or private drinking water use. GB groundwater areas are typically located beneath highly urbanized areas, permanent waste disposal areas and the area immediately surrounding the permanent waste disposal areas (RIDEM, 2010a).

Soil borings advanced during the SI/TBA encountered refusal at every boring location, with the exception of soil boring SB-2 which extended to 39 fbg. Groundwater was not encountered in any of these soil borings. Due to these subsurface conditions, groundwater monitoring wells were not installed at the site. Based on USGS mapping and the local topography and surface water hydrology, the inferred groundwater flow direction at the site is to the north, northwest, and east towards the Blackstone River.

2.4 Surface Water

The nearest surface water body, the Blackstone River, is located to the west, north, and east of the subject site. In the area northwest of the subject site, the Blackstone River is located within approximately 300 feet of the subject site, though at an elevation approximately 40 to 50 feet lower than that of the site (USGS, 1982). The Blackstone River was classified by RIDEM as Class B1 surface water (RIDEM, 2010c).

Class B1 waters are designated for primary and secondary contact recreational activities and fish and wildlife habitat. They should be suitable for compatible industrial processes and cooling, hydropower, aquacultural uses, navigation, and irrigation and other agricultural uses. These waters should have good aesthetic value. Primary contact recreational activities may be impacted due to pathogens from approved wastewater discharges. However, all Class B criteria must be met (RIDEM, 2010c).

According to Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Panel #44007C0069G, the subject site was not located within a flood hazard area.

2.5 Location of Public Water Supply Sources

The Groundwater Classification & Wellhead Protection Area Maps of the Blackstone, Franklin, Georgiaville, and Pawtucket quadrangles, available from RIDEM, showed no public water supply wells or wellhead protection areas (WHPAs) within a one-half mile radius of the subject site.

2.6 Potential Receptors

Occupants and visitors of the site building and nearby residential properties which abut the site to the north, south, east and west were considered potential receptors of contamination potentially present at the site. The activities conducted by individuals working at, visiting, or trespassing at the site should be evaluated under current and foreseeable uses to determine whether compounds present in the subsurface pose a risk to those individuals.

2.7 Previous Environmental Investigations

On behalf of RIDEM, Fuss & O'Neill completed a Phase I Environmental Site Assessment (ESA) for the site in February 2011 as part of the SI/TBA process. Additional detail regarding the history of the site was included in the *Phase I ESA Report* submitted to RIDEM on February 8, 2011. The Phase I ESA identified the following Recognized Environmental Conditions (RECs) associated with the site:

- REC No. 1: USTs – A FirstSearch environmental database report, RIDEM files, Fire Department records, and the key site manager, Mr. Peter Fontaine, all reported the former presence of one or two underground storage tanks (USTs) at the subject site. One 10,000 gallon fuel oil UST was reportedly installed at the site in 1957 and removed from the site in 1998. According to RIDEM files, soil containing petroleum was observed in the UST grave during removal. In addition, two vent pipes were observed near the boiler room in the western portion of the parking area, near the former location of this UST, during the site inspection conducted as part of the Phase I ESA. According to Mr. Steve Preston, the hazardous materials specialist for the Woonsocket Fire Department at the time the assessment was completed, Fire Department records indicated that, in addition to the 10,000 gallon fuel oil UST removed in 1998, a second 10,000 gallon UST was reportedly installed at the site in 1989. The Fire Department records further indicated that the second 10,000 gallon UST was also closed. However, the presence, location, contents, or closure history of the second potential UST could not be confirmed during the Phase I ESA. Potential releases of petroleum associated with the historical operation of USTs at the site were identified as having the potential to have had a negative impact on the environmental quality of the site.

- REC No. 2: Hazardous Materials – Throughout the interior of the building, numerous containers of hazardous materials, including paints, finish, sealants, formaldehyde, methanol, paint thinner, acids, and other laboratory and cleaning chemicals were observed in storage rooms, class rooms, and maintenance areas. These materials were generally stored in containers less than five gallons in volume. However, one 55-gallon drum, approximately one-quarter full of an unknown substance, was present in a basement storage room along the north side of the building. In addition, an isolated mercury spill was reported within two storage closets on the third floor of the building in 2009. According to the RIDEM Emergency Response Report and a post-remediation letter documenting the cleanup activities prepared by Marshall Environmental, the releases of mercury were satisfactorily cleaned up by Marshall Environmental, under the direction of the RIDEM.

- REC No. 3: Hazardous Building Materials – A visual inspection for hazardous building materials, including asbestos containing materials (ACM), lead-based paint, polychlorinated biphenyl (PCB) containing materials, and mercury containing materials, concluded that these hazardous materials were likely present in significant quantity throughout the site building. Further inspections and appropriate characterization of building materials containing these hazardous substances were recommended to facilitate abatement planning prior building demolition activities which may be conducted as part of site redevelopment.

2.8 SI/TBA Timeline and Regulatory Status

The investigation timeline and regulatory status of the subject site is summarized below:

Phase I ESA:

- February 8, 2011: Fuss & O'Neill submitted the *Phase I ESA Report* to RIDEM.

Site-Specific QAPP Addendum:

- April 13, 2011: Fuss & O'Neill submitted a site-specific *QAPP Addendum* (Revision 0.0) to USEPA and RIDEM.
- May 13, 2011: Fuss & O'Neill submitted a revised site-specific *QAPP Addendum* (Revision 1.0) to USEPA and RIDEM.
- May 19, 2011: RIDEM and USEPA approved the *QAPP Addendum* for the SI/TBA.

Public Notice Activities and Commencement of SI/TBA:

- June 14, 2011: Fuss & O'Neill conducted public notice to all abutting property owners and tenants that the environmental assessment would commence. The field study portion of the SI/TBA subsequently commenced on June 23, 2011.

QAPP Modification and Soil-Gas Sampling:

- August 25, 2011: Fuss & O'Neill submitted a *QAPP Modification* to USEPA to eliminate groundwater sampling and add soil-gas sampling to the SI/TBA Scope of Work.
- August 30, 2011: USEPA approved of the soil-gas *QAPP Modification*.
- September 19, 2011: Fuss & O'Neill collected soil-gas samples at the site.

QAPP Modification and Supplemental Sampling of Building Materials:

- November 1, 2011: Fuss & O'Neill submitted a *QAPP Modification* (Revision 0.0) to USEPA to collect and analyze additional building materials for PCBs.
- March 6, 2012: Fuss & O'Neill submitted a revised *QAPP Modification* (Revision 1.0) to USEPA to support the collection and analysis of additional building materials for PCBs.
- May 11, 2012: USEPA approved of the building materials *QAPP Modification*.
- June 11, 2012: Fuss & O'Neill collected the additional samples of building materials from the site building for analysis of PCBs.

2.9 Contaminants of Concern

Based upon the known historical and current uses of the site, the following potential contaminants of concern and the associated laboratory analytical method were identified by Fuss & O'Neill. Identification of these contaminants and associated field and analytical programs were documented in the RIDEM and USEPA-approved *QAPP Addendum* and *QAPP Modifications*:

Soil:

- Volatile organic compounds (VOC) via USEPA Method 8260, including preservation by Method 5035
- Semi-volatile organic compounds (SVOC) via USEPA Method 8270
- 16 Metals – antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, thallium, vanadium, and zinc via USEPA Methods 6010/7471
- Total petroleum hydrocarbons (TPH) via USEPA Method 8100
- PCBs via USEPA Method 8082

Groundwater:

- VOC via USEPA Method 8260
- SVOC via USEPA Method 8270
- 16 Metals via USEPA Methods 6010/7470

Soil Gas:

- VOC via USEPA Method TO-15

Hazardous Building Materials:

Potentially hazardous building materials located within the on-site structures were also a concern for redevelopment planning purposes. The assessment of building materials is presented in a separate *Hazardous Building Materials Inspection Report* attached as *Appendix C.* The contaminants of concern for building material assessment included:

- Asbestos via Polarized Light Microscopy (PLM) and Transmission Electron Microscopy (TEM)
- Lead-based paint via X-ray fluorescence (XRF) and USEPA Method 6010B
- Lead-based paint/waste characterization via Toxicity Characteristic Leaching Procedure (TCLP)
- PCB via USEPA Method 8082

3 Site Investigation

3.1 Public Notice Activities

In accordance with *Section 7.07(A)* of the RIDEM *Remediation Regulations*, Fuss & O'Neill conducted public notice activities in June 2011. As part of public notice activities, Fuss & O'Neill mailed letters to owners and tenants of abutting properties and other municipal stakeholders notifying them of the pending commencement of SI/TBA activities. Copies of public notice materials are attached as *Appendix A*.

According to RIDEM Environmental Resource mapping, the site was not located within an Environmental Justice Focus Area, so enhanced public communication activities were not required in accordance with *Section 7.07* of the *Remediation Regulations*.

3.2 Site Investigation Field Activities

The SI/TBA scope of work, *QAPP Addendum,* and *QAPP Modifications* were developed to facilitate the investigation of potential for impacts due to the RECs identified in the February 2011 *Phase I ESA* and summarized in *Section 2.7* of this document. Fuss & O'Neill commenced field activities at the site in June 2011. Field activities were conducted in several mobilizations and were completed by June 2012. Field activities were conducted in accordance with the RIDEM and USEPA-approved QAPP documents listed in *Section 2.8*, and summarized below.

3.2.1 Ground Penetrating Radar (GPR) Survey

On June 23, 2011, Fuss & O'Neill conducted a ground-penetrating radar (GPR) survey at the site. The objective of the GPR survey was to determine if USTs were present within the paved parking areas and landscaped areas, particularly focusing on the area surrounding the boiler room on the west side of the building. A memorandum documenting the horizontal extents, methodology, and results of the GPR survey is attached as *Appendix B.*

Based on the GPR records, no anomalies indicative of USTs were identified in the GPR target assessment area.

3.2.2 Soil Borings

Fuss & O'Neill conducted a soil boring program at the subject site on June 28, 2011. Eight soil borings, designated SB-1 through SB-8, were advanced at selected locations throughout the subject site utilizing a direct-push Geoprobe® drilling rig operated by a licensed Fuss & O'Neill driller. Soil boring locations are depicted on *Figure 2*.

Soil borings were advanced to depths ranging from 5.5 to 39 feet below grade (fbg). Refusal, likely due to the presence of bedrock or boulder-rich glacial till, was encountered in all borings at depths between approximately 5.5 to 17 fbg, except at boring SB-2. At boring SB-2 a small-diameter solid point was driven by the Geoprobe to a depth of 39 feet without encountering refusal.

During boring advancement, continuous soil logs were generated by a Fuss & O'Neill geologist. Soil samples collected from throughout the soil column were inspected, characterized, and field-screened for the presence of total VOC using a Photo Ionization Detector (PID).

Up to two soil samples were collected from each soil boring for laboratory analysis. One duplicate soil sample was collected from soil boring SB-6 for quality control purposes. Soil samples were submitted to Premier Laboratory of Dayville, Connecticut (Premier) for the suite of analyses specified in *Section 2.9*. A summary of soil sampling activities is included in *Table 1* below:

Table 1
Summary of Soil Sampling Activities

Location	Sample Depth (fbg)	Sample Number	Analyses
SB-1	0.2-3	28-07	VOC SVOC 16 metals TPH PCB
	5-9	28-08	
SB-2	0.4-5	28-05	
	20-24	28-06	
SB-3	1-5	28-03	
	10-13	28-04	
SB-4	1-5	28-02	
SB-5	0.2-2	28-01	
SB-6	0.8-5	28-11	
		28-12 (Duplicate)	
	7-8	28-13	
SB-7	0.2-5	28-09	
	5-5.5	28-10	
SB-8	0.2-2	28-14	
	5-7	28-15	

Notes: SB: soil boring
Sample ID: Only the last 4 digits of the sample identification number are listed.

3.2.3 Groundwater

The scope of work detailed in the original *QAPP Addendum* included the advancement of eight soil borings to depths several feet below the observed water table, and the installation of six groundwater monitoring wells at select soil boring locations. However, during the advancement of the proposed soil borings with the Geoprobe drill rig, consistent refusal was encountered at every boring location, with the exception of soil boring SB-2 which extended to 39 fbg. Groundwater was not encountered during advancement of any of soil borings.

Due to the subsurface conditions encountered during the implementation of the soil boring program, groundwater monitoring wells were not installed at the site. As a result of these site conditions, the originally anticipated scope of work was modified to include the implementation of a soil gas sampling program, in lieu of the originally proposed monitoring well installation and groundwater sampling activities.

3.2.4 Soil Gas

On September 19, 2011, Fuss & O'Neill personnel completed a soil gas sampling program at the site. The objective of the soil gas survey was to evaluate whether a vapor intrusion risk, associated with potential soil or groundwater contamination, was present at the site.

As part of this program, temporary stainless-steel soil gas sampling rods were advanced at seven locations throughout the subject site and designated SG-1 through SG-7, as depicted on *Figure 2*. Three of the seven soil gas sampling points were located in interior building spaces, including the boiler room and

former boiler room at the site where coal, oil, and natural gas were historically utilized to heat the site building. The remaining samples were collected from exterior locations at the site.

Sample rods were driven using a hammer drill to a depth of approximately 2.5 to 3 feet below the ground surface or below the elevation of the concrete slab for indoor locations. An electrostatic vacuum pump was used to purge ambient vapors from the sample rod for approximately five to ten minutes. An air sample was then collected from the sample rod using dedicated PTFE tubing connected to a SUMMA Canister. Each SUMMA Canister was equipped with a regulator calibrated to a flow rate of approximately 200 milliliters per minute (mL/min), for approximately 30 minutes of sampling time.

Eight soil gas samples, including one duplicate sample, were submitted to Accutest Laboratories of Woburn, Massachusetts (Accutest) for analysis of VOC by USEPA Method TO-15. A summary of soil gas sampling activities is included in *Table 2* below:

Table 2
Summary of Soil Gas Sampling Activities

Location	Sample Depth (fbg)	Sample Number	Analyses
SG-1	3	19-03	VOC by USEPA Method TO-15
SG-2	3	19-02	
SG-3	2.5	19-01	
SG-4	3	19-07	
		19-08 (Duplicate)	
SG-5	3	19-06	
SG-6	2.5	19-04	
SG-7	3	19-05	

Notes: SG: soil gas
Sample ID: Only the last 4 digits of the sample identification number are listed.

3.2.5 Hazardous Building Materials Inspection and Sampling

During July and August 2011, Fuss & O'Neill personnel performed a hazardous building materials inspection and limited sampling program for the presence of asbestos containing materials (ACM), lead-based paint, and PCB-containing materials. Based on the initial results of the PCB analyses, in June 2012, Fuss & O'Neill collected additional samples of bulk materials and substrates that were considered potential PCB source materials.

Detailed information regarding the hazardous building sampling activities, results, and potential abatement cost is included in the *Hazardous Building Materials Inspection Report* prepared by Fuss & O'Neill and attached as *Appendix C*.

3.2.6 Summary of Quality Control Samples

Four quality control samples were collected and analyzed as part of the soil and soil gas field sampling activities documented herein. Additional quality control samples associated with the hazardous building material sampling activities are discussed separately in the *Hazardous Building Materials Inspection Report* attached as *Appendix C*.

The quality control samples were collected in accordance with the *QAPP Addendum* and *QAPP Modifications* prepared for the assessment. The details of each quality control sample collected during the assessment are summarized below in *Table 3*. The trip blanks were analyzed for VOC only, while the duplicates were analyzed for the contaminants of concern for that matrix. All field equipment was dedicated, and field decontamination of equipment was not necessary. Therefore, no equipment or field blanks were collected.

Table 3
Summary of Quality Control Samples

Duplicate Samples	
Sample Media and ID	Sampling Location
Soil: #28-12	SB-6
Soil Gas: #19-08	SG-4
Trip Blanks	
Sample ID	Associated Investigation
#28-16, #28-17	Soil sampling
Equipment Blanks	
None	
Field Blanks	
None	

Note: Only the last four or six digits of the sample number are listed.

An analysis of data usability is included in *Section 5.1*. This analysis includes an evaluation of the analytical results for the trip blanks, equipment blank, and the primary/duplicate pairs.

4 Investigation Results

4.1 GPR Survey

A memorandum documenting the results of the GPR survey is attached as *Appendix B.* Based on the GPR records, no anomalies indicative of USTs were identified within the survey area.

4.2 Soil Borings

Soil boring logs are included in *Appendix D* and soil boring locations are depicted on *Figure 2*.
Soil observed in the soil borings advanced throughout the site consisted of sandy gravel. Loose sand with traces of concrete, coal, and coal ash was observed in the uppermost few inches of one soil boring just beneath the concrete/pavement of borings SB-3 and SB-4, located near the boiler room.

Soil samples from all borings were continuously screened for VOC throughout the soil column using a PID. VOC concentrations were below the instrument detection limit of 0.1 parts per million by volume (ppmv) in all of the screened samples. No visual or olfactory evidence of a release of petroleum or hazardous materials (i.e. odors, staining) was observed in the soil recovered from each boring.

Fourteen primary soil samples and one duplicate sample were collected from the eight soil borings advanced at the site. Each of the soil samples was submitted to Premier for analysis of VOC, SVOC, 16 metals, TPH, and PCBs. Analytical results of these samples are summarized in *Table 4*. The complete Premier analytical data reports are attached in *Appendix E*.

One or more SVOC were detected at concentrations exceeding laboratory reporting limits in four of the 15 soil samples collected from the soil borings at the site. The SVOC detected at concentrations exceeding laboratory reporting limits consisted of the following polycyclic aromatic hydrocarbons (PAH):

- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Chrysene
- Fluoranthene
- Indeno (1,2,3-cd)pyrene
- Phenanthrene
- Pyrene

Up to 13 individual metals were detected at concentrations exceeding the laboratory reporting limits in each of the samples.

TPH was detected at concentrations exceeding the laboratory reporting limits in five of the 15 soil samples. The detected petroleum fraction was reported as C16-C36 heavy petroleum distillate.
No VOC or PCBs were detected at concentrations exceeding the laboratory reporting limits in any of the soil samples.

4.3 Soil Gas

The soil-gas sampling program was implemented in accordance with the *QAPP Modification* approved by USEPA on August 30, 2011. Each of the seven primary and one duplicate soil-gas samples were submitted to Accutest for analysis of VOC by USEPA Method TO-15. Analytical results of these samples are summarized in *Table 5*. The complete Accutest analytical data report is attached in *Appendix E*.

As summarized in *Table 5*, each soil-gas sample was reported to contain multiple VOC at concentrations exceeding laboratory reporting limits.

4.4 Hazardous Building Materials Inspection and Sampling

The detailed results of the building materials investigation is included in the attached *Hazardous Building Materials Assessment Report* included in *Appendix C*. This report indicates the following:

- Asbestos was found in the buildings present at the site in materials such as caulking, glazing, cement board, loose materials, floor tile, roofing materials, and piping insulation.
- Materials from the site buildings including brick walls, door components, ceiling materials, and window components, all screened positive for lead at concentrations exceeding 1.0 milligrams per square centimeter (mg/cm^2). As an industry standard, painted surfaces with an XRF screening result greater than 1.0 mg/cm^2 are typically expected to exceed the lead-free standard of 150 mg/kg for residential and child-care facilities by the Rhode Island Department of Health.
- Two samples of a homogeneous brown, interior window caulk material were reported to contain total PCB concentrations of 3.5 milligrams per kilogram (mg/kg) and 4.2 mg/kg, respectively.
- Reported PCB concentrations in the substrate samples associated with the brown window caulk were below 50 mg/Kg. The brown interior window caulk was therefore considered to meet the definition of an Excluded PCB Product under the Toxic Substances Control Act (TSCA).

5 Data Verification and Usability

5.1 Data Verification

Fuss & O'Neill conducted modified Tier II data verification of the field and analytical data resulting from the assessment documented herein. Modified Tier II verification narratives, as well as modified Tier II data validation checklists, are attached to each laboratory analytical report in *Appendix E*.

Analyses Requested

During the course of the sampling events conducted at the subject property, 23 total samples of environmental media (excluding building materials) were collected and analyzed: 15 soil samples, including one duplicate, and eight soil vapor samples, including one duplicate. Two trip blanks were also submitted with the soil samples for analysis. Requested analytical parameters included:

Requested analytical parameters were selected from the following list, depending on the sample matrix:

- VOC by USEPA Method 8260
- VOC by USEPA Method TO-15
- SVOC by USEPA Method 8270
- 16 total metals by USEPA Methods 6010 and 7471
- TPH by USEPA Method 8100
- TCLP lead by USEPA Methods 1311 and 6010
- PCBs by USEPA Method 8082
- PCBs by USEPA Method 8082 with Soxhlet Extraction by USEPA Method 3540

Based on a review of the proposed scope of work detailed in the *Site Specific QAPP Addendum* and QAPP Modifications, the field sampling data sheets, chains of custody, and resulting laboratory analytical reports, each of the collected samples were analyzed for the appropriate set of analytical parameters.

Sample Holding Times

According to information contained within the laboratory analytical data reports, all samples were analyzed within method-specified holding times.

Trip Blank Samples

The sampling program included the collection of samples for VOC analysis on two separate days. Therefore, a total of two trip blanks were submitted for analysis for this investigation. All submitted trip blanks were analyzed for VOC by USEPA Method 8260. No compounds were detected at concentrations exceeding the laboratory reporting limits in any of the trip blanks.

Field Blank Samples

Dedicated or disposable sampling equipment (e.g., VOC core samplers, gloved hand, acetate Geoprobe® sleeves, razor blades, etc.) was used for all environmental samples collected at the site. Therefore, no equipment required field decontamination and no equipment or field blanks were collected.

Duplicate Samples

Duplicate samples were collected at the frequency detailed in the QAPP of one duplicate per 20 primary samples per matrix over the course of the project. In conformance with the QAPP, two duplicate samples, one duplicate soil sample and one duplicate soil gas sample, were collected and submitted for the

same analytical parameters as the primary sample (dependent upon contaminants of concern for the sample matrix).

Duplicate analytical results are summarized in the attached data tables and included in *Appendix E.* Results of the primary and duplicate soil samples exhibited relative percent differences (RPD) less than 30%, with the exception of the TPH result which exhibited an RPD of 35%. The elevated RPD for TPH was attributed to sample heterogeneity and matrix interferences and is not expected to affect the usability of the data. Furthermore, the reported TPH primary-duplicate results, 30 mg/Kg and a non-detect result with a reporting limit of 21 mg/Kg, were approximately 20 times less than the applicable RIDEM Residential Direct Exposure Criteria for TPH of 500 mg/Kg.

Results of the primary and duplicate soil gas samples exhibited RPDs generally below 30%, with two exceptions. Two of the detected VOC, tetrachloroethene and methylene chloride exhibited RPDs of 43% and 75% respectively. However, the reported concentrations of tetrachloroethene and methylene chloride were approximately 10 to 100 times below the reference criteria utilized for this project (identified in *Section 5.2* below). Due to the reported concentrations, none of the VOC detected in soil gas samples were considered to be constituents of concern at the site, and these observed variations in RPDs were not anticipated to have a significant negative affect on the usability of these sample results.

5.2 Detection Limits and Applicable Regulatory Criteria

Based upon the current and foreseeable use of the subject site, the analytical results were compared to the following regulatory criteria:

Soil:

- RIDEM Method 1 Residential Direct Exposure Criteria (R-DEC)
- RIDEM Method 1 Industrial/Commercial Direct Exposure Criteria (I/C-DEC)
- RIDEM Method 1 GB Leachability Criteria (GB-LC)
- Upper Concentration Limits (UCL)

Groundwater:

- RIDEM Method 1 GB Groundwater Objectives (GB-GO)

Soil Gas:

- RIDEM has not promulgated default standards for soil gas. Therefore, analytical data for soil gas samples were compared to the Residential Soil Vapor Volatilization Criteria (R-SVVC) from the 2003 Proposed Revision to the Connecticut Department of Energy and Environmental Protection (CTDEEP) *Remediation Standard Regulations* as reference criteria to initially evaluate the data.

Premier and Accutest provided reporting limits low enough to allow for direct comparison between the analytical data and the regulatory and reference criteria listed above.

5.3 Data Usability

The SI/TBA documented herein was conducted in accordance with the QAPP documents referenced in *Section 1.2*. The soil and soil-gas analytical dataset generated by the SI/TBA was considered to be of sufficient quality to be usable for evaluating the environmental condition of the site for compliance with the applicable regulatory and reference criteria listed in *Section 5.2*.

6 Data Analysis and Risk Characterization

6.1 Soil Data Analysis and Risk Characterization

Analytical results for the soil samples collected and analyzed during this assessment are summarized in *Table 4.* These soil results were compared to the RIDEM Method 1 R-DEC, the I/C-DEC, and the GB-LC.

Laboratory analytical results indicated that none of the individual VOC, SVOC, PCB, TPH, or metals compounds included in the requested analyses were reported by the laboratory in soil samples at concentrations greater than the applicable regulatory criteria, with the exception of arsenic. Arsenic was detected in six soil samples collected at concentrations in excess of the Method 1 R-DEC and I/C-DEC of 7.0 mg/kg. Further discussion and evaluation of the presence of arsenic in sit soil is included below.

6.2 Evaluation of Arsenic in Soil

Arsenic was the only individual analyte that was reported in any of the soil samples at concentrations exceeding the applicable RIDEM criteria. Arsenic exceedances were reported at depths ranging from the ground surface to eight fbg. The site history, geologic conditions, field screening, and laboratory analytical data set did not identify a potential source of an arsenic release at the site. Based on these multiple lines of evidence, the presence of arsenic in soil samples collected from the site was attributed to naturally-occurring background levels of arsenic. Further evidence to support this evaluation is discussed below.

Application of Rule 12.0

Arsenic was the only contaminant of concern identified in soil at the site at concentrations greater than the Method 1 R-DEC and I/C-DEC. Therefore, Fuss & O'Neill evaluated the arsenic results in accordance with Rule 12 of the RIDEM *Remediation Regulations – Special Requirements for Managing Arsenic in Soil*. The results of this evaluation, summarized below, were detailed in a memorandum prepared by Fuss & O'Neill and submitted to RIDEM on February 29, 2012.

A total of 15 soil samples (14 primary samples and 1 duplicate sample) were collected and analyzed for 16 Metals, PCB, TPH, SVOC, and VOC at Premier Laboratory. The laboratory results of the soil analyses indicated that none of the compounds included in this analytical suite were reported at concentrations greater than the associated Method 1 R-DEC, except for arsenic. Arsenic was reported at concentrations in excess of R-DEC and I/C-DEC of 7.0 mg/kg in the following samples:

- SB-04, 1-5 fbg (Sample #841110628-02)
- SB-05, 0.2-2 fbg (Sample #841110628-01)
- SB-06, 0.8-5 fbg (Sample #s 841110628-11, -12)
- SB-06, 7-8 fbg (Sample #841110628-13)
- SB-07, 0.2-5 fbg (Sample #841110628-09)
- SB-07, 5-5.5 fbg (Sample #841110628-10)

In accordance with Rule 12, a compliance evaluation was conducted to evaluate whether the detected concentrations of arsenic in soil were consistent with state background levels (Rule 12.03) or if the detected concentrations represent a jurisdictional release of arsenic which would be subject to the remedial requirements detailed in Rule 12.04 of the *Remediation Regulations*. A summary table outlining the results of the compliance evaluation for arsenic in soil at the site, completed in accordance with Rule 12.03 is attached as *Table 6*.

As detailed in Rule 12.03, three statistical conditions can be utilized to enable a determination that the concentrations of arsenic in soil samples collected at the site are consistent with state background levels, and hence non-jurisdictional under the *Remediation Regulations*. Each of these three conditions and the corresponding evaluation of site arsenic conditions are summarized below:

Rule	Requirement	Site Condition
12.03 (A)	No individual arsenic result shall be greater than 15 ppm	None of the reported arsenic results in the data set were greater than 15 ppm.
12.03 (B)	No greater than 25% of arsenic results shall exceed 7.0 ppm	42% of the results in the arsenic data set were greater than 7.0 ppm
12.03 (C)	The average of all arsenic results shall be 7.0 ppm or less	The arsenic data set average was calculated to be less than 7.0 ppm

As indicated in the summary above, the arsenic data set for the site was in compliance with rule 12.03(A) and 12.03(C). However, since more than 25% of the results were greater than 7.0 ppm, the data set does not appear to be in strict compliance with this component of the rule.

The apparent lack of compliance with Rule 12.03(B) might suggest that one of the remedial options detailed in Rule 12.04 would be appropriate for the site. However, as the title of Rule 12.04(A) clearly indicates, the lowest tier of the remedial options was intended for the remediation of "Average Source Area arsenic levels between 7 and 15 ppm". As the average concentration of the arsenic data set for the Middle School site is in fact below 7 ppm, this remedial step may not be warranted.

Additionally, the investigation results suggest that the presence of arsenic in soil samples collected from the site is likely representative of background conditions, and not representative of an anthropogenic release of hazardous materials. Several lines of evidence observed during the investigation support this conceptual site model. These observations include the following:

1. Each of the soil samples collected was analyzed for a comprehensive suite of potential contaminants of concern, including 16 Metals, PCBs, TPH, SVOC, and VOC. None of the

individual contaminants included in these analyses were reported in any of the soil samples at concentrations exceeding the associated R-DEC, except for arsenic.

2. The vertical and horizontal distribution of the reported arsenic concentrations does not support a point source release, agricultural pesticide application, or atmospheric deposition model. This is supported by the fact that the reported concentrations of arsenic in soil did not appear to significantly vary with depth. The calculated average arsenic concentration for shallow samples (i.e. 0-5 fbg) was 7.19 ppm, while the average for deeper samples (i.e. 5-24 fbg) was 6.35 ppm. These differences are not statistically significant.

3. Also, field observations and analytical results do not support an urban fill release mechanism. Soil beneath the site was observed to consist of light yellowish brown fine to medium sand and gravel and for the most part did not exhibit evidence of having been disturbed. Evidence of reworked soil/fill was observed within the upper few inches, directly below paved/concrete surfaces in two soil borings installed in the parking lot area adjacent to the boiler room (SB-03 and SB-04). This material was most likely used as base material for the overlying pavement and concrete surface. Geologic conditions everywhere else on site were consistent and the horizontal and vertical arsenic distribution was generally uniform throughout the subsurface..

4. The site does not have a history of industrial use, has been utilized as a school for almost 100 years, and is located within a fully developed residential neighborhood on top of naturally-occurring high ground with an elevation higher than the Blackstone River channel and flood plain. These site characteristics and history do not support an anthropogenic release model for the presence of arsenic in site soil.

All of the data detailed above suggests that the presence of arsenic in soil at the site is representative of naturally-occurring background conditions. Additionally, since the site-wide average arsenic concentration is less than the threshold at which Rule 12.04 indicates the need for remedial response actions, further remedial actions may not be warranted.

In an email communication dated March 15, 2012, addressed to Mr. Patrick J. Dowling of Fuss & O'Neill, Ms. Cynthia Gianfrancesco of the RIDEM Office of Waste Management, after evaluation of the site specific conditions and data with others within the RIDEM, conceptually agreed with Fuss & O'Neill's position that the arsenic results for soil samples collected from the site represented a background condition, and that the site therefore should be considered as non-jurisdictional under the Remediation Regulations.

6.3 Soil Gas Data Analysis and Risk Characterization

Analytical results for the soil gas samples are summarized in *Table 5*. The analytical results were compared to the CTDEEP R-SVVC standards as discussed in *Section 5.2*.

Reported VOC concentrations for all detected compounds were less than the corresponding R-SVVC. In fact, each of the reported VOC concentrations were greater than two orders of magnitude less than the corresponding R-SVVC. These data do not suggest that a vapor migration concern is present at the site.

6.4 Building Materials

A detailed evaluation of the results of the building material assessment is included in the *Hazardous Building Materials Assessment Report* attached as *Appendix C*. This report indicates that materials within the on-site building contains ACM, lead-based paint, and PCBs.

The concentrations of ACM, lead and PCBs in building materials may warrant removal and off-site disposal in accordance with state and federal law, as described in *Appendix C*.

7 Conceptual Site Model and Conclusions

The objective of the SI/TBA activities described herein was to complete the *SIR/TBA* in accordance with the requirements of Section 7.00 of the RIDEM *Remediation Regulations*. These investigations consisted of the collection and laboratory analysis of samples of soil, soil-gas, and hazardous building materials. Results of the SI activities indicated that environmental media at the subject site were sufficiently characterized in accordance with the RIDEM *Remediation Regulations*.

Based on the data presented herein, a conceptual site model for the environmental concerns identified at the site was developed, and presented below:

Based on the results of a comprehensive Phase I ESA and in accordance with a RIDEM and USEPA-approved assessment scope of work and QAPP, a Site Investigation was conducted at the site that included the advancement of nine soil borings, the collection of 15 soil samples, eight soil gas samples, and numerous building materials samples.

<u>Building Materials Assessment Conclusions</u>

As building materials are not regulated under the jurisdiction of the RIDEM site remediation program, a separate report of findings detailing those activities has been prepared and attached as *Appendix C,* and only a summary of those activities is documented herein for reference.

As documented in the *Hazardous Building Materials Inspection Report,* building materials at the site were documented to contain hazardous materials, including asbestos, lead, and PCBs. Therefore, hazardous building materials, including those materials that will be disturbed during future building renovation, will need to be managed in a manner consistent with applicable RIDOH and USEPA regulations to mitigate potential risks posed to renovation workers, futures site users, and off-site receptors.

No further action on the part of the RIDEM Site Remediation Program is warranted in regards to building materials at the site.

Soil Gas, Groundwater, and Soil Quality Conclusions

Field screening and laboratory analytical results of soil gas did not support a conclusion that soil gas samples contained concentrations of VOC that exceeded applicable soil gas reference criteria utilized to evaluate the results.

As the site is situated within an area underlain by groundwater classified by RIDEM as GB, the primary concern associated with the potential presence of contaminants in groundwater was the potential for VOCs to volatilize and migrate upwards into the overlying building by means of soil vapor intrusion. In lieu of the collection of groundwater samples during this assessment, a soil gas investigation was conducted to directly measure the quality of soil gas beneath the site to evaluate if VOC may be present in soil or groundwater at concentrations that have the potential to negatively affect the indoor air quality of the existing or future buildings at the site. As detailed above, the results of the soil gas analyses did not provide evidence that such a condition exists at the site.

Additionally, none of the 15 soil samples collected at the site contained any of the potential contaminants of concern at concentrations greater than the RIDEM Method 1 R-DEC, with the exception of several individual detections of arsenic. However, as presented in *Section 6*, a detailed evaluation of multiple lines of evidence was conducted to evaluate whether the presence of arsenic in site soil was associated with a release of arsenic through an anthropogenic source or mechanism, or if the arsenic was related to naturally occurring background conditions at the site. As detailed in the summary of this evaluation, field conditions and laboratory results suggest that the geology, site history, soil quality, arsenic concentrations, and horizontal and vertical distribution of arsenic at the site strongly suggest that the presence of the arsenic in soil is associated with naturally occurring background conditions, and therefore should be considered non-jurisdictional under the *Remediation Regulations*.

Based on the results of the SI/TBA documented herein, no further action with respect to environmental conditions at the site is recommended and an evaluation of remedial alternatives is not warranted. We recommend that RIDEM concur that the site is considered non-jurisdictional under the *Remediation Regulations*, and that no further action is warranted.

FUSS & O'NEILL

8 Certifications

In accordance with Section 7.05 of the *Remediation Regulations*, the certification expressed below shall apply to the SIR compiled and submitted to RIDEM by Fuss & O'Neill.

I hereby certify the completeness and accuracy of the information contained in the above-referenced documents to the best of my knowledge

	Vice President	June 14, 2013
Signature of Fuss & O'Neill, Inc.	Title	Date

John A. Chambers, PG, LSP

I hereby certify that the above-referenced documents are a complete and accurate representation of the contaminated site and the release, and contain all available facts surrounding the release to the best of my knowledge.

	DIR ECON DEV	June 19, 2013
Signature of ~~Performing~~ Party	Title	Date

MATTHEW J. WOJCIK

Printed Name

9 References

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10 Limitations of Work Product

This document was prepared for the sole use of the Rhode Island Department of Environmental Management, the only intended beneficiaries of our work. Those who may use or rely upon the report and the services (hereafter "work product") performed by Fuss & O'Neill, Inc. and/or its subsidiaries or independent professional associates, subconsultants and subcontractors (collectively the "Consultant") expressly accept the work product upon the following specific conditions.

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3. The observations described and upon which the work product was based were made under the conditions stated therein. Any conclusions presented in the work product were based solely upon the services described therein, and not on scientific or engineering tasks or procedures beyond the scope of described services.

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5. If the purpose of this project was to assess the physical characteristics of the subject site with respect to the presence in the environment of hazardous substances, waste or petroleum and chemical products and wastes as defined in the work product, unless otherwise noted, no specific attempt was made to check the compliance of present or past owners or operators of the subject site with Federal, state, or local laws and regulations, environmental or otherwise.

6. If water level readings have been made, these observations were made at the times and under the conditions stated in the report. However, it must be noted that fluctuations in water levels may occur due to variations in rainfall, passage of time and other factors and such fluctuations may effect the conclusions and recommendations presented herein.

7. Except as noted in the work product, no quantitative laboratory testing was performed as part of the project. Where such analyses have been conducted by an outside laboratory, Consultant has relied upon the data provided and, unless otherwise described in the work product, has not conducted an independent evaluation of the reliability of these tests.

8. If the conclusions and recommendations contained in the work product are based, in part, upon various types of chemical data, then the conclusions and recommendations are contingent upon the validity of such data. These data (if obtained) have been reviewed and interpretations made by Consultant. If indicated in the work product, some of these data may be preliminary or screening-level data and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time and other factors.

9. Chemical analyses may have been performed for specific parameters during the course of this project, as described in the work product. However, it should be noted that additional chemical constituents not included in the analyses conducted for the project may be present in soil, groundwater, surface water, sediments or building materials at the subject site.

10. Ownership and property interests of all documents, including reports, electronic media, drawings and specifications, prepared or furnished by Consultant pursuant to this project are subject to the terms and conditions specified in the contract between the Consultant and Client, whether or not the project is completed.

11. Unless otherwise specifically noted in the work product or a requirement of the contract between the Consultant and Client, any reuse, modification or disbursement of documents to third parties will be at the sole risk of the third party and without liability or legal exposure to Consultant.

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13. Any use of or reliance on the work product shall constitute acceptance of the terms hereof.

Tables

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TABLE 4
Summary of Soil Analytical Data and Objectives
Collected June 28, 2011

Former Woonsocket Middle School
Woonsocket, Rhode Island

Site Investigation Report/Targeted Brownfields Assessment
Prepared for RIDEM

June 2013

	Location	SB-01		SB-02		SB-03		SB-04	SB-05	SB-06			SB-07		SB-08		RIDEM Regulatory Criteria		
	Sample Number	28-07	28-08	28-05	28-06	28-03	28-04	28-02	28-01	28-11	28-12	28-13	28-09	28-10	28-14	28-15			
	Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Duplicate	Primary	Primary	Primary	Primary	Primary	R-DEC	I/C-DEC	GB-LC
	Sample Depth (fbg)	0.2-3	5-9	0.4-5	20-24	1-5	10-13	1-5	0.2-2	0.8-5	0.8-5	7-8	0.2-5	5-5.5	0.2-2	5-7			
Total Metals (USEPA Method 6010/7471)	Units																		
Arsenic	mg/Kg	3.1	5.2	6.8	2.4	5.6	7	9.1	8.2	12	9.1	8.6	8.9	9.2	3.8	5.7	7.0	7.0	NE
Barium	mg/Kg	24	12	21	33	24	38	19	21	22	22	16	29	23	28	24	5,500	10,000	NE
Beryllium	mg/Kg	0.28	0.19	0.24	0.2	0.24	0.21	0.25	0.22	0.23	0.24	0.18	0.28	0.25	0.21	0.25	0.4	1.3	NE
Cadmium	mg/Kg	0.39	0.37	0.41	0.32	0.51	0.52	0.61	0.51	0.68	0.57	0.37	0.64	0.68	0.34	0.45	39	1,000	NE
Chromium	mg/Kg	6.1	6.7	6.5	5.7	9.4	14	13	11	13	11	6.1	12	15	4.1	6.8	390	10,000	NE
Copper	mg/Kg	12	6	7.6	11	8.2	11	9.3	11	11	11	5.5	9.5	11	6.6	24	3,100	10,000	NE
Lead	mg/Kg	47	2.3	4.7	2.3	3.8	3	56	6.9	7.4	6.7	4.1	8.8	6.8	14	2.9	150	500	NE
Manganese	mg/Kg	88	190	120	190	180	280	220	240	270	220	220	200	290	99	160	390	10,000	NE
Mercury	mg/Kg	0.044	ND < 0.021	0.023	ND < 0.021	ND < 0.021	ND < 0.021	ND < 0.021	ND < 0.021	ND < 0.021	ND < 0.021	ND < 0.021	ND < 0.021	ND < 0.022	ND < 0.021	ND < 0.021	23	610	NE
Nickel	mg/Kg	4.3	7.8	6	5.3	9.4	13	13	12	14	12	8	11	15	3	8.5	1,000	10,000	NE
Thallium	mg/Kg	ND < 0.28	ND < 0.26	ND < 0.27	ND < 0.26	ND < 0.26	0.57	ND < 0.27	ND < 0.26	ND < 0.26	ND < 0.26	ND < 0.26	ND < 0.27	ND < 0.27	ND < 0.27	ND < 0.26	5.5	140	NE
Vanadium	mg/Kg	10	6.7	8.7	6.9	10	14	13	11	12	10	6.9	13	14	7.4	11	550	10,000	NE
Zinc	mg/Kg	22	15	54	16	18	22	22	21	28	25	16	20	23	19	20	6,000	10,000	NE
PCB Aroclors (USEPA Method 8082)																			
Total PCB Aroclors	µg/Kg	ND < 15	ND < 15	ND < 15	ND < 15	ND < 15	ND < 15	ND < 15	ND < 15	ND < 15	ND < 15	ND < 15	ND < 15	ND < 15	ND < 15	ND < 15	10,000	10,000	10,000
TPH (USEPA Method 8100)																			
C16-C36 Heavy Petroleum Distillate	mg/Kg	56	ND < 20	ND < 21	ND < 20	29	ND < 21	ND < 21	ND < 21	30	ND < 21	ND < 21	ND < 21	260	23	ND < 21	NE	NE	NE
Total Petroleum Hydrocarbons	mg/Kg	56	ND < 20	ND < 21	ND < 20	29	ND < 21	ND < 21	ND < 21	30	ND < 21	ND < 21	ND < 21	260	23	ND < 21	500	2,500	2,500
VOC (USEPA Method 8260)																			
VOC	µg/Kg	ND < varies	ND < varies	ND < varies	ND < varies	ND < varies	ND < varies	ND < varies	ND < varies	ND < varies	ND < varies	ND < varies	ND < varies	ND < varies	ND < varies	ND < varies	varies	varies	varies
SVOC (USEPA Method 8270)																			
Benzo(a)anthracene	µg/Kg	ND < 370	ND < 170	ND < 180	ND < 170	320	ND < 170	ND < 180	ND < 170	ND < 350	ND < 350	ND < 170	ND < 180	ND < 360	ND < 350	ND < 180	900	7,800	NE
Benzo(a)pyrene	µg/Kg	ND < 370	ND < 170	ND < 180	ND < 170	280	ND < 170	ND < 180	ND < 170	ND < 350	ND < 350	ND < 170	ND < 180	ND < 360	ND < 350	ND < 180	400	800	NE
Benzo(b)fluoranthene	µg/Kg	430	ND < 170	ND < 180	ND < 170	330	ND < 170	ND < 180	ND < 170	ND < 350	ND < 350	ND < 170	ND < 180	ND < 360	ND < 350	ND < 180	900	7,800	NE
Chrysene	µg/Kg	ND < 370	ND < 170	ND < 180	ND < 170	340	ND < 170	ND < 180	ND < 170	ND < 350	ND < 350	ND < 170	ND < 180	ND < 360	ND < 350	ND < 180	400	780,000	NE
Fluoranthene	µg/Kg	670	ND < 170	ND < 180	ND < 170	720	ND < 170	ND < 180	ND < 170	ND < 350	ND < 350	ND < 170	ND < 180	360	400	ND < 180	20,000	10,000,000	NE
Indeno (1,2,3-cd)pyrene	µg/Kg	ND < 370	ND < 170	ND < 180	ND < 170	180	ND < 170	ND < 180	ND < 170	ND < 350	ND < 350	ND < 170	ND < 180	ND < 360	ND < 350	ND < 180	900	7,800	NE
Phenanthrene	µg/Kg	510	ND < 170	ND < 180	ND < 170	860	ND < 170	ND < 180	ND < 170	ND < 350	ND < 350	ND < 170	ND < 180	440	ND < 350	ND < 180	40,000	10,000,000	NE
Pyrene	µg/Kg	730	ND < 170	ND < 180	ND < 170	780	ND < 170	ND < 180	ND < 170	ND < 350	ND < 350	ND < 170	ND < 180	480	ND < 350	ND < 180	13,000	10,000,000	NE

NOTES:
RIDEM: Rhode Island Department of Environmental Management
USEPA: United States Environmental Protection Agency
PCBs: polychlorinated biphenyls
VOC: volatile organic compounds
TPH: total petroleum hydrocarbons
SVOC: semi-volatile organic compounds
Bold, shaded values exceed one or more regulatory criteria.

Total Petrolum Hydrocarbons is the sum of quantified hydrocarbon fractions
ND < X: compound not detected above laboratory reporting limit
NE: criterion is not established
SB: soil boring
mg/Kg: milligrams per kilogram
µg/Kg: micrograms per kilogram

fbg: feet below grade
R-DEC: Residential Direct Exposure Criteria
I/C-DEC: Industrial/Commercial Direct Exposure Criteria
GB-LC: GB groundwater leachability criteria
Only the last 4 digits of the sample number are listed.

Created by: SAH
Checked by: AMB

FUSS & O'NEILL

TABLE 5
Summary of Soil Gas Analytical Data and Objectives
Collected September 19, 2011

Former Woonsocket Middle School
Woonsocket Rhode Island

Site Investigation Report/Targeted Brownfields Assessment
Prepared for RIDEM

June 2013

	Location	SG-1	SG-2	SG-3	SG-4		SG-5	SG-6	SG-7	CTDEEP Soil Vapor Volatilization Criteria	
	Approx. Sample Depth (fbg)	3	3	2.5	3		3	2.5	3		
	Sample Number	19-03	19-02	19-01	19-07	19-08	19-06	19-04	19-05	Residential	Industrial / Commercial
	Sample Type	Primary	Primary	Primary	Primary	Duplicate	Primary	Primary	Primary		
VOCs (USEPA Method TO-15)	Units										
1,1,1-Trichloroethane	ppbv	ND < 0.20	ND < 0.20	ND < 0.20	0.2	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	70,000	130,000
1,2,4-Trimethylbenzene	ppbv	ND < 0.50	1.5	ND < 0.50	ND < 0.50	ND < 0.50	0.84	0.66	ND < 0.50	1,400	15,000
1,3-Butadiene	ppbv	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	1.7	NE	NE
2,2,4-Trimethylpentane	ppbv	ND < 0.50	6.2	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	NE	NE
Acetone	ppbv	12	39.8	14.1	16.8	19.5	46	18.7	27.5	57,000	290,000
Benzene	ppbv	ND < 0.50	0.71	0.62	0.79	0.89	1.6	1.5	1.6	780	1,400
Carbon Disulfide	ppbv	0.9	0.57	ND < 0.50	1.0	1.1	1.9	1.2	1.0	NE	NE
Chloroform	ppbv	ND < 0.50	ND < 0.50	0.59	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	78	140
Dichlorodifluoromethane	ppbv	ND < 0.50	ND < 0.50	ND < 0.50	0.52	ND < 0.50	ND < 0.50	0.55	0.84	14,000	140,000
Ethanol	ppbv	ND < 0.50	ND < 0.50	22.6	24.7	26.1	34.9	ND < 0.50	ND < 0.50	NE	NE
Ethylbenzene	ppbv	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	0.91	0.8	0.52	9,300	93,000
Heptane	ppbv	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	0.63	0.58	0.8	NE	NE
n-Hexane	ppbv	ND < 0.50	ND < 0.50	0.55	ND < 0.50	ND < 0.50	0.68	ND < 0.50	ND < 0.50	NE	NE
Isopropanol	ppbv	ND < 0.50	ND < 0.50	3.2	2.2	2.8	ND < 0.50	ND < 0.50	ND < 0.50	NE	NE
Methyl ethyl Ketone (MEK)	ppbv	ND < 0.50	7.3	1.5	1.7	1.6	7.0	5.5	ND < 0.50	130,000	230,000
Methylene chloride	ppbv	1.3	ND < 0.50	0.86	1.1	ND < 0.50	ND < 0.50	8.3	1.2	650	6,800
Propylene	ppbv	0.75	8.4	2.5	1.8	1.8	23.1	18.9	20.1	NE	NE
Tetrachloroethene	ppbv	ND < 0.20	1.8	ND < 0.20	0.31	ND < 0.20	0.36	0.88	ND < 0.20	560	1,000
Tetrahydrofuran	ppbv	ND < 0.50	ND < 0.50	0.56	ND < 0.50	0.51	0.64	0.66	ND < 0.50	NE	NE
Toluene	ppbv	1.7	1.2	2.7	2.5	2.5	4.6	4.3	6.2	42,000	180,000
Trichlorofluoromethane	ppbv	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	0.71	50,000	120,000
Vinyl Acetate	ppbv	ND < 0.50	2.2	ND < 0.50	1.0	0.99	2.0	1.3	0.67	NE	NE
m,p-xylenes	ppbv	0.9	1.2	1.1	1.3	1.3	3.0	2.6	1.8	38,000	160,000
o-Xylene	ppbv	ND < 0.50	0.5	ND < 0.50	ND < 0.50	ND < 0.50	1.0	0.79	0.52	38,000	160,000
Total Xylene	ppbv	1.2	1.7	1.4	1.7	1.7	4.0	3.4	2.3	38,000	160,000

NOTES:
USEPA: United States Environmental Protection Agency
CTDEEP: Connecticut Department of Energy and Environmental Protection
fbg: feet below grade
ND < X: compound not detected above the reporting limit
Only the last 4 digits of the sample number are listed.

VOC: volatile organic compounds
ppbv: parts per billion by volume
NE: not established

Created by: SAH
Checked by: TJC

FUSS & O'NEILL

TABLE 6
Evaluation of Arsenic in Soil

Former Woonsocket Middle School
Woonsocket, Rhode Island

Site Investigation Report/Targeted Brownfields Assessment
Prepared for RIDEM

June 2013

Sample Location	Sample Identification	Sample Depth (fbg)	Arsenic Result (mg/kg)	Threshholds	
				>7.0 mg/kg	>15.0 mg/kg
SB-01	28-07	0.2-3	3.1	0	0
	28-08	5-9	5.2	0	0
SB-02	28-05	0.4-5	6.8	0	0
	28-06	20-24	2.4	0	0
SB-03	28-03	1-5	5.6	0	0
	28-04	10-13	7.0	0	0
SB-04	28-02	1-5	9.1	1	0
SB-05	28-01	0.2-2	8.2	1	0
SB-06	28-11*	0.8-5	12	1	0
	28-13	7-8	8.6	1	0
SB-07	28-09	0.2-5	8.9	1	0
	28-10	5-5.5	9.2	1	0
SB-08	28-14	0.2-2	3.8	0	0
	28-15	5-7	5.7	0	0
			Total	6	0

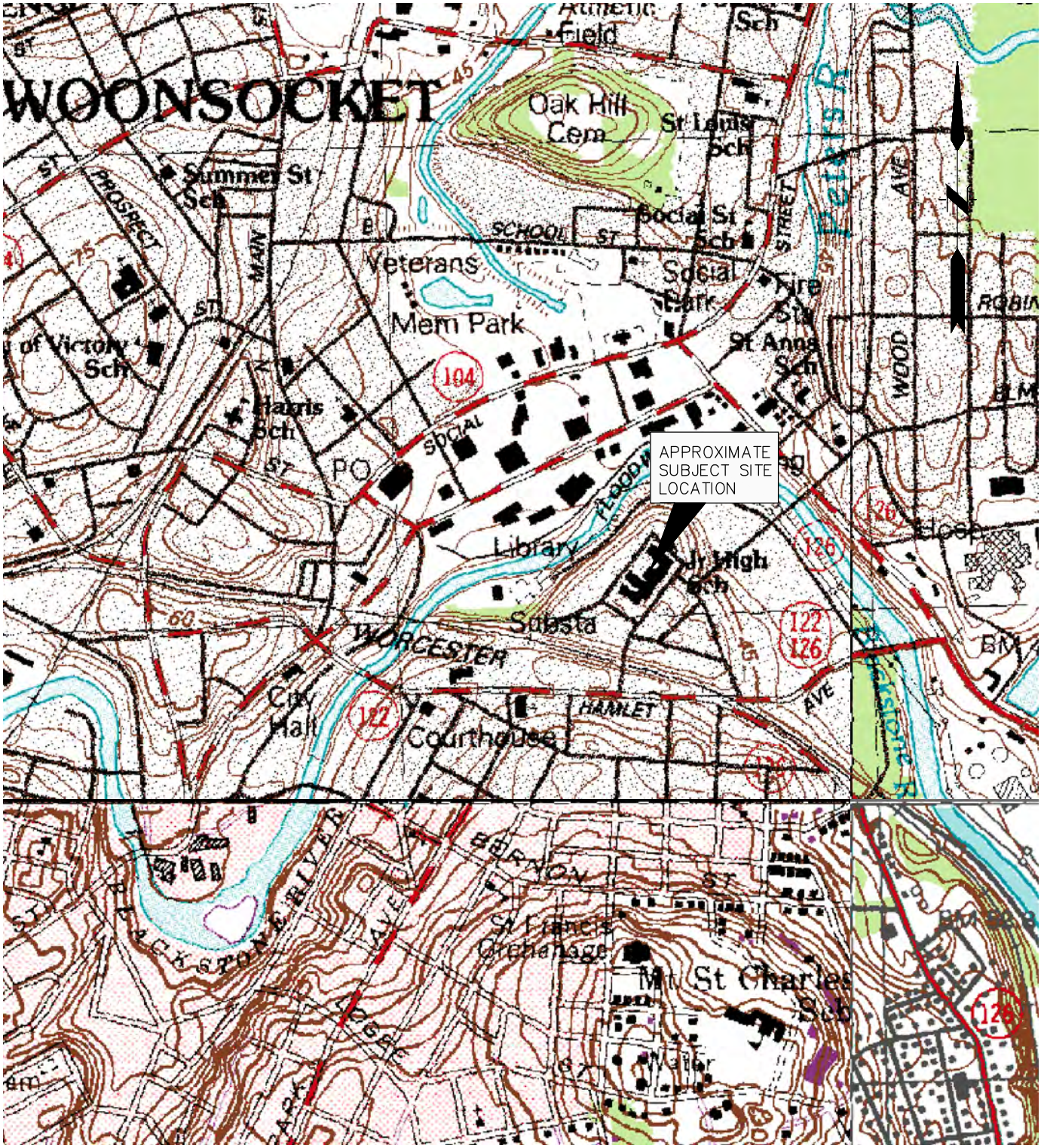
Compliance Determination Evaluation

		Limit	Compliance Determination
Site acreage:	2.98	N/A	N/A
Minimum # of samples required:	12	N/A	N/A
Actual # of samples:	14	N/A	Yes
Average arsenic concentration (mg/kg):	6.8	7.0	Yes
Results > 15.0 mg/kg:	0	0	Yes
Results > 7.0 mg/kg:	6	N/A	N/A
% of results > 7.0 mg/kg:	43%	25%	No

NOTES:
N/A = Not applicable
mg/kg = milligrams per kilogram
fbg: feet below grade
Only the last 4 digits of the sample numbers are listed.
* Duplicate sample #28-12, which had a reported arsenic concentration of 9.1, was excluded from this evaluation.

Created by: SAH
Reviewed by: PJD

Figures



MAP REFERENCE

THIS MAP WAS PREPARED FROM THE FOLLOWING 7.□MINUTE USGS TOPOGRAPHIC □UADRANGLES:
PAWTUC□ET, RI, 1□87
GEORGIAVILLE, RI, 1□□□ REVISED 1□7□
BLAC□STONE, RI AND MA, 1□82
FRAN□LIN, RI AND MA, 1□87

SOURCE: RHODE ISLAND GEOGRAPHIC INFORMATION SYSTEM (RIGIS)

SCALE:	
HORZ.:	1" = 1000'
VERT.:	
DATUM:	
HORZ.:	
VERT.:	

0 500 1000
GRAPHIC SCALE

FUSS & O'NEILL
317 IRON HORSE WAY, SUITE 204
PROVIDENCE, RI 02908
401.861.3070
www.fando.com

RIDEM

SITE LOCATION

FORMER WOONSOCKET MIDDLE SCHOOL

WOONSOCKET RHODE ISLAND

PROJ. No.: 20100607.A20
DATE: DECEMBER 2012

FIGURE 1

File Path: C:\Temp\AcPublish_7360\20100607A20-LOC01.dwg, Layout: 08□11-P_RI71-SM-COLOR, Plotted: Wed, Dec 12, 2012 - 2:□7 PM User: shubbs
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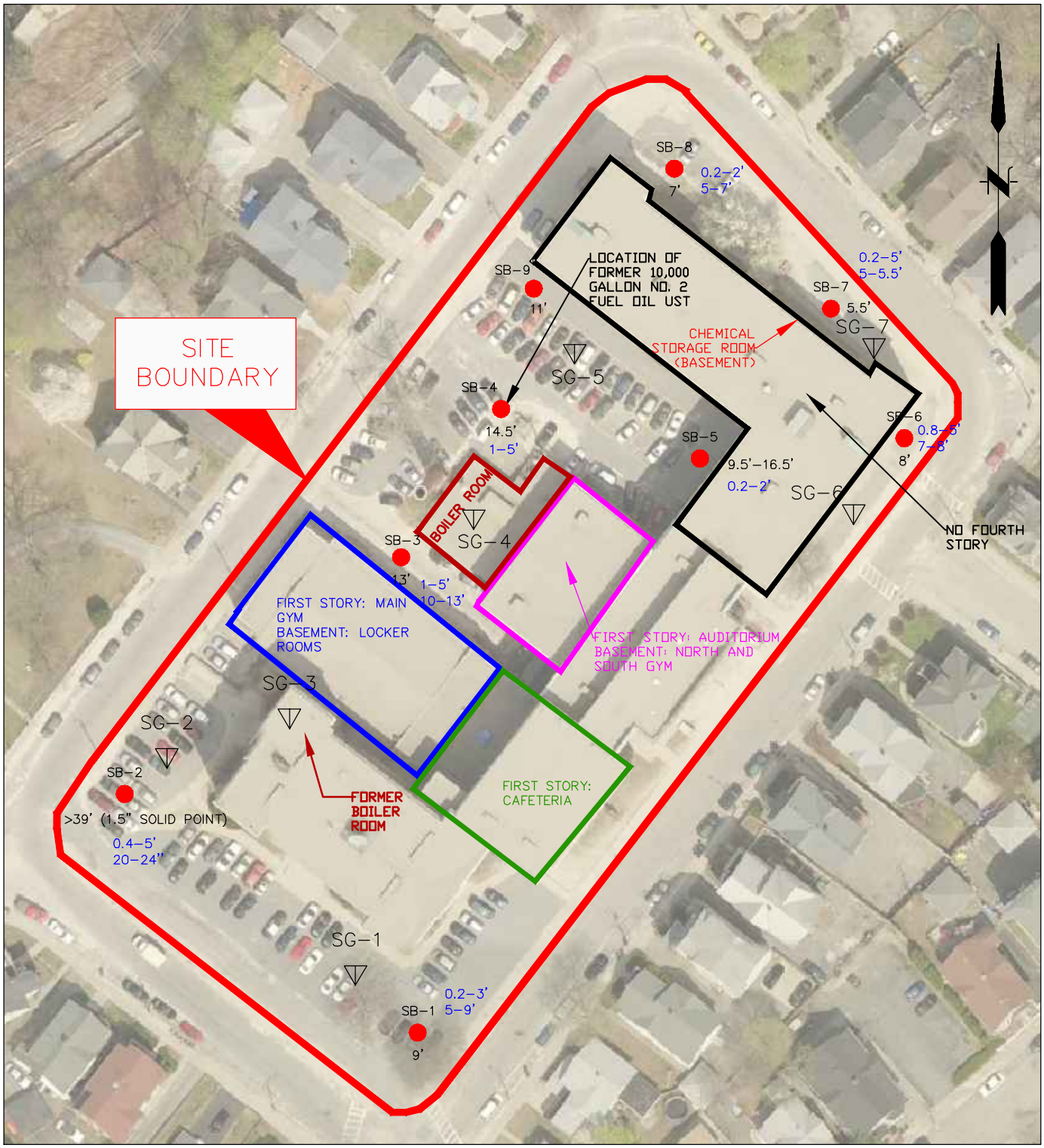

MAP REFERENCES AND NOTES

2008 AERIAL PHOTOGRAPHY. SOURCE: THE RHODE ISLAND GEOGRAPHIC INFORMATION SYSTEM (RIGIS).

SITE FEATURES ARE APPROXIMATE.

LEGEND

SOIL BORING INSTALLED 6/11 — SB-1
REFUSAL DEPTH IN FEET — 9'
SAMPLE DEPTHS IN FEET — 0.2-3' 5-9'

SOIL-GAS SAMPLE LOCATION — SG-1

SCALE:
HORZ.: 1" = 80'
VERT.:
DATUM:
HORZ.:
VERT.:
0 40 80
GRAPHIC SCALE

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RIDEM

SITE PLAN

FORMER WOONSOCKET MIDDLE SCHOOL

WOONSOCKET RHODE ISLAND

PROJ. No.: 20100607.A20
DATE: DECEMBER 2012

FIGURE 2

FUSS & O'NEILL

Appendix A

Public Notice Letter

FUSS & O'NEILL

PUBLIC NOTICE

Notice of Commencement of Environmental Investigation Activities
Former Woonsocket Middle School
357 Park Place
Assessor's Plat 27, Lot 113
Woonsocket, Rhode Island

Dear Sir or Madam:

The purpose of this letter is to inform you that Fuss & O'Neill, Inc. (an environmental engineering firm), on behalf of the Rhode Island Department of Environmental Management (RIDEM) and the City of Woonsocket (the City), is conducting environmental site assessment activities at the Former Woonsocket Middle School located at 357 Park Place, and identified as City Assessor's Plat 27, Lot 113.

The site is considered to be a potential brownfield site, as the potential for hazardous building materials and environmental contamination in soil or groundwater may be affecting the beneficial redevelopment and reuse of the property. As a result, RIDEM is working with the United States Environmental Protection Agency, at the request of the City to investigate environmental concerns that may be associated with the site. This letter was prepared in accordance with Section 7.07(A) of the RIDEM Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations). This regulation requires that prior to commencement of an environmental site investigation, the owners and tenants of abutting properties must be notified.

Environmental investigation field activities will begin in June 2011 and are expected to last several months. On-site field activities will include sampling of building materials, surveys, drilling, installation of monitoring wells, and soil and groundwater sampling. Upon completion of the assessment, you will receive another letter notifying you that the investigation is complete. If you require more information or have specific comments or questions regarding this project, please contact any of the following project personnel.

Mr. Patrick Dowling Project Manager Fuss & O'Neill, Inc. (401) 861-3070 ext. 4568 pdowling@fando.com	Ms. Jane Talbot Deputy Director of Community Planning City of Woonsocket (401) 767-1418 jtalbot@woonsocketri.org	Ms. Cynthia Gianfrancesco Principal Environmental Scientist RIDEM (401) 222-2797 ext. 7126 cynthia.gianfrancesco@dem.ri.gov

If applicable, please provide to your tenants notice of this letter.

Sincerely,

Patrick J. Dowling, CPG
Project Manager

FUSS & O'NEILL

Appendix B

GPR Memorandum

M E M O R A N D U M

TO: Patrick Dowling and Steven Hubbs, Fuss & O'Neill

FROM: Don Wilson, Fuss & O'Neill

DATE: June 24, 2011

RE: Former Woonsocket Middle School
Woonsocket, Rhode Island

Fuss & O'Neill completed a Ground-Penetrating Radar (GPR) survey at the above-referenced site on June 23, 2011. These services were completed to determine if underground storage tanks (USTs) were still present on select portions of the property. Based on the results of a Phase I Environmental Site Assessment (ESA) conducted by our office on the property, one 10,000 gallon fuel oil tank was removed from the site in 1998. According to RIDEM files, soil containing petroleum was observed in the UST grave during removal. In addition, two vent pipes were observed near the boiler room in the western portion of the parking area near the former location of this UST. According to Mr. Steve Preston, the hazardous materials specialist for the Fire Department, Fire Department records indicated that two USTs were formerly present on site and that both tanks were closed. Based on conclusions from the Phase I ESA, concerns have been raised over the presence, location, removal, or contents of the second potential UST and whether this second UST may still be present on the property.

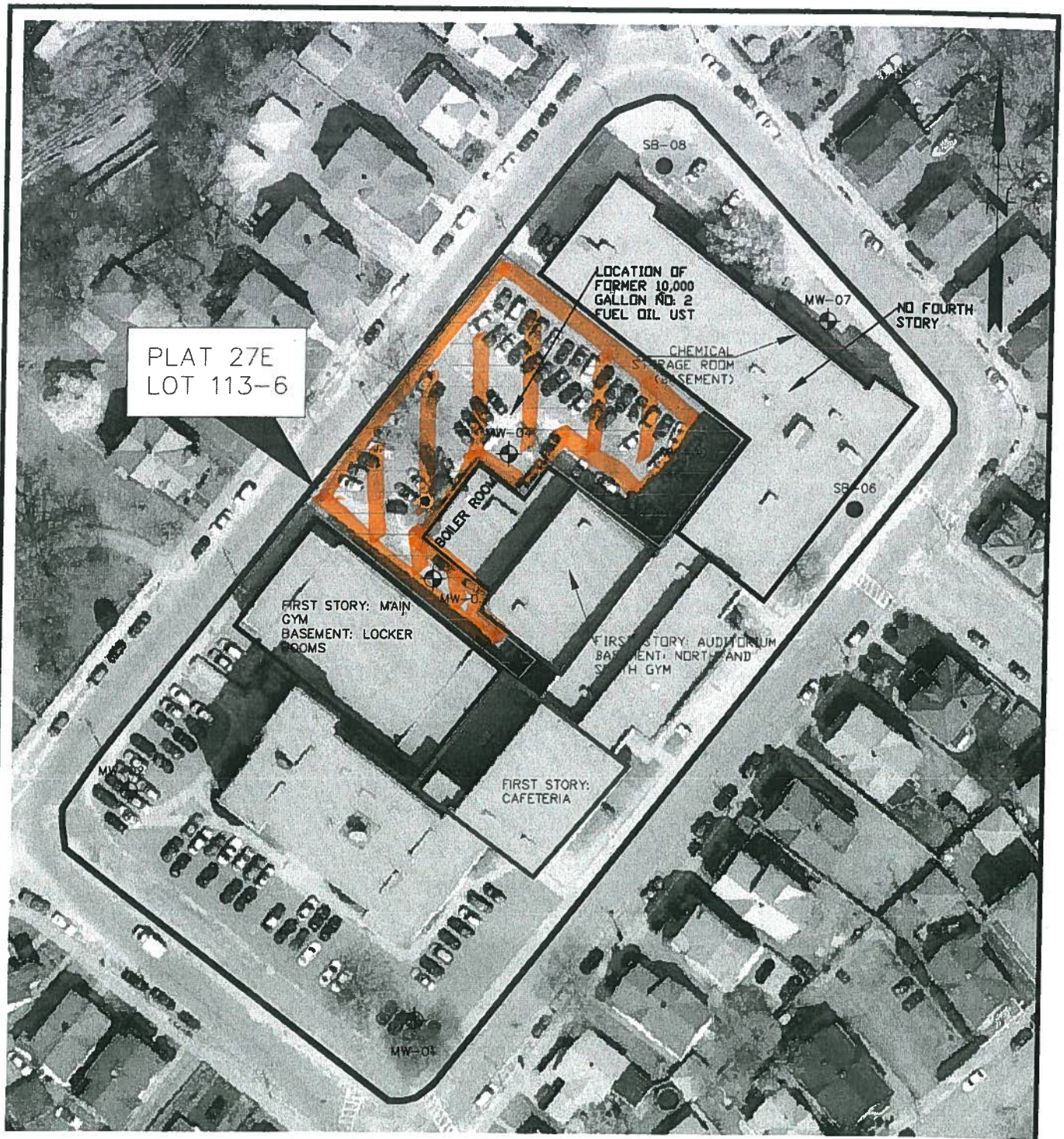
DISCUSSION

To determine if USTs are still present on the site, a GPR survey was conducted over the site on June 23, 2011. Fuss & O'Neill used a calibrated Geophysical Survey System, Inc. SIR-2000™ with a 400 Megahertz (MHZ) antenna to conduct the GPR survey. The survey area included all accessible areas in the open areas along the western side of the Former Middle School building adjacent the boiler house. The approximate survey area is shown on the attached field sketch in orange highlight.

Based on the GPR records, no anomalies indicative of USTs were identified.

Additional anomalies were identified during the GPR survey and were marked on the attached field sketch. These anomalies did not display the typical GPR characteristics for a UST and are likely buried utilities or other non-metal buried subsurface features (boulders, tree stumps, concrete, i.e.).

- END OF MEMORANDUM -



MAP REFERENCES AND NOTES

2008 AERIAL PHOTOGRAPHY. SOURCE: THE RHODE ISLAND GEOGRAPHIC INFORMATION SYSTEM (RIGIS).

SITE FEATURES ARE APPROXIMATE.

LEGEND

PROPOSED MONITORING WELL — MW-01

PROPOSED SOIL BORING — SB-02

PROPOSED GROUND PENETRATING RADAR (GPR) SURVEY AREA

SCALE:
HORZ.: 1" = 80'
VERT:
DATUM:
HORZ.:
VERT:
0 40 80
GRAPHIC SCALE

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Disciplines to Deliver
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PROVIDENCE, RI 02908
401.861.3070
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RIDEM

SITE PLAN AND SAMPLING LOCATONS

FORMER WOONSOCKET MIDDLE SCHOOL

WOONSOCKET RHODE ISLAND

PROJ. No.: 20100607.A10
DATE: APRIL 2011

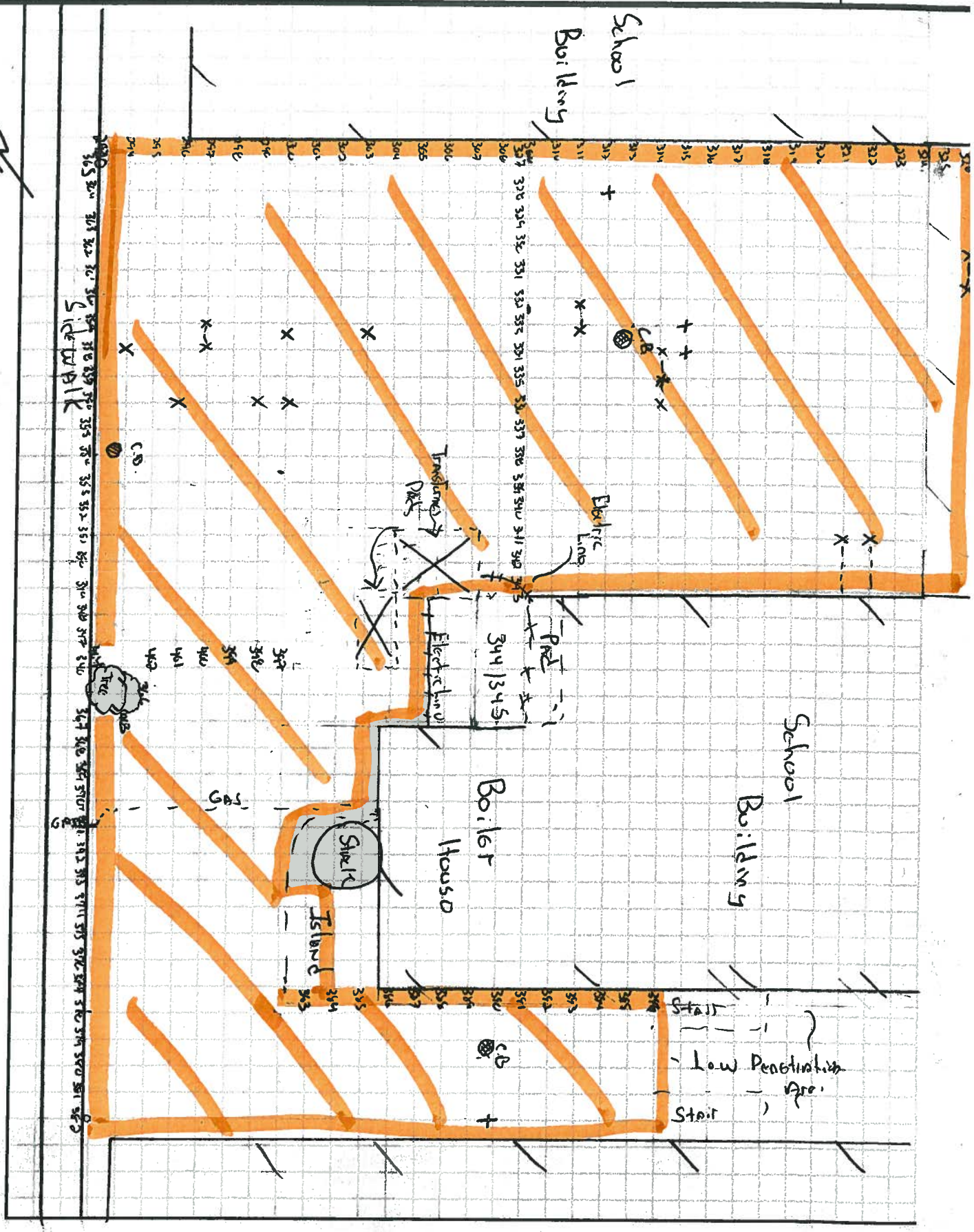
FIGURE 2

FUSS & O'NEILL
Disciplines to Deliver

PREPARED BY	DATE	CHECKED BY	DATE	PROJECT NO
DEW	06/23/11			20100607A

GPR Survey - Former Woonsocket Middle School

SHEET NO. 1 of 1



FUSS & O'NEILL

Appendix C

Hazardous Building Materials Inspection Report

Limited Hazardous Building Materials Assessment Report
Former Woonsocket Middle School

357 Park Place
Woonsocket, RI

Rhode Island Department of Environmental Management

June 2013

FUSS & O'NEILL

317 Iron Horse Way, Suite 204
Providence, RI 02908

20100607.A20

FUSS & O'NEILL

June 4, 2013

Ms. Cynthia Gianfrancesco
Principal Environmental Scientist
Rhode Island Department of Environmental Management
235 Promenade Street
Providence, RI 02908

Re: Limited Hazardous Building Materials Assessment Report
Former Woonsocket Middle School, Woonsocket, Rhode Island
Fuss & O'Neill Project No. 20100607.A20

Dear Ms. Gianfrancesco:

The purpose of this letter is to present the enclosed *Hazardous Building Materials Assessment Report* for the former Woonsocket Middle School located at 357 Park Place in Woonsocket, Rhode Island. This hazardous building materials assessment was conducted on behalf of the Rhode Island Department of Environmental Management (RIDEM) at the request of the City of Woonsocket (the City), under the Targeted Brownfield Assessment program. The objective of this assessment was to assist the City in developing abatement strategy and cost estimate for hazardous building materials abatement activities warranted as part of future renovation of the 484,546-square foot, former school building.

The field and laboratory assessment activities detailed in the attached report were implemented in accordance with a USEPA-approved site-specific *Quality Assurance Project Plan* (*QAPP*) *Addendum* prepared in accordance with the USEPA Brownfields Quality Assurance Project Plan Guidance Document.

Please contact the undersigned if you have any questions or require additional information regarding this assessment.

Sincerely,

Patrick J. Dowling, CPG
Senior Project Manager

John A. Chambers, PG, LSP
Vice President

Attachments: *Limited Hazardous Building Materials Assessment Report*

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02908
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800.286.2469
f 401.861.3076

www.fando.com

Connecticut
Massachusetts
Rhode Island
South Carolina

FUSS & O'NEILL

Table of Contents

Hazardous Building Materials Assessment Report
Former Woonsocket Middle School
RIDEM

Table of Contents

Hazardous Building Materials Assessment Report
Former Woonsocket Middle School
RIDEM

1 Introduction

From July 6, 2011 to August 18, 2011, Fuss & O'Neill EnviroScience, LLC (Fuss & O'Neill) representatives Mr. Dustin Diedricksen, Mr. Jonathan Hand, Mr. Stephen Moulton, and Mr. John Coletti performed hazardous building material assessment activities at the former Woonsocket Middle School located at 357 Park Place in Woonsocket, Rhode Island (the site). Additional follow-up sampling was conducted by Mr. Diedricksen and Mr. Steven Hubbs of Fuss & O'Neill on June 11, 2012. The assessment included a limited asbestos assessment, lead-based paint determination, lead paint chip sample analysis, toxic characteristic leaching procedure (TCLP) waste characterization, and polychlorinated biphenyl (PCB) building material assessment. Copies of asbestos inspector licenses for personnel involved in this assessment are included in *Appendix A*. Facility plans, depicting the rooms and areas on each of the four floors of the school building which correspond to the sampling locations discussed in this report is included as *Appendix I*.

This hazardous building materials assessment was performed to identify and quantify possible hazardous building materials that may affect proposed future renovation of the school building. A definitive renovation or demolition plan was not available to Fuss & O'Neill at the time of this assessment. The work documented herein was performed on behalf of the Rhode Island Department of Environmental Management (RIDEM) for the City of Woonsocket, (the City) in accordance with written scopes of work detailed in a site-specific *Quality Assurance Project Plan Addendum* (*QAPP Addendum-Revision 1.0*) and site-specific *QAPP Modification* prepared by Fuss & O'Neill and approved by the United States Environmental Protection Agency (USEPA) on May 18, 2011 and May 11, 2012, respectively.

2 Asbestos Assessment

A property owner must ensure that performance of a thorough inspection for asbestos-containing materials (ACM) is conducted prior to disturbance of materials potentially containing asbestos during renovation or demolition. This responsibility is a requirement of the USEPA National Emission Standards for Hazardous Air Pollutants (NESHAP) Regulation 40 CFR Part 61, Sub-part M, and the Rhode Island Department of Health (RIDOH) regulation R23-24.5-A5b.

This requirement includes friable, non-friable Category I, and non-friable Category II ACM. These terms are defined below:

- Friable ACM is defined as material that contains greater than 1 % asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

- A Category I Non-friable ACM refers to specific materials, including packings, gaskets, resilient floor coverings, and asphalt roofing products, which contain greater than 1% asbestos that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

- A Category II non-friable ACM refers to any non-friable materials, excluding Category I materials, which contain greater than 1%asbestos that, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure.

During the assessment documented herein, suspect ACM were separated into three USEPA-defined categories. These categories are:

- Thermal System Insulation (TSI) - Includes all materials used to prevent heat loss or gain, or water condensation on mechanical systems. Examples of TSI are pipe insulation, boiler insulation, duct insulation, and mudded insulation on pipe fittings.

- Surfacing (SURF) ACM - Includes all ACM that is sprayed, troweled, or otherwise applied to an existing surface. Surfacing ACM is commonly used for fireproofing, decorative, and acoustical applications.

- Miscellaneous (MISC) ACM - Includes all ACM not categorized as thermal or surfacing ACM, such as linoleum, vinyl asbestos flooring, and ceiling tiles.

The USEPA recommends that representative samples of homogenous building materials be collected in a manner sufficient to determine asbestos content. The USEPA NESHAP regulation does not specifically identify a minimum number of samples to be collected, but, recommends the use of sampling protocols included in 40 CFR Part 763, Sub-Part E - Asbestos Containing Materials in Schools. RIDOH does specify a minimum number of samples in regulation 23-24.5-A5b which is consistent with the below-summarized protocol.

During the assessment documented herein, samples of suspect ACM were collected in accordance with USEPA recommendations and Asbestos Hazard Emergency Response Act (AHERA) and RIDOH protocols. These protocols include the following:

1. SURF materials, such as plaster and spray-on fireproofing, were collected in a randomly distributed manner representing each homogenous area based on the overall quantity, using the following sampling method:

    a. Three samples collected from each homogenous area that is less than or equal to 1,000 square feet.

    b. Five samples were collected from each homogenous area that is greater than 1,000 square feet but less than or equal to 5,000 square feet.

    c. Seven samples collected from each homogenous area that is greater than 5,000 square feet.

2. TSI materials, such as pipe insulation and tank insulation, were collected in a randomly distributed manner representing each homogenous area. Three samples collected from each material. Also, a minimum of one sample of any patching materials applied to TSI was collected, as long as the patched area was less than six linear or square feet.

3. MISC materials, such as floor tile, gaskets, and construction mastics, were typically characterized by a minimum of two samples collected of each homogenous material type. Sampling was conducted

in a manner sufficient to determine asbestos content of the homogenous material as determined by the inspector. If materials identified were of minimal quantity, only a single sample was collected.

The inspectors collected samples, documented sampling activities, and prepared proper chains of custody for transfer of the samples to an accredited laboratory for analysis by Polarized Light Microscopy (PLM). Asbestos samples were submitted to ESS Laboratory (ESS) of Cranston, Rhode Island who, in turn, subcontracted the analysis to EMSL Laboratory (EMSL) of Westmont, New Jersey.

A total of 403 samples, representing 202 different homogeneous, suspect ACM were collected and submitted for laboratory analysis. These samples were initially analyzed by EMSL Laboratory for asbestos content by PLM, and the laboratory was directed to implement a "stop-positive" approach, during which they would suspend analysis of homogeneous sample materials upon confirmation that one sample of that homogeneous material was confirmed to contain asbestos at a concentration greater than 1%. This approach resulted in the analysis of 354 of the 403 samples originally requested for PLM analysis. Additionally, based on the PLM results, supplemental analyses were requested for verification purposes, as discussed further below.

The Fuss & O'Neill sampling locations, identification, and material type of each sample collected and analyzed by the laboratory are summarized in the ACM results *Tables 1* and *2* in *Section 2.1* below. It should be noted that roofing materials were excluded from the assessment documented herein, and to our knowledge have not been evaluated for the presence of ACM.

2.1 Results of Asbestos Analysis by PLM

The USEPA, Occupational Safety and Health Administration (OSHA), and RIDOH define any material that contains greater than one percent (>1%) asbestos, determined utilizing PLM, as being an ACM. Materials that are identified as "none detected" are specified as not containing asbestos.

Any building materials at the site not listed in the following tables, including roofing materials, should be considered suspect ACM until sample results prove otherwise. Refer to *Appendix B* for Asbestos PLM sample results and applicable data validation materials.

Utilizing the USEPA protocol and criteria, the materials included in *Table 1* were determined to be ACM:

Table 1
Asbestos Containing Materials and PLM Results

Sample Location	Material Type	Sample No.	Asbestos Content
Room 101	White Mottled with Brown 12x12 Floor Tile	818DD-05A	3% Chrysotile
Room 105	White with Brown Streaks 9x9 Floor Tile	818DD-08A	3% Chrysotile
Exterior Typical Window	Tan Caulking at Brick Molding (Wood) Concealed Beneath Aluminum Window Frames	818DD-14A	10% Chrysotile
Room 105	Black Sink Undercoat	818DD-16A	15% Chrysotile
Room 203	Mastic Associated with 2" Brown Vinyl Baseboard	818DD-18A	4.6% Chrysotile*

Sample Location	Material Type	Sample No.	Asbestos Content
Room 211	Mint Green with Cream and Green Splotches 9x9 Floor Tile	818DD-19A	3% Chrysotile
Room 203	Grey with White Washout 9x9 Floor Tile	818DD-20A	2% Chrysotile
Room 204	Greyish Green with White and Grey Streaks 9x9 Floor Tile	818DD-21A	2% Chrysotile
Room 202A	White with Tan and Grey Specks 9x9 Floor Tile	818DD-25A	5% Chrysotile
Room 207A/B	Blue 9x9 Floor Tile underneath Plywood Underlayment	818DD-28A	2% Chrysotile
Room 211	Beige with White and Brown Splotches 9x9 Floor Tile	818DD-29A	3% Chrysotile
Room 213	Light Brown with Cream and Brown Splotches 9x9 Floor Tile (Checkered)	818DD-30A	2% Chrysotile
Room 213	Dark Brown with Cream and Light Brown Splotches 9x9 Floor Tile (Checkered)	818DD-31A	2% Chrysotile
Room 220 (Office)	Green Mottled 12x12 Floor Tile	818DD-32A	5% Chrysotile
Room 216	Light Blue with White Streaks 9x9 Floor Tile	818DD-33A	2% Chrysotile
Room 218	Brown and Tan Washout 9x9 Floor Tile	818DD-36A	5% Chrysotile
Room 550	Tan/Brown Vinyl Floor Tile Beneath Plywood Underlayment	818DD-38A	2% Chrysotile
Room 553	Brown, Tan, and White Mottled 12x12 Floor Tile	818DD-39A	2% Chrysotile
Hallway Outside Room 554 - 550	Black with White and Green Streaks 9x9 Floor Tile	818DD-42A	4% Chrysotile
Room 502A	Pea Green with Dark Green and White Splotches 12x12 Floor Tile	818DD-46A	6% Chrysotile
Hall Outside Former HS Office	Grey Vinyl Floor Tile underneath Plywood Underlayment	76DD-50A	3.2% Anthophyllite*
Hall Outside Former HS Office	Blue Vinyl Floor Tile underneath Plywood Underlayment	76DD-51A	28.2% Chrysotile*
Former HS Main Office	Brownish Grey with White and Brown Specks 9x9 Floor Tile	76DD-57A	1.9% Chrysotile*
Library Annex	Grey Vinyl Floor Tile Beneath Plywood Underlayment	76DD-66A	8% Chrysotile
Corner Bathroom HS Office Hall	Grey with Pink and Green Splotches 9x9 Floor Tile	76DD-72A	5% Chrysotile
Rooms 350/353	Tan with White and Brown Splotches 12x12 Floor Tile (Checkered)	76DD-73A	5% Chrysotile
Rooms 350/353	Brown with Dark Brown and White Splotches 12x12 Floor Tile (Checkered)	76DD-74A	4% Chrysotile
Room 354	Green with White Splotches 12x12 Floor Tile (Checkered)	76DD-75A	5% Chrysotile
Room 354	Tan with White and Brown Splotches 12x12 Floor Tile (Checkered)	76DD-76A	8% Chrysotile
Room 356	Light Brown with White and Brown Splotches 12x12 Floor Tile (Checkered)	76DD-77A	8% Chrysotile
Room 356	Brown with White and Dark Brown Splotches 12x12 Floor Tile (Checkered)	76DD-78A	5% Chrysotile
Room 351 and 352	Grey with White Splotches 12x12 Floor Tile (Checkered)	76DD-79A	5% Chrysotile
Room 351 and 352	Dark Grey with White Streaks 12x12 Floor Tile (Checkered)	76DD-80A	5% Chrysotile
Room 317 – Partitioned Offices	Orange, Brown, and Tan Mottled 12x12 Floor Tile	77DD-87A	5% Chrysotile

Sample Location	Material Type	Sample No.	Asbestos Content
Projector Booth	Transite Panels	77DD-92A	30% Chrysotile
Room 405	Orange and Tan Mottled 12x12 Floor Tile (Bottom Layer)	711DD-107A	2% Chrysotile
Custodian Room Next to Room 461	Brown with White and Brown Specks 9x9 Floor Tile	711DD-112A	4% Chrysotile
Room 458	Green with White 9x9 Floor Tile	711DD113A	6% Chrysotile
Corridors at Classroom Wing	Tan Window Glazing Compound Associated with Doors	711DD-115A	3% Chrysotile
Room 461	Orange, Brown, and Tan Speckled 9x9 Floor Tile	711DD-116A	5% Chrysotile
Hallway Outside Room 464	Concealed Grey Vinyl Floor Tile underneath Plywood	711DD-117A	4.3% Anthophyllite*
Room 455	Light Brown with White Streaks 9x9 Floor Tile (Checkered)	711DD-118A	8% Chrysotile
Room 455	Brown with White Streaks 9x9 Floor Tile (Checkered)	711DD-119A	10% Chrysotile
Room 456	Greyish Green with White Streaks 12x12 Floor Tile (Top Layer)	711DD-124A	6% Chrysotile
Room 458	Tan with White and Brown Streaks 9x9 Floor Tile	711DD-125A	2% Chrysotile
Room 460	Grey with Pink and White Streak 9x9 Floor Tile	711DD-126A	4% Chrysotile
Room 460	Light Green with Pink and Black Streaks 9x9 Floor Tile	711DD-127A	3% Chrysotile
Custodian Room Next to Room 461	Tan with White and Brown Specks 9x9 Floor Tile	711DD-128A	5% Chrysotile
Room 556	Concealed Bottom Vinyl Floor Tile (Assume 9x9) – Mixed Pattern	711DD-131A	19.9% Chrysotile*
Room 557A	Pea Green Mottled 12x12 Floor Tile	711DD-135A	2% Chrysotile
Room 554	Greenish Brown with Dark Green and White Splotches 12x12 Floor Tile	711DD-140A	4.5% Chrysotile
Room 305	Green with White Specks 12x12 Floor Tile	711DD-143A	3% Chrysotile
Room 316	Green with White Streaks 12x12 Floor Tile	711DD-144A	3% Chrysotile
Room 303	Cement Board Chalkboard	711DD-146A	30% Chrysotile
Room 322	Tan Glue Strips on Wood	711DD-148	2% Chrysotile
Room 419	Self-Stick Brown Floor Tile	711DD-168A	5% Chrysotile
Boiler Room	Cement Overcoat at Top of Boilers	811DD-176A	2% Chrysotile
Boiler Room	Tan Interior Door Blocking	811DD-177A	6% Chrysotile
Boiler Room	Friable Insulation at Boiler Top	811DD-181A	15% Chrysotile
Small Boiler Room	Debris on Floor	811DD-183A	3% Chrysotile
Boiler Tunnel	Preformed Block Type Pipe TSI	811DD-185A	20% Chrysotile 2% Amosite
Room 255	AirCell Pipe TSI	811DD-186A	15% Chrysotile 10% Amosite
Boiler Tunnel	Mudded Pipe Fittings	811DD-187A	8% Chrysotile 15% Amosite
Old Gym Girl's Shower	Transite Shower Stalls	812DD-192A	20% Chrysotile 5% Amosite
Room 251C	Brown Glue Daubs Associated with Luan Panels	812DD-193A	40% Chrysotile
Old Gym Girl's Shower	Yellow Mastic Associated with Ceramic Floor Tile	812DD-196A	2% Chrysotile
Room 218	Brown Mastic Associated with 4" Reddish Brown Vinyl Baseboard	812DD-203A	3% Chrysotile
Room 259A	6" (Thick) Black Vinyl Baseboard	812DD-208	3% Chrysotile

Sample Location	Material Type	Sample No.	Asbestos Content
Room 259A	Black Mastic Associated with 6" (Thick) Black Vinyl Baseboard	812DD-209A	6% Chrysotile
Room 456	Black Mastic Associated with 12x12 Floor Tile (Top Layer)	812DD-210D	4% Chrysotile
Room 259A	Black Mastic Associated with 9x9 Floor Tile (Bottom Layer) (Old HS Building)	812DD-211A	2% Chrysotile

*These samples were recommended for Transmission Electron Microscopy (TEM) analysis for verification, and TEM results confirmed presence of asbestos above 1% (discussed further below).

Utilizing the USEPA protocol and criteria, the following materials were determined not to contain asbestos.

Table 2
Non-Asbestos Containing Materials

Sample Locations	Material Type	Sample No.
Stair 7 and 9	Brown (Thick) Vinyl 12x12 Flooring with Diamond Pattern	818DD-01 A-B*
Stair 7 and 9	Tan Adhesive Associated with Brown (Thick) Vinyl 12x12 Flooring with Diamond Pattern	818DD-02 A-B*
Room 101	Subfloor/Sleeper Floor Tar Filler (Mastic)	818DD-07 A-B
Room 105	4" Light Brown Vinyl Baseboard	818DD-09A*
Room 105	Tan Mastic Associated with 4" Light Brown Vinyl Baseboard	818DD-10 A-B*
Library and Room 260	Brown Pliable Window Caulk Associated with Aluminum Frames	818DD-13 A-B*
Room 203	2" Brown Vinyl Baseboard	818DD-17A*
Room 205/205A	Brown/Tan, and Green Swirl 9x9 Floor Tile	818DD-22A*
Room 205/205A	Tan and Brown Swirl 9x9 Floor Tile	818DD-23A
Rooms 205/205A, 455, and 558	Black Paper Mastic Associated with 9x9 Floor Tile	818DD-24 A-C*
Room 207A – Raised Floor	Off-White with Cream and Brown Streaks 12x12 Floor Tile	818DD-26A
Room 207A/B	Beige with Cream and Brown Streaks 12x12 Floor Tile	818DD-27A
Rooms 214A/B and 557	Grey Mottled 12x12 Floor Tile	818DD-34 A-B*
Room 209 A/B	Brown and Tan Mottled 12x12 Floor Tile	818DD-35A*
Room 552	Bluish Green 12x12 Floor Tile	818DD-37A*
Room 550	Light Purple with Purple and White Streaks 12x12 Floor Tile	818DD-40A
Hallway Outside Room 550 - 554	Brown and Tan Mottled 12x12 Floor Tile	818DD-41A
Room 501	Reddish Pink with White Splotches 12x12 Floor Tile	818DD-44A
Room 502 (Stair and Closet)	Brown, Beige, and Tan Mottled 12x12 Floor Tile	818DD-47A*
Hallway Outside Former HS Office	Red Mottled 12x12 Floor Tile (Top Layer)	76DD-48A*

Sample Locations	Material Type	Sample No.
Hallway Outside Former HS Office	Grey/Yellow Mastic Associated with Red Mottled 12x12 Floor Tile	76DD-49 A-B*
Auditorium and Cafeteria	Pinkish Orange Mottled 12x12 Floor Tile	76DD-52 A&C
Library	1x1 Pegboard Type Ceiling Tile (Spline)	76DD-54A
Book Storage Room Off Library	Multi-Dot 2x4 Ceiling Tile	76DD-55A
Book Storage Room Off Library	Beige with White and Brown 9x9 Floor Tile	76DD-56A*
Library and Former HS Main Office	Yellow Carpet Glue	76DD-58 A-B
Former HS Main Office	White with Brown Splotches 9x9 Floor Tile	76DD-59A*
Library	Green 9x9 Floor Tile Beneath Carpet	76DD-61A*
Room 353	Fissured 2x2 Wallpaper	76DD-67A
Room 455 and Room 356A – Computer Lab Office	2x4 Fissure and Dot Ceiling Tile	76DD-68 A-B
Corner Bathroom HS Office Hall	1x1 White Ceiling Tile Above 2x4 Styrofoam Panels	76DD-69A
Rooms 350 - 353	4” Shiny Black Vinyl Baseboard	76DD-70A*
Rooms 350 - 353	Brown Mastic Associated with 4” Shiny Black Vinyl Baseboard	76DD-71 A-B*
Room 356 A/B	Tan Mastic Associated with Tan and White Mottled 12x12 Floor Tile Patch	76DD-82 A-B
Corner Bathroom HS Main Office Hallway	4” (Thick) Black Vinyl Baseboard	76DD-83 A-B
Corner Bathroom HS Main Office Hallway	Mastic Associated with 4” (Thick) Black Vinyl Baseboard	76DD-84 A-B
Room 317	Drywall Partition Wall	77DD-85 A-B
Room 317	Joint Compound	77DD-86 A-B
New Gym	Tectum Ceiling Panels	77DD-88 A-B
Cafeteria	Yellow Mastic Associated with 12x12 Floor Tile	77DD-89 A-B
Cafeteria and Auditorium	Red Mottled 12x12 Floor Tile	77DD-90 A-B
Auditorium	1x1 Pegboard (Large Hole) Ceiling Tile	77DD-91 A-C
Stage (Auditorium)	Black Flooring Paper	77DD-93 A-C
Left Practice Area Off Stage	Textured Ceiling Skim Coat	77DD-94 A-C
New Gym	Brown Flooring Paper	77DD-95 A-B
New Gym	Thick Brown Covebase	77DD-96 A-B*
New Gym	Tan/Yellow Mastic Associated with Thick Brown Covebase	77DD-97 A-C*
Cafeteria	2x2 Bumpy White Ceiling Tile	77DD-98 A-B
Cafeteria	4” Blue Vinyl Baseboard	77DD-99A
Cafeteria	White Mastic Associated with 4” Blue Vinyl Baseboard	77DD-100 A-C
Left Stage	2x4 Dotted Ceiling Tile	77DD-101 A-C
New Gym Boys Locker Room and Room 455	Paper Coating Associated with Fiberglass Ceiling Tile	77DD-102 A-C
Cafeteria	Drywall	77DD-103 A-C
Cafeteria	Joint Compound	77DD-104 A-C
Classroom Wing Typical Bathroom	2x4 White Drywall Ceiling Tile	711DD-105 A-C

Sample Locations	Material Type	Sample No.
Room 405	Maroon with Black and White Splotches 12x12 Floor Tile (Top Layer)	711DD-106 A-B
Room 451	Grey with Dark Grey and White Splotches 12x12 Floor Tile	711DD-451 A-B
Rooms 459 and 461	1x1 Smooth white Ceiling Tile	711DD-109 A-B
Room 462	Brown Corkboard Mastic	711DD-110 A-B*
Room 459	Paper Backing Associated with Fiberglass Insulation	711DD-111 A-B
Room 455 and Custodians Room Next to Room 461	Brown Glue Daubs Associated with Luan Paneling	711DD-114 A-B*
Hallway Outside Room 464	Orange/Brown with Brown and Tan Splotches 12x12 Floor Tile (Top Layer)	711DD-120 A-B
Custodial Room Next to Room 461	Brown Glue Associated with Wall Paneling	711DD-121 A-B
Room 462 (Upper)	Off White 1x1 Ceiling Tile	711DD-122 A-B
Classroom Wing (451)	Grey Leveling Compound at Thresholds	711DD-123 A-B
Room 464	Grey with Dark Grey and White Splotches 12x12 Floor Tile	711DD-129 A-B
Room 554A	Pink Sink Undercoat	711DD-130
Stair to Attic (561D)	Black Mastic on Brick	711DD-132
Rooms 554, 557, and 561	Black Composite Countertop	711DD-133 A-C
Rooms 557A and 560	Brown Corkboard Mastic	711DD-134 A-C
Hallway Outside 557A	Brown, Dark Brown, and Tan Mottled 12x12 Floor Tile (Top Layer)	711DD-136 A-B
Room 556	Orange/Red with Brown Splotches 12x12 Floor Tile	711DD-137 A-B
Room 562	Green with Dark Green and White 12x12 Stick-On Tile	711DD-138 A-B
Room 561	Grey with White Splotches 12x12 Floor Tile (Top Layer)	711DD-139 A-B
Room 300A	Brown Swirl Linoleum Flooring	711DD-141 A-B
Room 300A	Black Paper Coating Associated with Brown Swirl Linoleum Flooring	711DD-142 A-B
Bathrooms By Rooms 309 and 301A	White Ceramic Tile Grout Adhesive	711DD-145 A-B
Room 322	Off-White with Brown Specks 12x12 Floor Tile (2nd Layer)	711DD-147 A-B
Room 306	Grey Vinyl Baseboard	711DD-149 A-B*
Room 306	Brown mastic Associated with Grey Vinyl Baseboard	711DD-150 A-B*
Typical Bathrooms	Green Composite Stall Panels	810DD-151 A-B
Room 260	1x1 Stucco-Type Ceiling Tile	810DD-152 A-B
Room 260	Tan Mastic Associated with 1x1 Stucco-Type Ceiling Tile	810DD-153 A-B
Basement Boy's Bathroom and Girl's Bathroom Next to Room 256	Grey Adhesive Associated with Ceramic Wall Tile	810DD-154 A-B

Sample Locations	Material Type	Sample No.
Room 258	Cementitious Leveling Compound on Poured Concrete	810DD-155 A-B
Rooms 258 and 260	Brown Glue Daubs Associated with 1x1 Ceiling Tile (Beneath Stairs Only)	810DD-156 A-B
Room 258 and Girl's Bathroom Next to Room 256	1x1 Pinhole Ceiling Tile	810DD-157 A-B
Typical Bathrooms	Brown Paper Inside Stall Panels	810DD-158 A-B
Typical Bathrooms	2x4 Drywall Ceiling Tiles	810DD-159 A-B
Boy's Bathroom Next to Room 260 and Girl's Bathroom Next to Room 256	Lightweight Concrete Beneath Wall Tile	810DD-160 A-B
Basement Corridor Old HS Building	Rough Plaster Drop Ceiling	810DD-161 A-C
Cafeteria Hallway (To Room 255)	Tan Window Glazing Compound Associated with Interior Wood Sashes	810DD-162 A-B
Basement Corridor Old HS Building	Textured Skim Plaster	810DD-163 A-C
Room 258	6" Black Vinyl Baseboard	810DD-164 A-B*
Room 258	Dark Brown Mastic Associated with 6" Black Vinyl Baseboard	810DD-165 A-B*
Room 256 Mechanical Closet	Cementitious Penetration Sealant	810DD-166 A-B
Room 408	Brown Paper Beneath Wood Floor	711DD-167 A-B
Room 452 Closet	Tan with Red Swirl pattern Linoleum Flooring	711DD-169 A-B
Room 410	Light Blue/Grey Mottled 12x12 Floor tile	711DD-170 A-B
Room 411	Light Beige Floor Tile (2nd Layer)	711DD-171 A-B
Room 413	Off-White with Brown Specks 12x12 Floor Tile	711DD-172 A-B
Boiler Room	Black Pipe Gasket	811DD-173 A-B
Boiler Room	Grey Interior Door Caulk to Ground Level Exterior	811DD-174A
Boiler Room	Residual Black Duct Seam Sealant Associated with Saw Dust Exhaust	811DD-175A
Boiler Room	Sealant at Front Boiler Panel	811DD-178 A-B
Boiler Room Office	Skim Coat on Concrete Ceiling	811DD-179 A-B
Boiler Room	Interior Boiler Debris	811DD-180 A-B
Room 261A Closet and Small Boiler Room	White/Tan Cloth Vibration Isolator	811DD-182 A-B
Small Boiler Room	Tan Pipe Thread Sealant	811DD-184 A-B
Old Gym	Textured Ceiling Skim Coat	812DD-188 A-C
Old Gym Boy's Locker Room	Tan Adhesive a/w Ceramic Wall Tile	812DD-189 A-B
Room 114 and Old Gym Girl's Locker Room	Black Building Paper Beneath Wood Floor	812DD-190 A-B
Science Basement Hall	Poured Concrete Floor	812DD-191 A-B
Woodshop Hallway	Door Glazing Compound	812DD-194 A-B
Old Gym	Thick Black Vinyl Baseboard (Right Angle)	812DD-195*
Old Gym	Brown Mastic Associated with Thick Black Vinyl Baseboard	812DD-195 A-B*

Sample Locations	Material Type	Sample No.
Old HS Office Area and Room 258	Cloth Wall Covering	812DD-197 A-B
HS Main Office	4" Dark Brown Vinyl Baseboard	812DD-198A*
HS Main Office	Dark Brown Mastic Associated with 4" Dark Brown Vinyl Baseboard	812DD-199 A-B*
Rooms 108, 550, and 557	Tan/Yellow Mastic Associated with Floor Tile (Top Layer)	812DD-200 A-C
Room 502A and Hallway Outside Room 550 - 554	Yellow/Clear Mastic Associated with 12x12 Floor Tile (Top Layer)	812DD-201 A-B
Room 218	4" Reddish Brown Vinyl Baseboard	812DD-202A
Rooms 456 and 550	Top Layer White Mastic Associated with Vinyl Baseboard	812DD-204 A-B
Room 224	4" Black Vinyl Baseboard	812DD-205
Room 458	6" Black (Thin) Vinyl Baseboard	812DD-206
Room 458	Dark Brown Mastic Associated with 6" Black (Thin) Vinyl Baseboard	812DD-207 A-B
Rooms 105, 203, and Boiler Room	Black Mastic Associated with 9x9 Floor Tile	812DD-212 A-D*
Auditorium Wall, Auditorium Inlay Panel, Auditorium Balcony Ceiling, Room 251C Wall, Science Hall Low Ceiling, Kitchen Ceiling, Grand Entry Wall	Plaster Skim Coat	812DD-213 A-G
Auditorium Wall, Auditorium Inlay Panel, Auditorium Balcony Ceiling, Room 251C Wall, Science Hall Low Ceiling, Kitchen Ceiling, Grand Entry Wall	Plaster Rough Coat	812DD-214 A-G
Old HS Entry Wall, Old Gym Girl's Locker Room Ceiling, Room 109 Woodshop Ceiling, Room 258 Lower Wall, Room 356 Wall, Room 451 Wall, and Room 501 Wall	Plaster Skim Coat Associated with Horsehair Plaster	812DD-215 A-G
Old HS Entry Wall, Old Gym Girl's Locker Room Ceiling, Room 109 Woodshop Ceiling, Room 258 Lower Wall, Room 356 Wall, Room 451 Wall, and Room 501 Wall	Plaster Rough Coat Associated with Horsehair Plaster	812DD-216 A-G

*Material type confirmed as non-asbestos by additional TEM analysis

2.2 Results of Asbestos Analysis by TEM

The USEPA has suggested that materials that are non-friable organically bound materials such as mastic adhesives, etc., are recommended for further confirmatory analysis utilizing Transmission Electron Microscopy (TEM). Thirty-nine of the samples analyzed by PLM were also analyzed by TEM for verification purposes. The results of TEM analysis, which are summarized below in *Table 3*, indicated that seven of the 39 samples originally reported as none detected by the PLM analysis, did in fact contain asbestos at concentrations greater than 1%, and were therefore categorized as ACM.

Table 3
Materials Analyzed By TEM

Sample Location	Material Type	Sample No.	Asbestos Content
Stair 7 (Landing and Stair Tread)	Brown (Thick) Vinyl 12x12 Flooring with Diamond Pattern	818DD-01A	ND
Stair 7 (Landing and Stair Tread)	Tan Adhesive a/w Brown (Thick) Vinyl 12x12 Flooring with Diamond Pattern	818DD-02A	ND
Room 105	4" Light Brown Vinyl Baseboard	818DD-09A	ND
Room 105	Tan Mastic Associated with 4" light Brown Vinyl Baseboard	818DD-10A	ND
Library	Brown Pliable Window Caulk at Aluminum Frame	818DD-13A	ND
Room 203	2" Brown Vinyl Baseboard	818DD-17A	ND
Room 203	Mastic Associated with 2" Brown Vinyl Baseboard	818DD-18A	4.6% Chrysotile
Room 205/205A	Brown, Tan, and Green Swirl 9x9 Floor Tile	818DD-22A	ND
Office Area (205/205A)	Black Paper Mastic Associated with 9x9 Floor Tile	818DD-24A	<0.25% Chrysotile
Room 214A/B	Grey Mottled 12x12 Floor Tile	818DD-34A	ND
Room 209A/B	Brown and Tan Mottled 12x12 Floor Tile	818DD-35A	ND
Room 552	Bluish Green 12x12 Floor Tile	818DD-37A	ND
Room 502 (Stair and Closet)	Brown, Beige, and Tan Mottled Floor Tile	818DD-47A	ND
Hallway Outside Former HS Office	Red Mottled 12x12 Floor Tile (Top Layer)	76DD-48A	ND
Hallway Outside Former HS Office	Grey/Yellow Mastic Associated with Red Mottled 12x12 Floor Tile (Top Layer)	76DD-49A	0.45% Chrysotile
Hallway Outside Former HS Office	Grey Vinyl Floor Tile Beneath Plywood Underlayment	76DD-50A	3.2% Anthophyllite
Hallway Outside Former HS Office	Blue Vinyl Floor Tile Beneath Plywood Underlayment	76DD-51A	28.2% Chrysotile

Sample Location	Material Type	Sample No.	Asbestos Content
Library Book Storage Room	Beige with White and Brown 9x9 Floor Tile	76DD-56A	0.68% Chrysotile
Former HS Main Office	Brownish Grey with White and Brown Specks 9x9 Floor Tile	76DD-57A	1.9% Chrysotile
Former HS Main Office	White with Brown Splotches 9x9 Floor Tile	76DD-59A	ND
Library	Green 9x9 Floor Tile Beneath Carpet	76DD-61A	ND
Rooms 350 - 353	4" Shiny Black Vinyl Baseboard	76DD-70A	ND
Rooms 350 - 353	Brown Mastic Associated with 4" Shiny Black Vinyl Baseboard	76DD-71A	ND
New Gym	Thick Brown Baseboard	77DD-96A	ND
New Gym	Tan/Yellow Mastic Associated with Thick Brown Baseboard	77DD-97A	ND
Room 462	Brown Corkboard Mastic	711DD-110A	ND
Room 455	Brown Glue Associated with Luan Paneling	711DD-114A	ND
Hallway Outside Room 464	Concealed Grey Vinyl Floor Tile underneath Plywood Underlayment	711DD-117A	4.3% Anthophyllite
Room 556	Concealed Bottom Vinyl Floor Tile (Assume 9x9) – Mixed Pattern	711DD-131A	19.9% Chrysotile
Room 554	Greenish Brown with Dark Grey and White Splotches 12x12 Floor Tile	711DD-140A	4.5% Chrysotile
Room 306	Grey Vinyl Baseboard	711DD-149A	ND
Room 306	Brown Mastic Associated with Grey Vinyl Baseboard	711DD-150A	ND
Room 258	6" Black Vinyl Baseboard	810DD-164A	ND
Room 258	Dark Brown Mastic Associated with 6" Black Vinyl Baseboard	810DD-165A	ND
Old Gym	Thick Black Vinyl Baseboard (Right Angle)	812DD-195	ND
Old Gym	Brown Mastic Associated with Thick Black Vinyl Baseboard (Right Angle)	812DD-195A	ND
HS Main Office	4" Dark Brown Vinyl Baseboard	812DD-198A	>0.25% Chrysotile
HS Main Office	Dark Brown Mastic Associated with 4" Dark Brown Vinyl Baseboard	812DD-199A	>0.25% Chrysotile
Room 105	Black Mastic Associated with 9x9 Floor Tile	812DD-212A	ND

ND = None Detected

The results of confirmatory analysis by TEM did identify asbestos at greater than 1% for some of the analyzed materials. The materials have been included in *Table 1* or *Table 2* above, as appropriate, based on the confirmatory analysis. Those materials containing asbestos have also been included in the

following *Table 4*, and cost estimate. Refer to *Appendix C* for TEM results, including applicable data validation materials.

2.3 Asbestos Analysis Conclusions

Materials confirmed to contain asbestos by the PLM and TEM methods, along with an estimate of the quantity of those materials, are included in the *Table 4*, below. *Table 4* identifies the location, material type, and quantity of ACM identified during this assessment. Any suspect material not characterized during this assessment should be presumed to contain asbestos.

Table 4
Estimated Quantities of Asbestos Containing Materials

Sample Location	Material Type	Estimated Quantity
Throughout School	9x9 / 12x12 Floor Tile (All Layers) & Associated Mastics (Includes Removal of Plywood Underlayment & Flooring Layers)	150,000 SF
Classrooms, Offices, Gymnasiums, Cafeteria, Auditorium, Boiler Tunnels, Boiler Breeching, Classroom Risers, Mechanical Areas, and Basement Wings	AirCell, Pre-Formed Block Type Insulation & Associated Mudded Fittings	10,000 SF
Typical (Exterior) Windows	Caulk at Brick Molding Concealed underneath Aluminum Window Frames	All Windows (Approx. 646 EA)
Main Boiler Room	Boiler Demolition: Includes Removal of All Interior Boiler Debris, Concealed Interior Friable Components, Interior Door Blocking, Firebrick, Millboard, Rib-Sealant Material, Boiler Foundation, and Associated Gaskets, etc.	4 EA (10'x22'x12'h / Boiler)
Main Boiler Room	Friable Insulation & Cement Overcoat at Top of Boilers	1,100 SF
Small Boiler Room	Asbestos Debris on Concrete Floor	500 SF
Throughout School (e.g. Projector Room)	Cement Fiber Board (Transite Panels)	1,550 SF
Classrooms	Cement Fiber Board Associated with Classroom Chalkboards	10 EA
Classrooms (e.g. Home Economics)	Sink Undercoating Material at Classrooms	12 EA
Classrooms and Offices	2" Brown Vinyl Baseboard & Associated Mastic at Classrooms	1,500 LF
Classrooms and Offices	4" Reddish-Brown Vinyl Baseboard & Associated Mastic	2,000 LF
Classrooms and Offices	6" (Thick) Black Vinyl Baseboard & Associated Mastic at Classrooms	700 LF
Girls Locker Room (Old Gym)	Yellow Mastic Associated with Ceramic Floor Tile	750 SF
Offices	Brown Glue Daubs Associated with Luan Wall Paneling at Offices	3,000 SF

Sample Location	Material Type	Estimated Quantity
Classrooms	Tan Glue Strips On Wood at Classrooms	2,000 SF
(Interior) Hallway Doors at Classroom Wings	Window-Glazing Compound Associated with	10 EA

LF = Linear Feet, SF = Square Feet

Materials determined to contain asbestos that are anticipated to be impacted by any proposed renovation and/or demolition work must be abated by a licensed asbestos abatement contractor prior to disturbance. This includes both friable and non-friable ACM materials. This is a requirement of RIDOH, RIDEM, and USEPA NESHAP standards for asbestos abatement.

Fuss & O'Neill also recommends that a comprehensive scope of work and technical specification be developed as part of renovation plans for the site. In addition, an asbestos abatement plan must be prepared and submitted to RIDOH for review and approval. The plan must be prepared by a certified asbestos project designer, and be approved prior to disturbance during demolition or renovations.

We have developed an opinion of cost for the removal of the identified ACM, which is included as *Appendix H*. The estimated cost is inclusive of removing all identified ACM, and a more limited scope can be tailored to any specific renovation work as necessary.

Any suspect material encountered during renovation/demolition that is not identified in this report as being non-ACM should be assumed to be ACM unless sample results prove otherwise.

3 Lead-Based Paint Determination

A lead-based paint determination was performed for representative building components by Fuss & O'Neill representative Mr. Jonathan Hand, on July 6 and 7, 2011. An X-ray fluorescence (XRF) analyzer was used as a field screening tool to perform the lead-based paint determination. The testing was conducted in accordance with the protocol outlined in the site-specific *QAPP Addendum*.

The XRF utilized for the lead-based paint determination was an RMD X-Ray Fluorescence Analyzer, Serial No. 1138. The instrument was checked for proper calibration prior to each use as detailed by the manufacturer and the Performance Characteristic Sheet (PCS) developed for the instrument.

For the purpose of this lead-based paint determination, representative building components were tested in situ. The tested components were selected by identifying homogenous painted surfaces by location to result in a representative evaluation of painted surfaces throughput the structure. Due to site conditions, the age of the building, and the limited nature of the lead-based paint determination conducted at the site, all individual repainting efforts were not discoverable, and therefore all historical painted surfaces may not have been included in the evaluation.

Lead-based paint issues involving properties that are not residential are regulated to a limited degree to protect workers involved in paint-disturbing work activities and waste disposal. Worker protection is regulated by OSHA as well as RIDOH regulations. These regulations involve air monitoring of workers to determine exposure levels when disturbing lead-containing paint. A lead-based paint determination

cannot determine a safe level of lead, but is intended to provide guidance as to the locations of lead-based paint considered characteristic by industry standards for lead in paint. Contractors may then better determine exposure of workers to airborne lead by understanding the different concentrations of lead paint on representative components and surfaces. Air monitoring can then be performed during activities that disturb paint on representative surfaces.

A concentration of lead exceeding the lead-free standard of 150 milligrams per kilogram (mg/kg) is considered lead-paint in accordance with RIDOH regulations for residential dwelling units and child care facilities. Use of XRF alone for testing cannot fully determine compliance with lead-free standards. As an industry standard, painted surfaces with an XRF screening result greater than 1.0 milligrams of lead per square centimeter (mg/cm^2) are typically expected to exceed the lead-free standard of 150 mg/kg. Screening results less than 1.0 mg/ cm^2 typically require collection and laboratory analysis of paint chip samples for confirmation of the lead concentration by mass. For purpose of this lead-based paint determination, the level of 1.0 mg/cm^2 has been utilized as a threshold for areas where possible worker exposures may occur.

3.1 Lead-Based Paint Screening Results

The complete field-screening results of lead-based paint determination documented herein are included in *Appendix D*, and summarized below. The lead-based paint determination indicated consistent painting trends associated with representative building components that may be impacted by possible renovation work. Numerous painted components were determined to contain levels of lead greater than 1.0 mg/cm^2, including the following:

Table 5
Lead XRF Screening Results

Location	Item	Xrf Reading (Mg/Cm^2)
Main Entrance	BCD Wall	1.5
Main Entrance	AC Molding	6.2
Room 360	Lower Walls	1.6 – 2.3
Room 360	Radiator	3.2
Room 360	Safe	6.2
Room 360B	ABC Upper Wall	1.0
Room 360B	ABC Lower Wall	2.2
Room 360B	Radiator	3.2
Room 360C	Upper Wall	1.0
Room 360C	Lower Wall	1.3
Room 360C	Radiator	3.2
Library Hall	BD Wall	0.0 – 1.0
Library Hall	BD Lower Wall	1.0
Storage Closet Across From Room 355B	Wall	1.0
Stair 15	Wall	2.2

Location	Item	Xrf Reading (Mg/Cm²)
Stair 15	Newel Post	1.3
Stair 15	Baluster	1.0
Stair 15	Stringer	1.0
Stair 15	Riser	1.0
Room 362	Upper Wall	1.3
Room 362	Lower Wall	1.0
Room 362	Radiator	2.5
Room 357 Library	BCD Upper Wall	2.5
Room 357 Library	BCD Lower Wall	1.7
Room 357 Library	Radiator	3.4
Rooms 355, 355A, and 355B	Upper Wall	1.2
Rooms 355, 355A, and 355B	Lower Wall	3.3
Rooms 355, 355A, and 355B	Radiator	3.2
Library Work Room	BCD Upper wall	1.6
Library Workroom	BCD Lower Wall	2.3
Library Workroom	Radiator	3.3
Room 358	Wall	1.0 – 2.3
Room 358	Radiator	3.0
Room 356	Wall	1.3
Room 354	Wall	2.2
Room 354	Radiator	3.1
Room 456	Wall	0.8 – 1.7
Room 456	Radiator	3.1
Room 458	ACD Wall	1.1
Room 458	Radiator	3.3
Room 460	B Wall	1.5
Room 460	Radiator	3.2
Room 462	Wall	1.2 – 5.0
Room 462	Molding	1.0
Room 464	Wall	1.0 – 2.2
Room 464	Radiator	3.0
Room 463	Wall	1.5 – 3.0
Room 463	Radiator	3.0
Room 454	BCD Wall	1.3 – 2.0
Room 454	Radiator	3.1
Room 556	Wall	1.1 – 2.5
Room 556	Radiator	3.1
Room 558 & 560	Wall	1.6
Room 558 & 560	Radiator	3.3
Hall Outside Room 558	Wall	0.8 – 1.2
Room 562	Wall	1.2 – 2.5
Room 562	Radiator	3.1
Room 561	Wall	1.1 – 2.6
Room 561	Radiator	3.0
Room 561A	Wall	1.0
Room 561A	Baluster	1.0
Room 559	Wall	0.7 – 1.2

Location	Item	Xrf Reading (Mg/Cm²)
Room 559	Radiator	3.1
Rooms 554, 555, and 557	Wall	0.7 – 1.7
Rooms 554, 555, and 557	Radiator	3.1
Room 554A	Wall	1.0
Room 256	Radiator	1.1
Girl's Bathroom Near Room 256	Ceramic Tile	2.3
Girl's Bathroom Near Room 256	Wall	1.0
Room 258	Wall	1.2
Room 260	BCD Wall	1.0
Boy's Bathroom Near Room 260	Wall	1.6
Boy's Bathroom Near Room 260	Radiator	1.6
Room 262	Wall	2.5
Hall Outside 262	Wall	1.0
Rooms 261 & 261A	CD Wall	0.3 – 2.3
Rooms 261 & 261A	Radiator	1.3
Room 257A & B	Wall	1.4
Room 259 and 259A	Wall	0.0 – 1.1
Room 255	Wall	0.0 – 1.5
Room 253	Wall	0.3 – 1.6
Room 254	Wall	0.6 – 1.2
Room 254	Radiator	2.2
Rooms 350, 351, 352, and 353	Radiator	1.4
Stairwell Outside Room 350	Newel Post	1.3
Stairwell Outside Room 350	Baluster	1.3
Stairwell Outside Room 350	Stringer	1.3
Stairwell 4, 6, 7, and 9	Door Frame	8.3
Stairwell 4, 6, 7, and 9	Radiator	3.1
Room 324	Ceiling	1.8
Room 324	Safe	7.3
Upper Auditorium	Walls	0.8 – 1.2
Room 309, 311, 313, 314, 316, 318, and 320	Wall	0.2 – 1.0
Room 309, 311, 313, 314, 316, 318, and 320	Radiator	1.5
Hall Outside Room 309B	Wall	0.1 – 1.1
Room 312	Radiator	1.3
Room 301, 302, 303, 305, 307, 308, and 310	Wall	0.7 – 6.4
Room 301, 302, 303, 305, 307, 308, and 310	Radiator	0.0 – 1.2
Room 306	Wall	0.2 – 7.0
Room 306	Radiator	1.3
Room 300A	Lower Wall	5.8
Room 300A	Radiator	1.3
Room 300	Upper Wall	6.0
Room 300	Radiator	1.2
Auditorium Stage	Radiator	1.1
Auditorium Stage	Spiral Stair	1.0

Location	Item	Xrf Reading (Mg/Cm²)
Cafeteria	Wall	4.0
Cafeteria	C Block wall	3.3
HS Gym	Support Beam	1.3
HS Gym	Bleacher Stringer	1.4
HS Gym	Bleacher Riser	1.5
Stairwell to Bleachers	Lower Wall	1.1
Stairwell to Bleachers	Stringer	1.3
Locker Rooms	Green Block Wall	1.1
Room 450, 451, 452, and 453	Radiator	1.7
Room 419	Lower Wall	1.9
Room 419	Radiator	1.8
Room 424	Wall	1.0
Room 424	C Handrail	3.0
Room 424	Radiator	1.9
Rooms 413, 415, and 417	Lower Wall	2.8
Rooms 413, 415, and 417	Radiator	1.9
Rooms 400, 401, 403, 404, 405, 406, 407, 409, 410, 411, 412, 416, 418, 420, and 422	Upper Wall	0.7 – 1.0
Rooms 400, 401, 403, 404, 405, 406, 407, 409, 410, 411, 412, 416, 418, 420, and 422	Lower Wall	2.6 – 7.0
Rooms 400, 401, 403, 404, 405, 406, 407, 409, 410, 411, 412, 416, 418, 420, and 422	Radiator	0.1 – 1.7
Hall Outside Room 418	Upper Wall	0.5 – 1.0
Hall Outside Room 418	Lower Wall	6.8
Room 414	Upper Wall	0.6 – 1.1
Room 414	Lower Wall	>9.9
Room 414	Radiator	1.3

POS = assumed positive

3.2 Lead-Based Paint Screening Conclusions

The present vacant status of the building does not currently subject this facility to the requirements of the RIDOH Rules and Regulations for Lead Poisoning Prevention R23-24.6-PB. In addition, the building is not considered a "child occupied facility" and therefore not subject to current RI Renovation Repair and Painting (RRP) rules. The results of the testing performed using XRF for this presently non-regulated facility were intended to provide documentation for potential worker exposures during any proposed renovation activities and for waste characterization purposes. Building components containing lead may cause worker exposures to lead above OSHA standards during demolition and renovation activities.

OSHA published a Lead in Construction Standard (OSHA Lead Standard) 29 CFR 1926.62 in May 1993. The OSHA Lead Standard has no set limit for the content of lead in paint below which the

standards do not apply. The OSHA Lead Standards are task-based and are based on airborne exposure and blood lead levels. Contractors must comply with exposure assessment criteria, interim worker protection, and other requirements of the regulation as necessary to protect workers during any renovation work which will impact lead paint.

Lead paint was identified on the numerous building components listed in *Table 5*, including, but not limited to, plaster walls and ceilings, brick walls, metal support columns, interior staircase components, interior door components, and trim/support pieces. The lead screening was carried out as part of a preliminary investigation for renovation planning purposes. However, Fuss & O'Neill understands that there are no definitive demolition or renovation activities scheduled at this time; the lead screening was carried out as part of a preliminary investigation for a project feasibility study. Any future work involving surface preparation or demolition of the identified lead-painted surfaces should be performed in accordance with OSHA worker protection requirements.

4 Waste Characterization for Lead

A waste is a solid or liquid material that one no longer uses. A waste is defined by USEPA to be hazardous if it contains certain properties that could pose dangers to human health and the environment after it is discarded. Wastes that are ignitable, corrosive, reactive, or contain certain toxic metals and chemicals are regulated under the Hazardous Waste Regulations. The Toxicity Characteristic Leaching Procedure (TCLP) is a sample preparation method utilized in RCRA hazardous waste determinations, that extracts the compounds of interest in a manner that simulates landfill conditions (40 CFR 261).

To determine if a building material waste stream to be generated during renovation or demolition activities may be considered a hazardous waste due to the presence of lead based paint, representative samples of the waste stream would need to be analyzed for TCLP lead. The analytical results are then compared to a concentration of 5.0 milligrams per liter (mg/L), which is the hazardous waste threshold under RCRA. If the result is below the established level, the material may not require management as a hazardous waste.

4.1 Lead Waste Characterization Sampling

On August 18, 2011, Fuss & O'Neill representatives, Mr. Dustin A. Diedricksen and Mr. Stephen Moulton, collected representative aliquots of various materials from the building. Painted material substrates such as concrete, wood, and sheetrock were segregated in accordance with previous lead paint screening data and representative composite samples were collected. In total, five samples, including four primary samples and one duplicate sample, were collected and submitted for analysis of lead by USEPA SW-846 methods, utilizing the TCLP extraction process, at Premier Laboratory of Dayville, Connecticut (Premier).

These samples were collected to characterize a potential waste stream that may result from selective demolition and/or renovation work at the site. While these composite samples may not specifically represent the actual waste stream generated during any future renovation activities, they were collected

to gauge the potential for the lead concentrations in painted surfaces in typical building materials to cause the anticipated waste stream to require management as a hazardous waste.

4.2 Lead Waste Characterization Results

The laboratory report for the waste characterization TCLP lead analysis and applicable data validation materials are provided as *Appendix E* in this report. The results of the primary and duplicate composite TCLP lead analyses are summarized below.

Table 6
TCLP Lead Waste Characterization Results

Sample Location	Material Type	Sample No.	Result (Mg/L)
1915 Building	Building Materials	818DD-TCLP-01	0.050
1915 Building	Building Materials	818DD-TCLP-02	0.080
Addition/Class Room Wing	Building Materials	818DD-TCLP-03	0.79
Newer Gym/Auditorium	Building Materials	818DD-TCLP-04	0.44
Newer Gym/Auditorium (Duplicate)	Building Materials	818DD-TCLP-05	0.18

4.3 Lead Waste Characterization Conclusion

RCRA defines a hazardous concentration for lead as greater than 5.0 mg/L. The analytical results for the composite samples of building materials indicated a concentration of lead less than the RCRA threshold for a hazardous waste. These results suggest that a building material waste stream consistent with the types and ratio of materials represented by the composite samples would not likely require disposal as a hazardous waste.

At such a time when renovations or demolition activities are conducted at the site, additional characterization of the generated waste stream may be necessary.

5 Lead Paint Chip Analysis

5.1 Lead Paint Chip Sampling

On August 12, 2011, Fuss & O'Neill representative, Mr. Dustin Diedricksen, collected a total of 11 paint chip samples, including 10 primary samples and 1 duplicate sample, from representative surfaces throughout the former Woonsocket Middle School. Paint chip samples were collected using the following procedures to confirm lead content identified with XRF:

a) Paint chips from targeted surfaces were carefully loosened and removed using a hand scraper. Plastic was placed under areas to be tested to prevent release of chips to the ground. The surfaces sampled were chosen based on the XRF screening results discussed in Section 3. Painted surfaces that elicited an XRF response close to the threshold value of 1.0 mg/cm² were targeted for laboratory analysis, as well as a collection of confirmatory samples which elicited an XRF screening result greater than 1.0 mg/cm².

b) A section of paint two inches by two inches was removed. All layers down to, but not including, the substrate were included in the sample.

c) Each sample was individually containerized and identified with a unique sample number to designate the location of the sample.

d) The samples were submitted to Premier using proper chain of custody for Atomic Absorption Spectrometry analyses for lead by Method 6010B.

5.2 Lead Paint Chip Results

Analytical results, chains of custody, and applicable data validation materials for the paint chip sampling activities can be found in *Appendix F*. The laboratory analytical results are summarized in *Table 7,* which identifies the samples by location, sample number, and lead content.

Table 7
Paint Chip Sample Lead Results

Sample Location	Sample Number	Result (Mg/Kg)
Boiler - Black	812DD-01	3,000
Boiler Room Walls – Silver	812DD-02	640
Boiler Room Walls – Red	812DD-03	260
Auditorium Walls	812DD-04	6.0
Auditorium Balcony Ceiling	812DD-05	6,600
New Gym – Boy's Locker Room Walls	812DD-06	1.4
New Gym - Support Beams	812DD-07	9,200
Cafeteria Walls	812DD-08	30
Old Gym Walls	812DD-09	2,300
Old Gym – Girl's Locker Room	812DD-10	18

Sample Location	Sample Number	Result (Mg/Kg)
Auditorium Walls (Duplicate)	812DD-11	10

These analytical laboratory results were compared to the RIDOH standards for lead-free and lead safe concentrations. RIDOH classifies paint to be lead-free when the lead concentration is less than 150 mg/kg. Paint containing lead at concentrations greater than 150 but less than 600 mg/kg is considered by RIDOH as lead-safe. Paint containing lead at concentrations in excess of 600 mg/kg that is intact is also considered by RIDOH as lead safe. The results in *Table 7* in bold text exceed 600 mg/kg.

The cost estimate included in *Appendix H* includes estimated allowances for OSHA lead compliance during renovation and demolition work as well as potential disposal of lead waste from demolition and disposal of removed components and surfaces.

6 PCB Bulk Product and Substrate Assessment

6.1 Background

PCBs are regulated under the Federal *Toxic Substances Control Act* (*TSCA*; 40 CFR 761). Prior to 1979, PCBs were freely used in industry as additives in a wide variety of chemical products, including building materials where long-term plasticity and insulation were necessary. These uses included mastics, adhesives, sealants, caulking, paint, and insulation. PCB production in the United States was categorically banned in 1979 with the exception of PCBs incidentally generated in the production of other chemicals (such as plastics or pesticides with similar chemical structures).

TSCA describes various uses of PCBs and categorically bans any use which is not authorized under 40 CFR 761.30. PCBs have never been authorized under *TSCA* for use in building materials. Therefore, PCBs in building materials constitute unauthorized uses and, unless excluded from further regulation, these materials must be removed in accordance with *TSCA*. The following definitions are pertinent to the discussion of *TSCA* implications of PCBs in building materials:

- PCB Bulk Products are materials containing PCBs at concentrations equal to or greater than 50 ppm. These materials are designated as "PCB Bulk Product Wastes" at the time when they are removed from service.

- PCB Remediation Waste is any material containing detectable concentrations of PCBs associated with the removal of a bulk product waste (examples may include porous or non-porous surfaces, such as window frames adjacent to PCB-contaminated caulking, which retain a PCB residue following caulking removal). For high occupancy uses, porous PCB remediation waste materials must be removed during PCB cleanup activities to a final concentration less than or equal to 1.0 ppm unless specifically approved by USEPA alongside engineering controls.

- Excluded PCB products are products which contain concentrations of PCBs less than 50 ppm which were generated and distributed in commerce prior to 1984 or were generated in an excluded process (such as the incidental PCB generation during pesticide manufacture described above). If claiming this exclusion for materials containing concentrations of PCBs greater than

1 ppm, the burden of proof lies with the generator to prove that the materials were used prior to 1984 or the PCBs were incidentally generated and are, therefore, excluded from regulation.

Sampling of building materials for PCBs is not presently mandated by the USEPA. However, PCB disposal carries significant liability risk, and contractors and disposal facilities have identified PCBs in building materials during disposal of C&D waste, leading to substantial project delays and cost overruns from the unplanned expense of PCB remediation and disposal. Because building materials are not considered an authorized use of PCBs, the discovery of PCBs in building materials (unless these materials are "excluded") triggers an owner's obligation to remove the PCBs from the site. Unlike ACM and lead in building materials, which need not be removed unless renovation will affect the materials, unauthorized PCBs must be removed regardless of the scope of the renovation project.

Additionally, PCBs have been documented to migrate from bulk product materials into adjacent porous substrates (plaster, concrete, wood) and contaminate surrounding materials, leading to an expanded scope of demolition solely for PCB removal. These materials, as PCB remediation wastes, must be remediated to PCB concentrations often orders of magnitude less than the concentration of the source material, typically at a substantial cost. The required clean-up standards depend on the type of substrate (i.e. porous versus non-porous) and the occupancy status (i.e. high or low as defined in 40 CFR 761) of the building. For porous media with high or unrestricted occupancy, PCBs must be remediated to a maximum concentration of 1.0 ppm, or engineering controls to prevent human exposure must be implemented.

6.2 Initial PCB Bulk Product Sampling

On August 18, 2011, Fuss & O'Neill's representatives, Mr. Dustin A. Diedricksen and Mr. Stephen Moulton, collected 34 bulk samples of building materials to be analyzed for PCBs. As multiple samples of each homogeneous material type were typically collected for quality control purposes, as detailed in the *QAPP Addendum,* samples specifically identified as duplicates were not collected. .

Sampling involved removal of bulk product materials (source materials) using hand tools for laboratory analysis to determine PCB content. Tools utilized to collect samples were disposable items and discarded after each individual sample was collected to avoid cross contamination of samples. Each sample was placed in an individual container, labeled, and delivered to Premier using proper chain of custody. Samples were extracted by Premier using USEPA Method 3540 (Soxhlet) and analyzed for PCBs by USEPA Method 8082.

6.2.1 Initial PCB Bulk Product Sampling Results

Laboratory results of samples analyzed for PCBs and applicable data validation materials are included in *Appendix G*. The following table summarizes the 34 samples by location, material type, sample number, and reported PCB concentration.

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Table 8
PCB Bulk Product Sample Results

Sample Location	Material Type	Sample No.	Pcb Content (Mg/Kg)
Old Gym	Poly Floor	914110818-PCB-01A	ND
Old Gym	Poly Floor	914110818-PCB-01B	ND
Old Gym	Poly Floor	914110818-PCB-01C	ND
Old Gym	Sleeper Floor	914110818-PCB-02A	ND
Old Gym	Sleeper Floor	914110818-PCB-02B	ND
Old Gym	Sleeper Floor	914110818-PCB-02C	ND
Old Gym	Mastic on Concrete	914110818-PCB-03A	ND
Old Gym	Mastic on Concrete	914110818-PCB-03B	ND
Old Gym	Mastic on Concrete	914110818-PCB-03C	ND
Old Gym Girl's Locker Room	Black Mastic Paper	914110818-PCB-04A	ND
Old Gym Boy's Locker Room	Black Mastic Paper	914110818-PCB-04B	ND
Old Gym Boy's Locker Room	Black Mastic Paper	914110818-PCB-04C	ND
Room 114	Black Mastic beneath Wood Floor	914110818-PCB-05A	ND
Room 114	Black Mastic beneath Wood Floor	914110818-PCB-05B	ND
Room 114	Black Mastic beneath Wood Floor	914110818-PCB-05C	ND
Room 109	Black Mastic on Concrete	914110818-PCB-06A	ND
Room 109	Black Mastic on Concrete	914110818-PCB-06B	ND
New Gym	Poly	914110818-PCB-07A	ND
New Gym	Poly	914110818-PCB-07B	ND
New Gym	Poly	914110818-PCB-07C	ND
Exterior – Side A	Brown Window Caulk at Aluminum	914110818-PCB-08A	ND
Exterior – Side B	Brown Window Caulk at Aluminum	914110818-PCB-08B	ND
Exterior – Side C	Brown Window Caulk at Aluminum	914110818-PCB-08C	ND
Room 212	Interior Brown Window Caulk	914110818-PCB-09A	ND
Library	Interior Brown Window Caulk	914110818-PCB-09B	4.2*
Room 501	Interior Brown Window Caulk	914110818-PCB-09C	3.5*
Side A Entry	Exterior Door Caulk	914110818-PCB-10A	ND
Stairs 2	Exterior Door Caulk	914110818-PCB-10B	ND
B Side	Exterior Door Caulk	914110818-PCB-10C	ND
A Side	Tan Caulk at Brick Molding	914110818-PCB-11A	ND
B Side	Tan Caulk at Brick Molding	914110818-PCB-11B	ND

Sample Location	Material Type	Sample No.	Pcb Content (Mg/Kg)
D Side	Tan Caulk at Brick Molding	914110818-PCB-11C	ND
B Side	Interior Window Caulk	914110818-PCB-12	ND
Main Entry	Door Caulk	914110818-PCB-13	ND

ND = None Detected
* Elevated Reporting Limit
Results highlighted in bold text are less than 50 mg/kg but greater than 1 mg/kg PCBs

The Premier analytical results, summarized in *Table 8* above, documented concentrations of PCBs below 50 mg/kg in the bulk material samples. Two samples of the brown interior window caulk contained reported PCB concentrations of 3.5 mg/kg and 4.2 mg/kg. These results required further evaluation via analysis of the underlying substrate to determine if the material meets the definition of an excluded PCB Product.

Additionally, recoveries of laboratory surrogate compounds associated with analyses of a few materials were reported as 0% in the attached analytical report. The materials and samples affected by this laboratory non-conformance are summarized in *Table 9* below. Fuss & O'Neill and USEPA agreed in subsequent correspondence that data associated with the below-listed materials should be deemed suspect, and verified through supplemental confirmatory analyses, in an effort to more confidently evaluate the concentration of PCBs in these samples (i.e. the "affected samples").

Table 9
Bulk Samples Exhibiting Poor Surrogate Recoveries

Sample Location and Material Type	Affected Sample Numbers
Old Gym - Sleeper Floor	914110818-PCB-02A 914110818-PCB-02B 914110818-PCB-02C
Room 114 - Black Mastic Under Floor	914110818-PCB-05B 914110818-PCB-05C
Exterior Door Caulk	914110818-PCB-10A 914110818-PCB-10B 914110818-PCB-10C
Tan Caulk at Brick Molding	914110818-PCB-11A 914110818-PCB-11B 914110818-PCB-11C
Main Entry - Door Caulk	914110818-PCB-13

In email correspondence provided to USEPA on November 9, 2011, Premier attributed the low surrogate recoveries to difficulty inherent in the Soxhlet extraction and subsequent clean-up of the affected sample matrices. According to Premier, all samples were subjected to Soxhlet extraction (USEPA Method 3540C) using hexane as the solvent. The extracts were then treated with a sulfuric acid clean up per USEPA Method 3665A. In the case of the affected samples, the sample volumes

completely dissolved into the hexane solvent and did not respond to multiple rounds of acid treatment, requiring dilutions of individual affected samples in the range of 10 to 50 times. The high level of dilution required for the affected samples led to the surrogate compounds being "diluted out." According to Premier, the raw analytical data indicated that surrogate compounds were detected in the affected samples, but at concentrations below the instrument calibration range (approximately 2%-4% recovery). Therefore, these surrogate recoveries were reported as 0%.

To address the surrogate recovery difficulties described above, and to evaluate the PCB content of the substrate underlying the brown interior window caulk, Fuss & O'Neill conducted additional PCB sampling, as described below in *Sections 6.4* and *6.5*.

6.3 Supplemental PCB Sampling

On June 11, 2012, Fuss & O'Neill representatives Mr. Dustin A. Diedricksen and Mr. Steven Hubbs, collected 11 additional samples of bulk product materials to address the laboratory quality control complications documented above (*Table 9*), as well as five additional substrate material samples to evaluate whether the initially-sampled materials exhibiting positive PCB detections (brown window caulk - *Table 8*) are Excluded PCB Products.

6.3.1 Supplemental PCB Bulk Product Sampling

On June 11, 2012, Fuss & O'Neill representatives Mr. Dustin A. Diedricksen and Mr. Steven Hubbs, re-collected two samples of each of the materials listed in *Table 9*, plus an additional duplicate sample, for a total of 11 bulk material samples. Tools utilized to collect the bulk material samples were disposable items discarded after each individual sample was collected. Each sample was placed in an individual container, labeled, and delivered to ESS using proper chain of custody. Samples were extracted by ESS using USEPA Method 3540 (Soxhlet) and analyzed for PCBs by USEPA Method 8082. Laboratory results of samples analyzed for PCBs and applicable data validation materials are included in *Appendix G*. The following table identifies the supplemental samples by location, material type, sample number, and PCB content.

Table 10
Supplemental PCB Bulk Product Sample Results

Sample Location	Material Type	Sample No.	PCB Content (Mg/Kg)
Old Gym	Sleeper Floor	914120611-03A	ND
Old Gym	Sleeper Floor	914120611-03B	ND
Room 114	Black Mastic beneath Wood Floor	914120611-04A	5.21
Room 114	Black Mastic beneath Wood Floor	914120611-04B	3.30
Side A Entry	Exterior Door Caulk	914120611-05A	ND
Stairs 2	Exterior Door Caulk (primary sample)	914120611-05B	ND

Sample Location	Material Type	Sample No.	PCB Content (Mg/Kg)
Stairs 2	Exterior Door Caulk (duplicate sample)	914120611-06	ND
A Side	Tan Caulk at Brick Molding	914120611-07A	2.06
A Side	Tan Caulk at Brick Molding	914120611-07B	3.82
Main Entry	Door Caulk (D-2 door)	914120611-08A	ND
Main Entry	Door Caulk (D-3 door)	914120611-08B	ND

ND = None Detected

The analytical results, summarized in *Table 10* above, documented two bulk materials, black mastic and tan caulk at brick molding, which contained concentrations of PCBs greater than 1.0 ppm but less than 50 ppm. These two materials should be further evaluated to determine whether they were installed prior to 1984 (thereby meeting the definition of an "Excluded PCB product"). Additionally, further sampling of adjacent material is warranted to confirm that these materials have not been contaminated by PCBs leaching from adjacent media which were themselves contaminated by a PCB Bulk Product.

6.3.2 Supplemental PCB Substrate Sampling

To evaluate whether the initially-sampled materials exhibiting positive PCB detections (*Table 8*) are Excluded PCB Products, an evaluation of adjacent substrate materials was warranted. Initially, PCB detections were reported in two of three samples of a brown caulking material observed around windows. The caulking was additionally identified as the most likely material to have the potential to experience back-leaching from an adjacent substrate, as it was in contact with porous media.

On June 11, 2012, Fuss & O'Neill representatives, Mr. Dustin A. Diedricksen and Mr. Steven Hubbs, collected samples of porous substrate in the three window systems where the suspect brown caulk was sampled previously, to verify that the adjacent substrates are not a source of higher concentrations of PCBs. The suspect caulk was observed to contact only one type of porous substrate – wood. Fuss & O'Neill collected three wood substrate samples, plus one additional duplicate wood-substrate sample. Tools utilized to collect samples were either disposable items discarded after each individual sample was collected, and/or a reusable chisel. To avoid cross contamination of samples, the chisel was decontaminated with hexane in accordance Fuss & O'Neill's Standard Operating Procedures in between samples. At the end of the sampling event, the chisel was decontaminated and a wipe sample was subsequently collected from the chisel for QA/QC purposes. The four substrate samples and one wipe sample were placed in individual containers, labeled, and delivered to ESS using proper chain of custody. Samples were extracted by ESS using USEPA Method 3540 (Soxhlet) and analyzed for PCBs by USEPA Method 8082. Refer to *Appendix G* for analysis results of samples collected on June 11, 2012 and applicable data validation materials.

Table 11
Substrate Analytical Results

Sample Location	Material Type	Sample No.	PCB Content (Mg/Kg)
Room 212	Wood Substrate	914120611-01A	ND
Library	Wood Substrate (primary sample)	914120611-01B	0.375
Library	Wood Substrate (duplicate sample)	914120611-02	0.460
Room 501	Wood Substrate	914120611-01C	1.80
Chisel Wipe	Equipment Blank	914120611-09	ND

ND = None Detected

The analytical results, summarized in *Table 11* above, documented concentrations of PCBs below 50 mg/kg in the wood substrate samples. Three samples of the wood substrate contained reported PCB concentrations between 0.375 mg/kg and 1.80 mg/kg. None of the sampled substrate materials contained concentrations of PCBs equal to or greater than 50 mg/kg. These results confirm that the substrate materials do not meet the definition of a TSCA-regulated source material. Therefore, the adjacent PCB-containing materials can be considered excluded PCB products.

6.4 PCB Assessment Conclusions

Fuss & O'Neill performed an evaluation of specific suspect building materials for the presence of PCBs. The results of this evaluation indicated that regulated concentrations of PCBs were not present in the sampled materials.

Two samples of brown, interior window caulk were reported to contain total PCB arochlor concentrations of 3.5 mg/kg and 4.2 mg/kg. Substrate analyses were performed to determine if the material meets the definition of an Excluded PCB Product. Reported PCB concentrations in the substrate samples were below 50 mg/Kg. The brown interior window caulk therefore meets the definition of an Excluded PCB Product under TCSA. Therefore, these materials would not warrant management as TSCA regulated PCB waste. However, they must be disposed of as a PCB containing material with a PCB concentration less than 50 mg/kg, at a landfill facility licensed to accept such waste.

Two bulk materials analyzed during the supplemental sampling program (black floor mastic and tan window caulk) contained PCB concentrations above 1.0 ppm but below 50.0 ppm. These two materials should be further evaluated to determine whether they were installed prior to 1984 (thereby meeting the definition of an "Excluded PCB product"). Additionally, further sampling of adjacent material is warranted to confirm that these materials have not been contaminated by PCBs leaching from adjacent media which were themselves contaminated by a PCB Bulk Product.

7 Data Verification and Usability Assessment

7.1 Data Verification

Fuss & O'Neill conducted modified Tier II data verification of the field and analytical data resulting from the assessment documented herein. Modified Tier II verification narratives, as well as modified Tier II data validation checklists, are attached to each laboratory analytical report in *Appendices B, C, E, F, and G*.

Analyses Requested

During the course of the sampling events conducted at the subject property, samples of potentially-hazardous building materials were laboratory analyzed for the following parameters:

- Asbestos by PLM
- Asbestos by TEM
- Lead by USEPA Method 6010
- TCLP lead by USEPA Methods 1311 and 6010
- PCBs by USEPA Method 8082
- PCBs by USEPA Method 8082 with Soxhlet Extraction by USEPA Method 3540

Based on a review of the proposed scope of work detailed in the *Site Specific QAPP Addendum* and QAPP Modifications, the field sampling data sheets, chains of custody, and resulting laboratory analytical reports, each of the collected samples were analyzed for the appropriate set of analytical parameters.

Sample Holding Times

According to information contained within the laboratory analytical data reports, all samples were analyzed within method-specified holding times.

Trip Blank Samples

Since no samples were collected for analysis of volatile organic compounds, no trip blanks were warranted.

Field Blank Samples

For the most part, dedicated disposable sampling equipment was used to collect samples at the site, removing the need for the collection and analysis of field/equipment blanks. On one field mobilization (supplemental PCB substrate sampling), a non-dedicated wood chisel was utilized to collect samples for analysis of PCBs. Since this reusable tool required field decontamination in between sampling locations, an equipment blank, consisting of a wipe sample for analysis of PCBs, was collected following decontamination. No PCB compounds were detected in the wipe sample at a concentration greater than the laboratory reporting limit.

Duplicate Samples

When warranted, duplicate samples were included in the sampling plan. For some matrices and analyses, multiple samples of each homogeneous material were collected in lieu of specific duplicate samples, as follows:

- Asbestos Analysis: For most materials, approximately three samples of each homogeneous building material were collected and analyzed for asbestos for quality control purposes. Therefore, specific additional duplicate samples were not analyzed for asbestos.
- Lead Waste Characterization: One duplicate composite sample was collected for TCLP lead analysis.
- Lead Paint Chip Analysis: One duplicate sample was collected for total lead analysis.
- Initial PCB Bulk Product Analysis: For most materials, approximately three samples of each homogeneous building material were collected and analyzed for PCBs for quality control purposes. Therefore, specific additional duplicate samples were not analyzed.
- Supplemental PCB Bulk Product Analysis: For most materials two samples of each homogeneous building material were collected and analyzed for PCBs for quality control purposes. However, due to the previously observed laboratory extraction and quality control difficulties, one additional duplicate sample was collected and analyzed for PCBs for quality control purposes during this assessment.
- Supplemental PCB Substrate Analysis: One duplicate sample was collected for PCB analysis.

Details regarding the primary and duplicate sample analyses and results, as well as calculated Relative Percent Differences (RPDs) of the primary/duplicate pairs are included in the data verification narratives included with each laboratory report in *Appendices B, C, E, F, and G*. For the most part, RPDs were within acceptable ranges, except where specifically noted and discussed sample heterogeneity, laboratory extraction, or quality control compliance difficulties affected the reproducibility of the data.

7.2 Detection Limits and Applicable Regulatory Criteria

The laboratory reporting and detection limits were sufficiently low enough to evaluate the resulting data for its intended purpose of comparison to applicable regulatory standards for asbestos, lead, and PCBs.

7.3 Data Usability

Based on the completed evaluation of field data as well as primary, duplicate, and other quality control laboratory analyses, the data collected as part of this assessment was usable to draw the conclusions outlined herein. While some laboratory quality control difficulties were encountered during the initial PCB bulk product analysis, selected samples were re-collected and analyzed along with additional

samples, which resulted in the acquisition of sufficient quality data to support the decisions necessary to meet the objective of the assessment as detailed herein.

Appendix A

Asbestos Inspector Licenses and Certifications

Rhode Island Department of Health

Asbestos Program

Consultants-Inspector

JONATHAN HAND

Exp. Date: 02/28/2013
License #: AAC-0798
Member of C.O.N.E.S.

Appendix B

Asbestos PLM Laboratory Analytical Results

Modified Tier II
Data Validation Narrative

Project: 20100607.A20
Site Investigation/Targeted Brownfields Assessment
Former Woonsocket Middle School

EMSL Laboratory Project Numbers:	041124572B, 041126490C
Date Samples Received at Laboratory:	September 13, 2012
Date of Review:	November 2, 2012

On September 13, 2012, EMSL Analytical, Inc. (EMSL) received 403 bulk building materials samples from Fuss & O'Neill, care of ESS Laboratory. The samples were submitted to EMSL for analysis of asbestos content using a variety of analytical methods.

Initially 354 samples were analyzed via polarized light microscopy (PLM) using procedures documented in United States Environmental Protection Agency (USEPA) Method 600/R-93/116. Additionally, based on the documented results of a previous building materials assessment conducted at the site, 40 samples were selected for confirmatory analysis via Transmission Electron Microscopy (TEM).

Analytical results were expressed in percent asbestos content, with a quantification limit of <1% for PLM and TEM analyses. The correct samples were analyzed via the appropriate requested methods. When appropriate and as requested by Fuss & O'Neill, analyses of samples comprising a sample group of the same material were stopped upon confirmation that an initial sample in the group contained asbestos. The sample descriptions shown in the analytical reports matched those documented in the corresponding field data sheets/chains of custody.

No significant laboratory non-conformances or deviations from the *Site-Specific QAPP Addendum* were noted for the asbestos samples and analyses. According to the case narratives and the *Modified Tier II Data Validation Checklist* associated with these analytical reports, analyses of batch blanks, laboratory duplicates, and laboratory control samples were performed and within acceptable quality control ranges. In summary, the asbestos data were considered usable for the purposes of quantifying asbestos content in the sampled building materials and developing a cost estimate for abatement activities.

FUSS & O'NEILL

INITIAL DATE: OCTOBER 2011
REVISION DATE: FEBRUARY 2012
REVISION: 1.0

PLM- 041124572B

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
MODIFIED TIER I COMPLETENESS CHECKLIST

	YES	NO	
1. SAMPLING AND FIELD MEASUREMENTS:			
Field measurement calibration records	☐	☐	N/A
Groundwater field measurements (if applicable)	☐	☐	↓
Soil sampling field measurements (if applicable)	☐	☐	
Sediment sampling field measurements (if applicable)	☐	☐	
Surface water sampling field measurements (if applicable)	☐	☐	
Low-flow sampling field measurements (if applicable)	☐	☐	
Documentation of field activities	☒	☐	
Sample numbering and labeling	☒	☐	
Chain-of-Custody records	☒	☐	
Trip blanks	☐	☐	N/A
Duplicate samples	☐	☐	↓
Equipment blanks	☐	☐	
Split samples (if any)	☐	☐	
2. LABORATORY MEASUREMENTS:			
Trip blanks	☐	☐	N/A
Instrument blanks	☒	☐	
Laboratory control samples	☒	☐	
Duplicates samples	☒	☐	
Equipment blanks	☐	☐	N/A
Matrix spike/matrix spike duplicates	☐	☐	↓
Analysis type	☒	☐	
Chain-of-Custody records	☒	☐	
Surrogate recoveries	☐	☐	N/A
Sample Project Narratives	☒	☐	
Split samples (if any)	☐	☐	N/A
TOTAL:	9	—	

PERCENT COMPLETE: 100 %

INITIAL DATE: OCTOBER 2011
REVISION DATE: FEBRUARY 2012
REVISION: 1.0

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

1. SAMPLING AND FIELD MEASUREMENTS:	YES	NO	COMMENTS
Field measurement calibration records			
pH - ± 0.3 pH units	☐	☐	N/A
S.C. - ± 5% of calibration solution, within? calibration range	☐	☐	
Temperature - ± 0.5 °C	☐	☐	
D.O. - ± 5% of calibration solution	☐	☐	
Groundwater field measurements (if applicable)			
Water depth measured to within 0.01 ft.?	☐	☐	
Soil sampling field measurements (if applicable)			
OVM - ± 2 ppm	☐	☐	
OVA - ± 2 ppm	☐	☐	
Sediment sampling field measurements (if applicable)			
Descriptive information recorded?	☐	☐	
Surface water sampling field measurements (if applicable)			
Water depth measured to within 0.01 ft.?	☐	☐	
Low-flow sampling field measurements (if applicable)			
S.C. - ± 10%	☐	☐	
pH - ± 0.2 pH units	☐	☐	
Temperature - ± 10%	☐	☐	
Turbidity - ±5 NTU	☐	☐	
Documentation of field activities			
Site-specific information documented in field notebook?	☒	☐	
Field data sheets completed?	☒	☐	
Sample numbering and labeling			
Sample numbering conforms to sample I.D. system identified in QAPP?	☐	☒	numbering system specific to building meter
Chain-of-Custody records			
Chain-of-Custody forms completed?	☒	☐	field data sheets served as COC

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST
(Continued)

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

	YES	NO	COMMENTS
Trip blanks			
Trip blanks submitted, one per day?	☐	☐	N/A
Any compounds detected in trip blanks?	☐	☐	
Duplicate samples			
Field duplicates performed, 1/20 samples?	☐	☐	
Duplicates performed on 10% of samples screened for explosives?	☐	☐	
Is percent difference within 30% for all field parameters?	☐	☐	
Equipment blanks			
Equipment blanks submitted, one per sampling day?	☐	☐	
Any compounds detected in equipment blank?	☐	☐	
Split samples (if any)			
Split samples collected?	☐	☐	
Is percent difference within 30% for split samples?	☐	☐	↓

2. LABORATORY MEASUREMENTS:

Trip blanks			
Trip blanks submitted, one per day?	☐	☐	N/A
Any compounds detected in trip blanks?	☐	☐	↓
Instrument blanks**	☒	☐	
Laboratory control samples**	☒	☐	
Duplicates samples**	☒	☐	
Equipment blanks**	☐	☐	N/A
Matrix spike/matrix spike duplicates**	☐	☐	↓
Analysis type	☒	☐	
Chain-of-Custody records	☒	☐	
Surrogate recoveries**	☐	☐	N/A
Sample Project Narratives	☒	☐	
Split samples (if any)**	☐	☐	N/A
Most recent EPA WP-PE sample results**	☐	☐	↓

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-0235

September 9, 2011

Pat Dowling
Fuss & O'Neill EnviroScience, LLC
146 Hartford Road
Manchester, CT 06040

PDowling@fando.com

Re: **Narrative EMSL Order ID 041124572**

Dear Pat:

On September 13, 2011 EMSL Analytical, Inc.(Woburn, MA) received 403 bulk samples for 20100607.A20/RIDEM - FORMER WOONSOCKET MIDDLE SCHOOL project . These samples were brought in by client carrier from Fuss & O'Neill EnviroScience for bulk asbestos content. At that point the Woburn lab manager contacted the EMSL Corporate Asbestos Lab in Cinnaminson, NJ to see if they could accept the samples based on their quantity and time-frame for results. The EMSL NJ lab accepted these samples and received them on September 14, 2011. All samples were logged in following normal lab procedures and were received in acceptable condition. All 403 samples were present and in acceptable condition.

PLM EPA 600/R-93/11 –116

The bulk samples were analyzed via polarized light microscopy (PLM) using the procedures from the EPA 600/R-93/116 method. All data was reported on a %asbestos basis with a limit of quantification for this method of <1%. Positive stops as well as samples layers were established by the client.

Daily lab blanks, scope alignments, inter and intra QC analysis were performed in accordance with EMSL's QC SOP. All QC data was deemed as acceptable..

Stephen Siegel, CIH
Asbestos Lab Manager
EMSL Cinnaminson, NJ

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (800) 220-3675 Fax: (856) 786-5974 Email: cinnasblab@EMSL.com

Attn: **Pat Dowling**
Fuss & O'Neill EnviroScience, LLC
146 Hartford Road
Manchester, CT 06040

Fax: (888) 838-1160 Phone: (860) 646-2469

Project: **20100607.A20/RIDEM - FORMER WOONSOCKET MIDDLE SCHOOL**

Customer ID: ENVI54
Customer PO:
Received: 09/14/11 9:25 AM
EMSL Order: 041124572

EMSL Proj:
Analysis Date: 9/18/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
818DD-01A *041124572-0001*	STAIR 7 (LANDING & STAIR TREAD) - BROWN (THICK) VINYL 12X12 FLOORING W/ DIAMOND PATTERN	Brown Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
818DD-01B *041124572-0002*	STAIR 9 (LANDING & STAIR TREAD) - BROWN (THICK) VINYL 12X12 FLOORING W/ DIAMOND PATTERN	Brown Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
818DD-02A *041124572-0003*	STAIR 7 (LANDING & STAIR TREAD) - TAN ADHESIVE ASSOCIATED W/ BROWN (THICK) VINYL 12X12	Tan Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**

Initial report from 09/19/2011 09:55:54

Analyst(s)

Christine Hatter (11) *Garret Vliet (45)* *Laura Torres (38*
Erica Valent (66) *Johnny Yu (46)* *Melanie Koenig*

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (800) 220-3675 Fax: (856) 786-5974 Email: cinnasblab@EMSL.com

Attn: **Pat Dowling**
Fuss & O'Neill EnviroScience, LLC
146 Hartford Road
Manchester, CT 06040

Fax: (888) 838-1160 Phone: (860) 646-2469

Project: **20100607.A20/RIDEM - FORMER WOONSOCKET MIDDLE SCHOOL**

Customer ID: ENVI54
Customer PO:
Received: 09/14/11 9:25 AM
EMSL Order: 041124572

EMSL Proj:
Analysis Date: 9/18/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
818DD-02B *041124572-0004*	STAIR 9 (LANDING & STAIR TREAD) - TAN ADHESIVE ASSOCIATED W/ BROWN (THICK) VINYL 12X12	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
818DD-05A *041124572-0005*	ROOM 101 - WHITE MOTTLED W/ BROWN 12X12 FLOOR TILE	Tan Non-Fibrous Homogeneous		97% Non-fibrous (other)	**3% Chrysotile**
818DD-05B *041124572-0006*	ROOM 101 - WHITE MOTTLED W/ BROWN 12X12 FLOOR TILE				**Stop Positive (Not Analyzed)**
818DD-07A *041124572-0007*	ROOM 101 - SUBFLOOR/SLEEPER FLOOR TAR FILLER (MASTIC)	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
818DD-07B *041124572-0008*	ROOM 101 - SUBFLOOR/SLEEPER FLOOR TAR FILLER (MASTIC)	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

Initial report from 09/19/2011 09:55:54

Analyst(s)

Christine Hatter (11) *Garret Vliet (45)* *Laura Torres (38*
Erica Valent (66) *Johnny Yu (46)* *Melanie Koenig*

Stephen Siegel, CIH, Laboratory Manager
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Attn: **Pat Dowling**
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146 Hartford Road
Manchester, CT 06040

Fax: (888) 838-1160 Phone: (860) 646-2469

Project: **20100607.A20/RIDEM - FORMER WOONSOCKET MIDDLE SCHOOL**

Customer ID: ENVI54
Customer PO:
Received: 09/14/11 9:25 AM
EMSL Order: 041124572

EMSL Proj:
Analysis Date: 9/18/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
818DD-08A *041124572-0009*	ROOM 105 - WHITE W/ BROWN STREAKS 9X9 FLOOR TILE	White Non-Fibrous Homogeneous		97%	Non-fibrous (other)	**3% Chrysotile**
818DD-08B *041124572-0010*	ROOM 105 - WHITE W/ BROWN STREAKS 9X9 FLOOR TILE					**Stop Positive (Not Analyzed)**
818DD-09A *041124572-0011*	ROOM 105 - 4" LIGHT BROWN VINYL BASEBOARD	Brown Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
818DD-10A *041124572-0012*	ROOM 105 - TAN MASTIC A/W 4" LIGHT BROWN VBB	Tan Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
818DD-10B *041124572-0013*	ROOM 105 - TAN MASTIC A/W 4" LIGHT BROWN VBB	Tan Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**

Initial report from 09/19/2011 09:55:54

Analyst(s)

Christine Hatter (11) *Garret Vliet (45)* *Laura Torres (38* *Erica Valent (66)* *Johnny Yu (46)* *Melanie Koenig*

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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Project: **20100607.A20/RIDEM - FORMER WOONSOCKET MIDDLE SCHOOL**

Customer ID: ENVI54
Customer PO:
Received: 09/14/11 9:25 AM
EMSL Order: 041124572

EMSL Proj:
Analysis Date: 9/18/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
818DD-13A *041124572-0014*	LIBRARY (INTERIOR) - BROWN WINDOW CAULK @ ALUMINUM (PLIABLE)	Brown Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
818DD-13B *041124572-0015*	ROOM 260 (EXTERIOR) - ALUMINUM FRAMES (TYPICAL)	Brown Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
818DD-14A *041124572-0016*	TYPICAL WINDOWS - TAN CAULKING AT (WOOD) BRICK MOLDING CONCEALED BENEATH ALUMINUM WINDOW FRAMES	Non-Fibrous Heterogeneous		90%	Non-fibrous (other)	**10% Chrysotile**

Initial report from 09/19/2011 09:55:54

Analyst(s)

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Erica Valent (66) *Johnny Yu (46)* *Melanie Koenig*

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
818DD-14B *041124572-0017*	TYPICAL WINDOWS - TAN CAULKING AT (WOOD) BRICK MOLDING CONCEALED BENEATH ALUMINUM WINDOW FRAMES							**Stop Positive (Not Analyzed)**
818DD-14C *041124572-0018*	TYPICAL EXTERIOR DOORS - TAN CAULKING AT DOOR FRAMES (EXTERIOR)							**Stop Positive (Not Analyzed)**
818DD-16A *041124572-0019*	ROOM 105 - BLACK SINK UNDERCOATING	Black Non-Fibrous Homogeneous			85%	Non-fibrous (other)	**15%**	**Chrysotile**
818DD-17A *041124572-0020*	ROOM 203 - 2" BROWN VINYL BASEBOARD	Brown Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
818DD-18A *041124572-0021*	ROOM 203 - MASTIC A/W 2" BROWN VINYL BASEBOARD	Brown Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**

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Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
818DD-18B *041124572-0022*	ROOM 212 - MASTIC A/W 2" BROWN VINYL BASEBOARD	Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
818DD-19A *041124572-0023*	ROOM 211 - MINT GREEN W/ CREAM & GREEN SPLOTCHES 9X9 FLOOR TILE	Green Non-Fibrous Homogeneous			97% Non-fibrous (other)	**3% Chrysotile**
818DD-20A *041124572-0024*	ROOM 203 - GREY & WHITE WASH OUT 9X9 FLOOR TILE	Tan Non-Fibrous Homogeneous			98% Non-fibrous (other)	**2% Chrysotile**
818DD-21A *041124572-0025*	ROOM 204 - GREYISH GREEN W/ WHITE & GREY STREAKS 9X9 FLOOR TILE	Tan Non-Fibrous Homogeneous			98% Non-fibrous (other)	**2% Chrysotile**
818DD-22A *041124572-0026*	ROOM 205/205A - BROWN, TAN & GREEN SWIRL 9X9 FT	Brown Non-Fibrous Homogeneous	20% Cellulose		80% Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
818DD-23A *041124572-0027*	ROOM 205/205A - TAN & BROWN SWIRL 9X9 FT	Tan Non-Fibrous Homogeneous	20%	Cellulose	80%	Non-fibrous (other)	**None Detected**
818DD-24A *041124572-0028*	OFFICE AREA (205/205A) - BLACK PAPER MASTIC ASSOCIATED WITH 9X9 FLOOR TILE	Black Fibrous Homogeneous	40%	Cellulose	60%	Non-fibrous (other)	**None Detected**
818DD-24B *041124572-0029*	ROOM 455 - BLACK PAPER MASTIC ASSOCIATED WITH 9X9 FLOOR TILE	Black Fibrous Homogeneous	40%	Cellulose	60%	Non-fibrous (other)	**None Detected**
818DD-24C *041124572-0030*	ROOM 558 - BLACK PAPER MASTIC ASSOCIATED WITH 9X9 FLOOR TILE	Black Fibrous Homogeneous	40%	Cellulose	60%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
818DD-25A *041124572-0031*	ROOM 202A - WHITE W/ TAN & GREY SPECKS 9X9 FLOOR TILE	Tan Non-Fibrous Homogeneous		95%	Non-fibrous (other)	**5% Chrysotile**
818DD-26A *041124572-0032*	ROOM 207A- RAISED FLOOR - OFF WHITE W/ CREAM & BROWN STREAKS 12X12 FLOOR TILE	Tan Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
818DD-27A *041124572-0033*	ROOMS 207A/B - BEIGE W/ CREAM & BROWN STREAKS 12X12 FT	Tan Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
818DD-28A *041124572-0034*	ROOMS 207A/B - BLUE 9X9 FLOOR TILE UNDERNEATH PLYWOOD UNDERLAYMENT	Blue Non-Fibrous Homogeneous		98%	Non-fibrous (other)	**2% Chrysotile**

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
818DD-29A *041124572-0035*	ROOM 211 - BEIGE W/ WHITE & BROWN SPLOTCHES 9X9 FT	Tan Non-Fibrous Homogeneous		97% Non-fibrous (other)	**3% Chrysotile**
818DD-30A *041124572-0036*	ROOM 213 - LIGHT BROWN W/ CREAM & BROWN SPLOTCHES 9X9 FLOOR TILE	Tan Non-Fibrous Homogeneous		98% Non-fibrous (other)	**2% Chrysotile**
818DD-31A *041124572-0037*	ROOM 213 - DARK BROWN W/ CREAM & LIGHT BROWN SPLOTCHES 9X9 FLOOR TILE	Brown Non-Fibrous Homogeneous		98% Non-fibrous (other)	**2% Chrysotile**
818DD-32A *041124572-0038*	ROOM 220 (OFFICE) - GREEN MOTTLED 12X12 FT	Tan Non-Fibrous Homogeneous		95% Non-fibrous (other)	**5% Chrysotile**
818DD-33A *041124572-0039*	ROOM 216 - LIGHT BLUE W/ WHITE STREAKS 9X9 FLOOR TILE	Blue Non-Fibrous Homogeneous		98% Non-fibrous (other)	**2% Chrysotile**

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
818DD-34A *041124572-0040*	ROOM 214A/B - GREY MOTTLED 12X12 FLOOR TILE	Tan Non-Fibrous Homogeneous	Suggest TEM	100% Non-fibrous (other)	**None Detected**
818DD-34B *041124572-0041*	ROOM 557 - GREY MOTTLED 12X12 FLOOR TILE	Gray Non-Fibrous Homogeneous	Suiggest TEM	100% Non-fibrous (other)	**None Detected**
818DD-35A *041124572-0042*	ROOM 209A/B - BROWN & TAN MOTTLED 21X12 FT	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
818DD-36A *041124572-0043*	ROOM 218 - BROWN & TAN WASH OUT 9X9 FT	Tan Non-Fibrous Homogeneous		95% Non-fibrous (other)	**5% Chrysotile**
818DD-37A *041124572-0044*	ROOM 552 - BLUISH GREEN 12X12 FT	Green Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
818DD-38A *041124572-0045*	ROOM 550 - TAN/BROWN VINYL FLOOR TILE UNDERNEATH PLYWOOD UNDERLAYMENT	Tan Non-Fibrous Homogeneous		98%	Non-fibrous (other)	**2% Chrysotile**
818DD-38C *041124572-0046*	ROOM 301 - TAN/BROWN VINYL FLOOR TILE UNDERNEATH PLYWOOD UNDERLAYMENT					**Stop Positive (Not Analyzed)**
818DD-39A *041124572-0047*	ROOM 553 - BROWN, TAN & WHITE MOTTLED 12X12 FLOOR TILE	Tan Non-Fibrous Homogeneous		98%	Non-fibrous (other)	**2% Chrysotile**
818DD-40A *041124572-0048*	ROOM 550 - LIGHT PURPLE W/ PURPLE & WHITE STREAKS 12X12 FLOOR TILE	Purple Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
818DD-41A *041124572-0049*	HALLWAY O/S #554-550 - BROWN & TAN MOTTLED 12X12 FLOOR TILE	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
818DD-42A *041124572-0050*	HALLWAY O/S #554-550 - BLACK W/ WHITE & GREEN STREAKS 9X9 FLOOR TILE	Black Non-Fibrous Homogeneous		96% Non-fibrous (other)	**4% Chrysotile**
818DD-44A *041124572-0051*	ROOM 501 - REDDISH PINK W/ WHITE SPLOTCHES 12X12 FLOOR TILE	Pink Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
818DD-46A *041124572-0052*	ROOM 502A - PEA GREEN W/ DARK GREEN & WHOTE SPLOTCHES 12X12 FT	Green Non-Fibrous Homogeneous		94% Non-fibrous (other)	**6% Chrysotile**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
818DD-47A *041124572-0053*	ROOM 502 (STAIR & CLOSET) - BROWN, BEIGE & TAN MOTTLED 12X12 FLOOR TILE	Brown Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
			suggest tem				
76DD-48A *041124572-0054*	HALL O/S FORMER HS OFFICE - RED MOTTLED 12X12 FLOOR TILE (TOP LAYER)	Purple Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
76DD-49A *041124572-0055*	HALL O/S FORMER HS OFFICE - GREY/YELLOW MASTIC A/W RED MOTTLED 12X12 FT	Gray/Yellow Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
76DD-49B *041124572-0056*	HALL O/S FORMER HS OFFICE - GREY/YELLOW MASTIC A/W RED MOTTLED 12X12 FT	Brown/Tan Fibrous Heterogeneous	4%	Cellulose	96%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
76DD-50A *041124572-0057*	HALL O/S FORMER HS OFFICE - GREY VINYL FLOOR TILE UNDERNEATH PLYWOOD UNDERLAYMENT	Gray Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
76DD-51A *041124572-0058*	HALL O/S FORMER HS OFFICE - BLUE VINYL FLOOR TILE UNDERNEATH PLYWOOD UNDERLAYMENT	Blue Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
		suggest tem					
76DD-52A *041124572-0059*	AUDITORIUM - PINKISH ORANGE MOTTLED 12X12 FLOOR TILE	Peach Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
76DD-54A *041124572-0060*	LIBRARY - 1X1 PEGBOARD-TYPE CEILING TILE (SPLINE)	Brown/White Fibrous Heterogeneous	85%	Cellulose	15%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
76DD-55A *041124572-0061*	BOOK STORAGE RM (OFF LIBRARY) - MULIT-DOT 2X4 CEILING TILE	Gray/White Fibrous Heterogeneous	40% 30%	Cellulose Min. Wool	30%	Non-fibrous (other)	**None Detected**
76DD-56A *041124572-0062*	LIBRARY BOOK STORAGE ROOM - BEIGE W/ WHITE & BROWN 9X9 FT	Tan Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
76DD-57A *041124572-0063*	FORMER HS MAIN OFFICE - BROWNISH GREY W/ WHITE & BROWN SPECKS 9X9 FLOOR TILE (DOMINANT TYPE)	Gray Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
76DD-58A *041124572-0064*	FORMER HS MAIN OFFICE - YELLOW CARPET GLUE	Yellow Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
76DD-58B *041124572-0065*	LIBRARY - YELLOW CARPET GLUE	Tan Non-Fibrous Heterogeneous	2%	Cellulose	98%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
76DD-59A *041124572-0066*	FORMER HS MAIN OFFICE - WHITE W/ BROWN SPLOTCHES 9X9 FLOOR TILE	Beige Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
76DD-61A *041124572-0067*	LIBRARY - GREEN 9X9 FLOOR TILE	Green Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
76DD-66A *041124572-0068*	LIBRARY ANNEXE - GREY VINYL FLOOR TILE	Gray Non-Fibrous Heterogeneous			92% Non-fibrous (other)	**8% Chrysotile**
76DD-67A *041124572-0069*	ROOM 353 - FISSURED 2X4 WALL PANEL	Brown/White Fibrous Heterogeneous	85% Cellulose		15% Non-fibrous (other)	**None Detected**
76DD-68A *041124572-0070*	ROOM 356A-COMP LAB OFFICE - FISSURE & DOT 2X4 CEILING TILE	Gray/White Fibrous Heterogeneous	40% Cellulose 30% Min. Wool		30% Non-fibrous (other)	**None Detected**
76DD-68B *041124572-0071*	ROOM 455 - FISSURE & DOT 2X4 CEILING TILE	Gray/White Fibrous Heterogeneous	40% Cellulose 30% Min. Wool		30% Non-fibrous (other)	**None Detected**

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Analyst(s)

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Erica Valent (66) *Johnny Yu (46)* *Melanie Koenig*

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Fax: (888) 838-1160 Phone: (860) 646-2469

Project: **20100607.A20/RIDEM - FORMER WOONSOCKET MIDDLE SCHOOL**

Customer ID: ENVI54
Customer PO:
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EMSL Order: 041124572

EMSL Proj:
Analysis Date: 9/18/2011

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
76DD-69A *041124572-0072*	CORNER BATHROOM HS OFFICE HALL - WHITE 1X1 CEILING TILE	Brown/White Fibrous Heterogeneous	90%	Cellulose	10%	Non-fibrous (other)	**None Detected**
76DD-70A *041124572-0073*	ROOMS 350-353 - 4" SHINY BLACK VINYL BASEBOARD	Gray/Black Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
76DD-71A *041124572-0074*	ROOMS 350-353 - BROWN MASTIC A/W 4" SHINY BLACK VBB	Brown Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
76DD-71B *041124572-0075*	ROOMS 350-353 - BROWN MASTIC A/W 4" SHINY BLACK VBB	Brown Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
76DD-72A *041124572-0076*	CORNER BATHROOM HS OFFICE HALL - GREY W/ PINK & GREEN SPLOTCHES 9X9 FLOOR TILE	Gray/Black Fibrous Heterogeneous	25%	Cellulose	70%	Non-fibrous (other)	**5% Chrysotile**

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
76DD-73A *041124572-0077*	ROOMS 350-353 - TAN W/ WHITE & BROWN SPLOTCHES 12X12 FT (CHECKERED)	Tan Non-Fibrous Heterogeneous		95% Non-fibrous (other)	**5% Chrysotile**
76DD-74A *041124572-0078*	ROOMS 350-353 - BROWN W/ DARK BROWN & WHITE SPLOTCHES 12X12 FT (CHECKERED)	Brown Non-Fibrous Heterogeneous		96% Non-fibrous (other)	**4% Chrysotile**
76DD-75A *041124572-0079*	ROOMS 350-353 - GREEN W/ WHITE SPLOTCHES 12X12 (CHECKERED)	Green Non-Fibrous Heterogeneous		95% Non-fibrous (other)	**5% Chrysotile**
76DD-75B *041124572-0080*	ROOMS 350-353 - GREEN W/ WHITE SPLOTCHES 12X12 (CHECKERED)				**Stop Positive (Not Analyzed)**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
76DD-76A *041124572-0081*	ROOMS 350-353 - TAN W/ WHITE & BROWN SPLOTCHES 12X12 (CHECKERED)	Gray Non-Fibrous Heterogeneous		92% Non-fibrous (other)		**8% Chrysotile**
76DD-76B *041124572-0082*	ROOMS 350-353 - TAN W/ WHITE & BROWN SPLOTCHES 12X12 (CHECKERED)					**Stop Positive (Not Analyzed)**
76DD-77A *041124572-0083*	ROOM 356 - LIGHT BROWN W/ WHITE & BROWN SPLOTCHES 12X12 (CHECKERED)	Brown Non-Fibrous Heterogeneous		92% Non-fibrous (other)		**8% Chrysotile**

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			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
76DD-77B *041124572-0084*	ROOM 356 - LIGHT BROWN W/ WHITE & BROWN SPLOTCHES 12X12 (CHECKERED)						**Stop Positive (Not Analyzed)**	
76DD-78A *041124572-0085*	ROOM 356 - BROWN W/ WHITE & DARK BROWN SPL 12X12 (CHECK)	Brown Non-Fibrous Heterogeneous			95%	Non-fibrous (other)	**5%**	**Chrysotile**
76DD-78B *041124572-0086*	ROOM 356 - BROWN W/ WHITE & DARK BROWN SPL 12X12 (CHECK)						**Stop Positive (Not Analyzed)**	
76DD-79A *041124572-0087*	ROOMS 351 & 352 - GREY W/ WHITE SPLOTCHES 12X12 (CHECK)	Gray Non-Fibrous Heterogeneous			95%	Non-fibrous (other)	**5%**	**Chrysotile**

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
76DD-79B *041124572-0088*	ROOMS 351 & 352 - GREY W/ WHITE SPLOTCHES 12X12 (CHECK)					**Stop Positive (Not Analyzed)**
76DD-80A *041124572-0089*	ROOMS 351 & 352 - DARK GREY W/ WHITE STREAKS 12X12 9CHECK)	Gray Non-Fibrous Heterogeneous		95%	Non-fibrous (other)	**5% Chrysotile**
76DD-80B *041124572-0090*	ROOMS 351 & 352 - DARK GREY W/ WHITE STREAKS 12X12 9CHECK)					**Stop Positive (Not Analyzed)**
76DD-82A *041124572-0091*	ROOMS 351 & 352 - TAN MASTIC A/W TAN & WHITE MOTTLED 12X12 PATCH	Tan Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
76DD-82B *041124572-0092*	ROOMS 351 & 352 - TAN MASTIC A/W TAN & WHITE MOTTLED 12X12 PATCH	Tan Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
76DD-83A *041124572-0093*	CORNER BATHROOM HS MAIN OFFICE HALL - 4" THICK BLACK VINYL BASEBOARD	Black Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
76DD-83B *041124572-0094*	CORNER BATHROOM HS MAIN OFFICE HALL - 4" THICK BLACK VINYL BASEBOARD	Black Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
76DD-84A *041124572-0095*	CORNER BATHROOM HS MAIN OFFICE HALL - MASTIC A/W 4" BLACK VINYL BASEBOARD (THICK)	Yellow Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
76DD-84B *041124572-0096*	CORNER BATHROOM HS MAIN OFFICE HALL - MASTIC A/W 4" BLACK VINYL BASEBOARD (THICK)	Tan Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
76DD-85A *041124572-0097*	ROOM 317 - DRYWALL PARTITION WALLS	Brown/White Fibrous Heterogeneous	45%	Cellulose	55%	Non-fibrous (other)	**None Detected**
76DD-85B *041124572-0098*	ROOM 317 - DRYWALL PARTITION WALLS	Brown/White Fibrous Heterogeneous	70%	Cellulose	30%	Non-fibrous (other)	**None Detected**
76DD-86A *041124572-0099*	ROOM 317 - JOINT COMPOUND	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
76DD-86B *041124572-0100*	ROOM 317 - JOINT COMPOUND	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
76DD-87A *041124572-0101*	ROOM 317-PARTITIONED OFFICES - ORANGE, BROWN & TAN MOTTLED 12X12 FT	Brown Non-Fibrous Heterogeneous			95%	Non-fibrous (other)	**5% Chrysotile**
76DD-87B *041124572-0102*	ROOM 317-PARTITIONED OFFICES - ORANGE, BROWN & TAN MOTTLED 12X12 FT						**Stop Positive (Not Analyzed)**
76DD-88A *041124572-0103*	NEW GYM - TECTUM CEILING PANELS	Brown/Gray/White Fibrous Heterogeneous	70%	Cellulose	30%	Non-fibrous (other)	**None Detected**
76DD-88B *041124572-0104*	NEW GYM - TECTUM CEILING PANELS	Brown/White Fibrous Heterogeneous	85%	Cellulose	15%	Non-fibrous (other)	**None Detected**
77DD-89A *041124572-0105*	CAFETERIA - YELLOW MASTIC A/W 12X12 FT	Yellow Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
77DD-89B *041124572-0106*	CAFETERIA - YELLOW MASTIC A/W 12X12 FT	Yellow Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
77DD-90A *041124572-0107*	CAFETERIA (MAIN OFFICE HALL) - RED MOTTLED 12X12 FLOOR TILE	Red Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
		suggest tem					
77DD-90B *041124572-0108*	AUDITORIUM (MAIN OFFICE HALL) - RED MOTTLED 12X12 FLOOR TILE	Red Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
77DD-91A *041124572-0109*	AUDITORIUM - 1X1 PEGBOARD (LARGE HOLE) CEILING TILE	Brown/White Fibrous Heterogeneous	80%	Cellulose	20%	Non-fibrous (other)	**None Detected**
77DD-91B *041124572-0110*	AUDITORIUM - 1X1 PEGBOARD (LARGE HOLE) CEILING TILE	Brown/White Fibrous Heterogeneous	80%	Cellulose	20%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
77DD-91C *041124572-0111*	AUDITORIUM - 1X1 PEGBOARD (LARGE HOLE) CEILING TILE	Brown/White Fibrous Heterogeneous	95%	Cellulose	5%	Non-fibrous (other)	**None Detected**
77DD-92A *041124572-0112*	PROJECTOR BOOTH - TRANSITE PANELS	Gray/White Fibrous Heterogeneous			70%	Non-fibrous (other)	**30% Chrysotile**
77DD-92B *041124572-0113*	PROJECTOR BOOTH - TRANSITE PANELS						**Stop Positive (Not Analyzed)**
77DD-92C *041124572-0114*	PROJECTOR BOOTH - TRANSITE PANELS						**Stop Positive (Not Analyzed)**
77DD-93A *041124572-0115*	STAGE (AUDITORIUM) - BLACK FLOORING PAPER	Brown/Black Non-Fibrous Heterogeneous	50%	Cellulose	50%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
77DD-93B *041124572-0116*	STAGE (AUDITORIUM) - BLACK FLOORING PAPER	Brown/Black Non-Fibrous Heterogeneous	50%	Cellulose	50%	Non-fibrous (other)	**None Detected**
77DD-93C *041124572-0117*	STAGE (AUDITORIUM) - BLACK FLOORING PAPER	Brown/Black Fibrous Heterogeneous	70%	Cellulose	30%	Non-fibrous (other)	**None Detected**
77DD-94A *041124572-0118*	LEFT PRACTICE AREA OFF STAGE - TEXTURED CEILING SKIM COAT	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
77DD-94B *041124572-0119*	LEFT PRACTICE AREA OFF STAGE - TEXTURED CEILING SKIM COAT	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
77DD-94C *041124572-0120*	LEFT PRACTICE AREA OFF STAGE - TEXTURED CEILING SKIM COAT	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
77DD-95A *041124572-0121*	NEW GYM - BROWN FLOORING PAPER	Brown Fibrous Heterogeneous	95%	Cellulose	5%	Non-fibrous (other)	**None Detected**
77DD-95B *041124572-0122*	NEW GYM - BROWN FLOORING PAPER	Brown Fibrous Heterogeneous	95%	Cellulose	5%	Non-fibrous (other)	**None Detected**
77DD-96A *041124572-0123*	NEW GYM - THICK BROWN BASECOVE	Brown Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
77DD-96B *041124572-0124*	NEW GYM - THICK BROWN BASECOVE	Brown Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

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Project: **20100607.A20/RIDEM - FORMER WOONSOCKET MIDDLE SCHOOL**

Customer ID: ENVI54
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EMSL Proj:
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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
77DD-97A *041124572-0125*	NEW GYM - TAN/YELLOW MASTIC (THICK) A/W THICK BROWN BASECOVE	Yellow Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
77DD-97B *041124572-0126*	NEW GYM - TAN/YELLOW MASTIC (THICK) A/W THICK BROWN BASECOVE	Yellow Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
77DD-97C *041124572-0127*	NEW GYM - TAN/YELLOW MASTIC (THICK) A/W THICK BROWN BASECOVE	Yellow Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
77DD-98A *041124572-0128*	CAFETERIA - BUMPY 2X2 CEILING TILE (WHITE)	Gray Fibrous Heterogeneous	90%	Min. Wool	10%	Non-fibrous (other)	**None Detected**
77DD-98B *041124572-0129*	CAFETERIA - BUMPY 2X2 CEILING TILE (WHITE)	Gray Fibrous Heterogeneous	60%	Min. Wool	40%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
77DD-99A *041124572-0130*	CAFETERIA - 4" BLUE VINYL BASEBOARD	Blue Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
77DD-100A *041124572-0131*	CAFETERIA - WHITE MASTIC A/W 4" BLUE VINYL BASEBOARD	White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
77DD-100B *041124572-0132*	CAFETERIA - WHITE MASTIC A/W 4" BLUE VINYL BASEBOARD	White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
77DD-100C *041124572-0133*	CAFETERIA - WHITE MASTIC A/W 4" BLUE VINYL BASEBOARD	White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
77DD-101A *041124572-0134*	LEFT STAGE - DOTTED 2X4 CEILING TILE	Gray/White Fibrous Heterogeneous	40% 30%	Cellulose Min. Wool	30% Non-fibrous (other)	**None Detected**
77DD-101B *041124572-0135*	LEFT STAGE - DOTTED 2X4 CEILING TILE	Gray/White Fibrous Heterogeneous	40% 30%	Cellulose Min. Wool	30% Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
77DD-101C *041124572-0136*	LEFT STAGE - DOTTED 2X4 CEILING TILE	Gray/White Fibrous Heterogeneous	40% 30%	Cellulose Glass	30%	Non-fibrous (other)	**None Detected**
77DD-102A *041124572-0137*	NEW GYM LOCKER ROOM (BOYS) - PAPER COATING TO 1X1 FIBERGLASS CEILING TILE	Brown/Tan Fibrous Heterogeneous	80%	Glass	20%	Non-fibrous (other)	**None Detected**
77DD-102B *041124572-0138*	NEW GYM LOCKER ROOM (BOYS) - PAPER COATING TO 1X1 FIBERGLASS CEILING TILE	Brown/Tan Fibrous Heterogeneous	80%	Glass	20%	Non-fibrous (other)	**None Detected**
77DD-102C *041124572-0139*	ROOM 455 - PAPER COATING TO 1X1 FIBERGLASS CEILING TILE	White/Yellow Fibrous Heterogeneous	75%	Min. Wool	25%	Non-fibrous (other)	**None Detected**
77DD-103A *041124572-0140*	CAFETERIA - DRYWALL	Gray/White Fibrous Heterogeneous	55%	Cellulose	45%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
77DD-103B *041124572-0141*	CAFETERIA - DRYWALL	Gray/White Fibrous Heterogeneous	40%	Cellulose	60%	Non-fibrous (other)	**None Detected**
77DD-103C *041124572-0142*	CAFETERIA - DRYWALL	Gray/White Fibrous Heterogeneous	55%	Cellulose	45%	Non-fibrous (other)	**None Detected**
77DD-104A *041124572-0143*	CAFETERIA - JOINT COMPOUND	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
77DD-104B *041124572-0144*	CAFETERIA - JOINT COMPOUND	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
77DD-104C *041124572-0145*	CAFETERIA - JOINT COMPOUND	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
711DD-105A *041124572-0146*	CLASSROOM WING TYPICAL BATHROOMS (#407) - WHITE DRYWALL 2X4 CEILING TILE	Tan/White Fibrous Homogeneous	18% 2%	Cellulose Glass	80%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
711DD-105B *041124572-0147*	CLASSROOM WING TYPICAL BATHROOMS (#407) - WHITE DRYWALL 2X4 CEILING TILE	Tan/White Fibrous Homogeneous	8% 2%	Cellulose Glass	90%	Non-fibrous (other)	**None Detected**
711DD-105C *041124572-0148*	CLASSROOM WING TYPICAL BATHROOMS (#407) - WHITE DRYWALL 2X4 CEILING TILE	Tan/White Fibrous Homogeneous	12% 3%	Cellulose Glass	85%	Non-fibrous (other)	**None Detected**
711DD-106A *041124572-0149*	ROOM 405 - MAROON W/ BLACK & WHITE SPLOTCHES 12X12 FLOOR TILE	Violet Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
711DD-106B *041124572-0150*	ROOM 405 - YELLOW MASTIC	Violet Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
711DD-107A *041124572-0151*	ROOM 405 - ORANGE & TAN MOTTLED 12X12 FLOOR TILE (BOTTOM LAYER)(BLACK)	Tan/Various/Orange Non-Fibrous Homogeneous		98%	Non-fibrous (other)	**2% Chrysotile**
711DD-107B *041124572-0152*	ROOM 405 - ORANGE & TAN MOTTLED 12X12 FLOOR TILE (BOTTOM LAYER)(BLACK)					**Stop Positive (Not Analyzed)**
711DD-108A *041124572-0153*	ROOM 451 - GREY WITH DARK GREY & WHITE SPLOTCHES 12X12 FLOOR TILE	Gray Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
		Suggest TEM.				
711DD-108B *041124572-0154*	ROOM 451 - GREY WITH DARK GREY & WHITE SPLOTCHES 12X12 FLOOR TILE	Gray Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
		suggest tem				

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
711DD-109A *041124572-0155*	ROOM 459 - SMOOTH WHITE 1X1 CEILING TILE	Tan/White Fibrous Homogeneous	90%	Cellulose	10%	Non-fibrous (other)	**None Detected**
711DD-109B *041124572-0156*	ROOM 461 - SMOOTH WHITE 1X1 CEILING TILE	Tan/White Fibrous Homogeneous	95%	Cellulose	5%	Non-fibrous (other)	**None Detected**
711DD-110A *041124572-0157*	ROOM 462 - BROWN CORKBOARD MASTIC	Brown/Tan Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
711DD-110B *041124572-0158*	ROOM 462 - BROWN CORKBOARD MASTIC	Brown/Tan Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
711DD-111A *041124572-0159*	ROOM 459 - PAPER BACKING ACCOCIATED WITH FIBERGLASS BATT INSULATION	Tan/Black Fibrous Homogeneous	75%	Cellulose	25%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
711DD-111B *041124572-0160*	ROOM 459 - PAPER BACKING ACCOCIATED WITH FIBERGLASS BATT INSULATION	Tan/Black Fibrous Homogeneous	60%	Cellulose	40%	Non-fibrous (other)	**None Detected**
711DD-112A *041124572-0161*	CUSTODIAN ROOM NEXT TO ROOM 461 - BROWN WITH WHITE & BROWN SPECKS 9X9 FLOOR TILE	Brown Non-Fibrous Homogeneous			96%	Non-fibrous (other)	**4% Chrysotile**
711DD-112B *041124572-0162*	CUSTODIAN ROOM NEXT TO ROOM 461 - BROWN WITH WHITE & BROWN SPECKS 9X9 FLOOR TILE						**Stop Positive (Not Analyzed)**
711DD-113A *041124572-0163*	ROOM 458 - GREEN WITH WHITE 9X9 FLOOR TILE	Green Non-Fibrous Homogeneous			94%	Non-fibrous (other)	**6% Chrysotile**

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
711DD-113B *041124572-0164*	ROOM 458 - GREEN WITH WHITE 9X9 FLOOR TILE				**Stop Positive (Not Analyzed)**
711DD-114A *041124572-0165*	ROOM 455 - BROWN GLUE ASSOCIATED WITH LUAN PANELING (WALL)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
		Suggest TEM.			
711DD-114B *041124572-0166*	CUSTODIAN ROOM N/T 461 - BROWN GLUE ASSOCIATED WITH LUAN PANELING (WALL)	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
711DD-115A *041124572-0167*	CORRIDORS AT CLASSROOM WING - TAN WINDOW GLAZING COMPOUND ASSOCIATED W/ DOORS	Tan Fibrous Homogeneous		97% Non-fibrous (other)	**3% Chrysotile**

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			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
711DD-115B *041124572-0168*	CORRIDORS AT CLASSROOM WING (O/S ROOM 464) - TAN WINDOW GLAZING COMPOUND ASSOCIATED W/ DOORS						**Stop Positive (Not Analyzed)**	
711DD-116A *041124572-0169*	ROOM 461 - ORANGE, BROWN & TAN SPECKLED 9X9 FLOOR TILE (LIGHTER)	Brown/Various/Orange Non-Fibrous Homogeneous			95%	Non-fibrous (other)	**5%**	**Chrysotile**
711DD-116B *041124572-0170*	ROOM 461 - ORANGE, BROWN & TAN SPECKLED 9X9 FLOOR TILE (LIGHTER)						**Stop Positive (Not Analyzed)**	

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
711DD-117A *041124572-0171*	HALLWAY OUTSIDE ROOM 464 - CONCEALED GREY VINYL FLOOR TILE UNDERNEATH PLYWOOD	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
		Suggest TEM.			
711DD-117B *041124572-0172*	ROOM 464 - CONCEALED GREY VINYL FLOOR TILE UNDERNEATH PLYWOOD	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
		suggest tem			
711DD-118A *041124572-0173*	ROOM 455 - LIGHT BROWN W/ WHITE STREAKS 9X9 FLOOR TILE (CHECKERED)	Tan Non-Fibrous Homogeneous		92% Non-fibrous (other)	**8% Chrysotile**
711DD-118B *041124572-0174*	ROOM 455 - LIGHT BROWN W/ WHITE STREAKS 9X9 FLOOR TILE (CHECKERED)				**Stop Positive (Not Analyzed)**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
711DD-119A *041124572-0175*	ROOM 455 - BROWN W/ WHITE STREAKS 9X9 FLOOR TILE (CHECKERED)	Brown Non-Fibrous Homogeneous		90% Non-fibrous (other)		**10% Chrysotile**
711DD-119B *041124572-0176*	ROOM 455 - BROWN W/ WHITE STREAKS 9X9 FLOOR TILE (CHECKERED)					**Stop Positive (Not Analyzed)**
711DD-120A *041124572-0177*	HALLWAY OUTSIDE ROOM 464 - ORANGISH BROWN W/ BROWN & TAN SPLOTCHES 12X12 FLOOR TILE (TOP LAYER)	Orange Non-Fibrous Homogeneous		100% Non-fibrous (other)		**None Detected**

Suggest TEM.

Initial report from 09/19/2011 09:55:54

Analyst(s)

Christine Hatter (11) *Garret Vliet (45)* *Laura Torres (38*
Erica Valent (66) *Johnny Yu (46)* *Melanie Koenig*

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146 Hartford Road
Manchester, CT 06040

Fax: (888) 838-1160 Phone: (860) 646-2469

Project: **20100607.A20/RIDEM - FORMER WOONSOCKET MIDDLE SCHOOL**

Customer ID: ENVI54
Customer PO:
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EMSL Order: 041124572

EMSL Proj:
Analysis Date: 9/18/2011

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
711DD-120A-Mastic *041124572-0177A*	HALLWAY OUTSIDE ROOM 464 - ORANGISH BROWN W/ BROWN & TAN SPLOTCHES 12X12 FLOOR TILE (TOP LAYER)	Black Non-Fibrous Homogeneous	20%	Cellulose	80%	Non-fibrous (other)	**None Detected**
711DD-120B *041124572-0178*	HALLWAY OUTSIDE ROOM 464 - ORANGISH BROWN W/ BROWN & TAN SPLOTCHES 12X12 FLOOR TILE (TOP LAYER)	Orange Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
711DD-120B-Mastic *041124572-0178A*	HALLWAY OUTSIDE ROOM 464 - ORANGISH BROWN W/ BROWN & TAN SPLOTCHES 12X12 FLOOR TILE (TOP LAYER)	Black Non-Fibrous Heterogeneous	4%	Cellulose	96%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
711DD-121A *041124572-0179*	CUSTODIAN ROOM N/T ROOM 461 - BROWN GLUE ASSOCIATED WITH WALL PANELING	Brown Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
711DD-121B *041124572-0180*	CUSTODIAN ROOM N/T ROOM 461 - BROWN GLUE ASSOCIATED WITH WALL PANELING	Brown Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
711DD-122A *041124572-0181*	ROOM 462 (UPPER) - OFF WHITE 1X1 CEILING TILE	Tan/White Fibrous Homogeneous	95%	Cellulose	5%	Non-fibrous (other)	**None Detected**
711DD-122B *041124572-0182*	ROOM 462 (UPPER) - OFF WHITE 1X1 CEILING TILE	Tan/White Fibrous Homogeneous	90%	Cellulose	10%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
711DD-123A *041124572-0183*	CLASSROOM WING (451) - GREY LEVELING COMPOUND (@THRESHOLDS)	Gray Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
711DD-123B *041124572-0184*	CLASSROOM WING (451) - GREY LEVELING COMPOUND (@THRESHOLDS)	Gray Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
711DD-124A *041124572-0185*	ROOM 456 - GREENISH GREY W/ WHITE STREAKS 12X12 FLOOR TILE (TOP LAYER)	Green Non-Fibrous Homogeneous		94%	Non-fibrous (other)	**6% Chrysotile**
711DD-124B *041124572-0186*	ROOM 456 - GREENISH GREY W/ WHITE STREAKS 12X12 FLOOR TILE (TOP LAYER)					**Stop Positive (Not Analyzed)**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
711DD-125A *041124572-0187*	ROOM 458 - TAN WITH WHITE & BROWN STREAKS 9X9 FLOOR TILE	Gray Non-Fibrous Homogeneous			98%	Non-fibrous (other)	**2% Chrysotile**
711DD-125B *041124572-0188*	ROOM 458 - TAN WITH WHITE & BROWN STREAKS 9X9 FLOOR TILE						**Stop Positive (Not Analyzed)**
711DD-125B-Mastic *041124572-0188A*	ROOM 458 - TAN WITH WHITE & BROWN STREAKS 9X9 FLOOR TILE	Black Fibrous Heterogeneous	25%	Cellulose	75%	Non-fibrous (other)	**None Detected**
711DD-126A *041124572-0189*	ROOM 460 - GREY W/ PINK & WHITE ST 9X9 FLOOR TILE	Gray Non-Fibrous Homogeneous			96%	Non-fibrous (other)	**4% Chrysotile**
711DD-126B *041124572-0190*	ROOM 460 - GREY W/ PINK & WHITE ST 9X9 FLOOR TILE						**Stop Positive (Not Analyzed)**

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
711DD-127A *041124572-0191*	ROOM 460 - LIGHT GREEN W/ PINK & BLACK STREAKS 9X9 FLOOR TILE	Green Non-Fibrous Homogeneous		97% Non-fibrous (other)	**3% Chrysotile**
711DD-127B *041124572-0192*	ROOM 460 - LIGHT GREEN W/ PINK & BLACK STREAKS 9X9 FLOOR TILE				**Stop Positive (Not Analyzed)**
711DD-128A *041124572-0193*	CUSTODIAN ROOM N/T 461 - TAN W/ WHITE & BROWN SPECKS 9X9 FLOOR TILE	Tan Non-Fibrous Homogeneous		95% Non-fibrous (other)	**5% Chrysotile**
711DD-128B *041124572-0194*	CUSTODIAN ROOM N/T 461 - TAN W/ WHITE & BROWN SPECKS 9X9 FLOOR TILE				**Stop Positive (Not Analyzed)**

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
711DD-129A *041124572-0195*	ROOM 464 - GREY W/ DARK GREY & WHITE SPLOTCHES 12X12 FLOOR TILE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
711DD-129B *041124572-0196*	ROOM 464 - GREY W/ DARK GREY & WHITE SPLOTCHES 12X12 FLOOR TILE	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
711DD-130 *041124572-0197*	ROOM 554A - PINK SINK UNDERCOATING	Pink Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
711DD-131A *041124572-0198*	ROOM 556 - CONCEALED BOTTOM VINYL FLOOR TILE (ASSUME 9X9)- MIXED PATTERN	Green Non-Fibrous Heterogeneous		94% Non-fibrous (other)	**6% Chrysotile**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
711DD-131B *041124572-0199*	ROOM 557 - CONCEALED BOTTOM VINYL FLOOR TILE (ASSUME 9X9)- MIXED PATTERN	Black Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
711DD-131C *041124572-0200*	ROOM 562 - CONCEALED BOTTOM VINYL FLOOR TILE (ASSUME 9X9)- MIXED PATTERN	Green Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
711DD-132 *041124572-0201*	STAIR TO ATTIC (561D) - BLACK MASTIC ON BRICK	Black Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
711DD-133A *041124572-0202*	ROOM 554 - BLACK COMPOSITE COUNTER TOP	Brown Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
711DD-133B *041124572-0203*	ROOM 557 - BLACK COMPOSITE COUNTER TOP	Brown/Gray Fibrous Heterogeneous	60%	Cellulose	40%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
711DD-133C *041124572-0204*	ROOM 561 - BLACK COMPOSITE COUNTER TOP	Gray/Black Non-Fibrous Homogeneous	55%	Cellulose	45%	Non-fibrous (other)		**None Detected**
711DD-134A *041124572-0205*	ROOM 557A - CORKBOARD (BROWN) MASTIC	Brown Fibrous Heterogeneous	20%	Cellulose	80%	Non-fibrous (other)		**None Detected**
711DD-134B *041124572-0206*	ROOM 560 - CORKBOARD (BROWN) MASTIC	Brown Fibrous Heterogeneous	8%	Cellulose	92%	Non-fibrous (other)		**None Detected**
711DD-134C *041124572-0207*	ROOM 557A - CORKBOARD (BROWN) MASTIC (CAULKBOARD FASTNERS)	Brown Non-Fibrous Heterogeneous			100%	Non-fibrous (other)		**None Detected**
711DD-135A *041124572-0208*	ROOM 557A - PEA GREEN MOTTLED 12X12 FT	Green Non-Fibrous Homogeneous			98%	Non-fibrous (other)	**2%**	**Chrysotile**

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
711DD-135B *041124572-0209*	ROOM 557A - PEA GREEN MOTTLED 12X12 FT					**Stop Positive (Not Analyzed)**
711DD-136A *041124572-0210*	HALLWAY O/S 557A - BROWN, DARK BROWN & TAN MOTTLED 12X12 FT (TOP LAYER)	Tan Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
711DD-136B *041124572-0211*	HALLWAY O/S 557A - BROWN, DARK BROWN & TAN MOTTLED 12X12 FT (TOP LAYER)	Tan Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
711DD-137A *041124572-0212*	ROOM 556 - ORANGISH-RED W/ BROWN SLOPTCHES 12X12 FT	Red Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
711DD-137B *041124572-0213*	ROOM 556 - ORANGISH-RED W/ BROWN SLOPTCHES 12X12 FT	Red Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
711DD-138A *041124572-0214*	ROOM 562 - GREEN W/ DARK GREEN & WHITE 12X12 STICK TILE	Green Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
711DD-138B *041124572-0215*	ROOM 562 - GREEN W/ DARK GREEN & WHITE 12X12 STICK TILE	Green Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
711DD-139A *041124572-0216*	ROOM 561 - GREY W/ WHITE SPLOTCHES 12X12 FT (TOP LAYER)	Gray Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
711DD-139B *041124572-0217*	ROOM 561 - GREY W/ WHITE SPLOTCHES 12X12 FT (TOP LAYER)	Gray Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
711DD-140A *041124572-0218*	ROOM 554 - GREYISH BROWN W/ DARK GREY & WHITE SPLOTCHES 12X12 FT	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
711DD-140B *041124572-0219*	ROOM 554 - GREYISH BROWN W/ DARK GREY & WHITE SPLOTCHES 12X12 FT	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
711DD-141A *041124572-0220*	ROOM 300A - BROWN SWIRL LINOLEUM FLOORING	Tan/Black Fibrous Heterogeneous	65%	Cellulose	35%	Non-fibrous (other)	**None Detected**
711DD-141B *041124572-0221*	ROOM 300A - BROWN SWIRL LINOLEUM FLOORING	Tan/Black Non-Fibrous Heterogeneous	20% 25%	Cellulose Synthetic	55%	Non-fibrous (other)	**None Detected**

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711DD-142A *041124572-0222*	ROOM 300A - BLACK PAPER COATING A/W LINOLEUM FLOORING	Black Fibrous Heterogeneous	75%	Cellulose	25%	Non-fibrous (other)	**None Detected**
711DD-142B *041124572-0223*	ROOM 300A - BLACK PAPER COATING A/W LINOLEUM FLOORING	Tan/Black Fibrous Homogeneous	75%	Cellulose	25%	Non-fibrous (other)	**None Detected**
711DD-143A *041124572-0224*	ROOM 305 - GREEN W/ WHITE SPECKS 12X12 FT	Green Fibrous Homogeneous			97%	Non-fibrous (other)	**3% Chrysotile**
711DD-143B *041124572-0225*	ROOM 305 - GREEN W/ WHITE SPECKS 12X12 FT						**Stop Positive (Not Analyzed)**
711DD-144A *041124572-0226*	ROOM 316 - GREEN W/ WHITE STREAKS 12X12 FT	Green Non-Fibrous Heterogeneous			97%	Non-fibrous (other)	**3% Chrysotile**

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Project: **20100607.A20/RIDEM - FORMER WOONSOCKET MIDDLE SCHOOL**

Customer ID: ENVI54
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EMSL Proj:
Analysis Date: 9/18/2011

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
711DD-144B *041124572-0227*	ROOM 316 - GREEN W/ WHITE STREAKS 12X12 FT						**Stop Positive (Not Analyzed)**
711DD-145A *041124572-0228*	BATHROOM BY ROOM 309 - WHITE CERAMIC TILE GROUT (ADHESIVE)	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
711DD-145B *041124572-0229*	BATHROOM BY BR 301A - WHITE CERAMIC TILE GROUT (ADHESIVE)	Gray/White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
711DD-146A *041124572-0230*	ROOM 303 - CEMENT BOARD CHALK BOARD	Gray Fibrous Heterogeneous			70%	Non-fibrous (other)	**30% Chrysotile**
711DD-146B *041124572-0231*	ROOM 316 - CEMENT BOARD CHALK BOARD						**Stop Positive (Not Analyzed)**
711DD-147A *041124572-0232*	ROOM 322 - OFF WHITE W/ BROWN SPECKS 12X12 FT (2ND LAYER)	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
711DD-147B *041124572-0233*	ROOM 322 - OFF WHITE W/ BROWN SPECKS 12X12 FT (2ND LAYER)	Tan/Beige Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
711DD-148 *041124572-0234*	ROOM 322 - TAN GLUE STRIPS ON WOOD	Various Non-Fibrous Heterogeneous		98%	Non-fibrous (other)	**2% Chrysotile**
711DD-149A *041124572-0235*	ROOM 306 - GREY VINYL BASEBOARD	Gray Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
711DD-149B *041124572-0236*	ROOM 306 - GREY VINYL BASEBOARD	Gray Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
711DD-150A *041124572-0237*	ROOM 306 - BROWN MASTIC A/W GREY VBB	Brown/Tan Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
711DD-150B *041124572-0238*	ROOM 306 - BROWN MASTIC A/W GREY VBB	Brown/Tan Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
810DD-151A *041124572-0239*	TYPICAL BATHROOMS (N/T #260) - GREEN COMPOSITE STALL PANELS	Gray/Tan Fibrous Heterogeneous	75%	Cellulose	25%	Non-fibrous (other)	**None Detected**
810DD-151B *041124572-0240*	TYPICAL BATHROOMS (N/T #260) - GREEN COMPOSITE STALL PANELS	Various Non-Fibrous Homogeneous	50%	Cellulose	50%	Non-fibrous (other)	**None Detected**
810DD-152A *041124572-0241*	ROOM 260 - STUCCO-TYPE 1X1 CEILING TILE	Brown Fibrous Heterogeneous	95%	Cellulose	5%	Non-fibrous (other)	**None Detected**
810DD-152B *041124572-0242*	ROOM 260 - STUCCO-TYPE 1X1 CEILING TILE	Brown Fibrous Homogeneous	95%	Cellulose	5%	Non-fibrous (other)	**None Detected**
810DD-153A *041124572-0243*	ROOM 260 - TAN MASTIC A/W 1X1 CT	Brown/Tan Fibrous Heterogeneous	20%	Cellulose	80%	Non-fibrous (other)	**None Detected**
810DD-153B *041124572-0244*	ROOM 260 - TAN MASTIC A/W 1X1 CT	Brown Non-Fibrous Homogeneous	30%	Cellulose	70%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
810DD-154A *041124572-0245*	BOYS BATHROOM-BASEMENT - GREY ADHESIVE ASSOCIATED W/ CERAMIC WALL TILE	Gray Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
810DD-154B *041124572-0246*	GIRLS BATHROOM N/T ROOM 256 - GREY ADHESIVE ASSOCIATED W/ CERAMIC WALL TILE	Gray Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
810DD-155A *041124572-0247*	ROOM 258 - CEMENTITIOUS LEVELING COMPOUND ON POURED CONCRETE	Gray/Tan Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
810DD-155B *041124572-0248*	ROOM 258 - CEMENTITIOUS LEVELING COMPOUND ON POURED CONCRETE	Tan Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
810DD-156A *041124572-0249*	ROOM 258 - BROWN GLUE DAUBS A/W 1X1 CT (UNDER STAIRS ONLY)	Brown Fibrous Homogeneous	75%	Cellulose	25%	Non-fibrous (other)	**None Detected**
810DD-156B *041124572-0250*	ROOM 260 - BROWN GLUE DAUBS A/W 1X1 CT (UNDER STAIRS ONLY)	Brown Non-Fibrous Homogeneous	5%	Cellulose	95%	Non-fibrous (other)	**None Detected**
810DD-157A *041124572-0251*	ROOM 258 - PINHOLE 1X1 CEILING TILE	Brown Fibrous Homogeneous	95%	Cellulose	5%	Non-fibrous (other)	**None Detected**
810DD-157B *041124572-0252*	GIRLS BATHROOM N/T ROOM 256 - PINHOLE 1X1 CEILING TILE	Tan/White Fibrous Heterogeneous	85%	Cellulose	15%	Non-fibrous (other)	**None Detected**
810DD-158A *041124572-0253*	TYPICAL BATHROOMS (N/T 256) - BROWN PAPER INSULATION INSIDE STALL PANELS	Brown Fibrous Homogeneous	95%	Cellulose	5%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
810DD-158B *041124572-0254*	TYPICAL BATHROOMS (N/T 256) - BROWN PAPER INSULATION INSIDE STALL PANELS	Brown Fibrous Heterogeneous	95%	Cellulose	5%	Non-fibrous (other)	**None Detected**
810DD-159A *041124572-0255*	TYPICAL BATHROOMS (N/T 260) - DRYWALL 2X4 CEILING TILE	Brown Non-Fibrous Homogeneous	15%	Cellulose	85%	Non-fibrous (other)	**None Detected**
810DD-159B *041124572-0256*	TYPICAL BATHROOMS (N/T 260) - DRYWALL 2X4 CEILING TILE	White Fibrous Heterogeneous	10% 20%	Glass Cellulose	70%	Non-fibrous (other)	**None Detected**
810DD-160A *041124572-0257*	BOYS BATHROOM N/T ROOM 260 - LIGHTWEIGHT CONCRETE UNDERNEATH WALL TILE	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
810DD-160B *041124572-0258*	GIRLS BATHROOM N/T ROOM 256 - LIGHTWEIGHT CONCRETE UNDERNEATH WALL TILE	White Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
810DD-161A *041124572-0259*	BASEMENT CORRIDOR OLD HS BUILDING - ROUGH PLASTER DROP CEILING	Gray/White Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
810DD-161B *041124572-0260*	BASEMENT CORRIDOR OLD HS BUILDING - ROUGH PLASTER DROP CEILING	Gray/White Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
810DD-161C *041124572-0261*	BASEMENT CORRIDOR OLD HS BUILDING - ROUGH PLASTER DROP CEILING	White Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
810DD-162A *041124572-0262*	CAFETERIA HALLWAY (TO ROOM 255) - TAN WINDOW GLAZING A/W INTERIOR WOOD SASHES	Tan Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
810DD-162B *041124572-0263*	CAFETERIA HALLWAY (TO ROOM 255) - TAN WINDOW GLAZING A/W INTERIOR WOOD SASHES	Tan Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
810DD-163A *041124572-0264*	BASEMENT CORRIDOR OLD HS BUILDING - TEXT SKIM PLASTER (GOES WITH SAMPLE-161)	Gray/Tan Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
810DD-163B *041124572-0265*	BASEMENT CORRIDOR OLD HS BUILDING - TEXT SKIM PLASTER (GOES WITH SAMPLE-161)	Gray Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
810DD-163C *041124572-0266*	BASEMENT CORRIDOR OLD HS BUILDING - TEXT SKIM PLASTER (GOES WITH SAMPLE-161)	White/Beige Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
810DD-164A *041124572-0267*	ROOM 258 - 6" BLACK VINYL BASEBOARD	Black Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
810DD-164B *041124572-0268*	ROOM 258 (THROUGHOUT) - 6" BLACK VINYL BASEBOARD	Black Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
810DD-165A *041124572-0269*	ROOM 258 - DARK BROWN MASTIC A/W 6" BLACK VBB	Brown Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
810DD-165B *041124572-0270*	ROOM 258 - DARK BROWN MASTIC A/W 6" BLACK VBB	Brown Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
810DD-166A *041124572-0271*	ROOM 256 MECH CLOSET - CEMENTITIOUS PENETRATION SEALANT (TYPICAL)	Gray Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
810DD-166B *041124572-0272*	ROOM 256 MECH CLOSET - CEMENTITIOUS PENETRATION SEALANT (TYPICAL)	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
711DD-167A *041124572-0273*	ROOM 408 - BROWN PAPER UNDERNEATH WOOD FLOOR	Brown Fibrous Heterogeneous	40%	Cellulose	60%	Non-fibrous (other)	**None Detected**
711DD-167B *041124572-0274*	ROOM 408 - BROWN PAPER UNDERNEATH WOOD FLOOR	Brown Non-Fibrous Homogeneous	50%	Cellulose	50%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
711DD-168A *041124572-0275*	ROOM 419 - SELF STICK BROWN FLOOR TILE	Brown Fibrous Heterogeneous			95%	Non-fibrous (other)	**5% Chrysotile**
711DD-168B *041124572-0276*	ROOM 419 - SELF STICK BROWN FLOOR TILE						**Stop Positive (Not Analyzed)**
711DD-169A *041124572-0277*	ROOM 452 CLOSET - TAN W/ RED SWIRL PATTERN LINOLEUM FLOORING	Brown/Black Fibrous Heterogeneous	60%	Cellulose	40%	Non-fibrous (other)	**None Detected**
711DD-169B *041124572-0278*	ROOM 452 CLOSET - TAN W/ RED SWIRL PATTERN LINOLEUM FLOORING	Brown/Black Fibrous Homogeneous	50% 20%	Synthetic Cellulose	30%	Non-fibrous (other)	**None Detected**
711DD-170A *041124572-0279*	ROOM 410 - LIGHT BLUE/GREY MOTTLED 12X12 FT	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
711DD-170B *041124572-0280*	ROOM 410 - LIGHT BLUE/GREY MOTTLED 12X12 FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
711DD-171A *041124572-0281*	ROOM 411 - LIGHT BEIGE (LAYER II) FLOOR TILE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
711DD-171B *041124572-0282*	ROOM 411 - LIGHT BEIGE (LAYER II) FLOOR TILE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
711DD-172A *041124572-0283*	ROOM 413 - OFF WHITE W/ BROWN SPECKS 12X12 FLOOR TILE	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
711DD-172B *041124572-0284*	ROOM 413 - OFF WHITE W/ BROWN SPECKS 12X12 FLOOR TILE	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

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Analyst(s)

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Project: **20100607.A20/RIDEM - FORMER WOONSOCKET MIDDLE SCHOOL**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
811DD-173A *041124572-0285*	BOILER ROOM - BLACK PIPE GASKETS	Black Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
811DD-173B *041124572-0286*	BOILER ROOM - BLACK PIPE GASKETS	Black Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
811DD-174A *041124572-0287*	BOILER ROOM - GREY INT DOOR CAULK TO GROUND LEVEL EXT	Gray Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
811DD-175A *041124572-0288*	BOILER ROOM - RESIDUAL BLACK DUCT SEALANT A/W SAW DUST EXHAUST	Black Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
811DD-176A *041124572-0289*	BOILER ROOM - CEMENT OVERCOAT @ TOP OF BOILERS	Black Non-Fibrous Homogeneous		98%	Non-fibrous (other)	**2% Chrysotile**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
811DD-176B *041124572-0290*	BOILER ROOM - CEMENT OVERCOAT @ TOP OF BOILERS					**Stop Positive (Not Analyzed)**
811DD-177A *041124572-0291*	BOILER ROOM - TAN DOOR INTERIOR BLOCKING	Orange Non-Fibrous Homogeneous		94%	Non-fibrous (other)	**6% Chrysotile**
811DD-177B *041124572-0292*	BOILER ROOM - TAN DOOR INTERIOR BLOCKING					**Stop Positive (Not Analyzed)**
811DD-178A *041124572-0293*	BOILER ROOM	Orange Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
811DD-178B *041124572-0294*	BOILER ROOM	Yellow Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
811DD-179A *041124572-0295*	BOILER ROOM OFFICE - SKIM COAT ON CONCRETE CEILING	Gray Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
811DD-179B *041124572-0296*	BOILER ROOM OFFICE - SKIM COAT ON CONCRETE CEILING	Gray Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
811DD-180A *041124572-0297*	BOILER ROOM - INTERIOR BOILER DEBRIS	Brown Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
811DD-180B *041124572-0298*	BOILER ROOM - INTERIOR BOILER DEBRIS	Brown Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
811DD-180C *041124572-0299*	BOILER ROOM - INTERIOR BOILER DEBRIS	Brown Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
811DD-181A *041124572-0300*	BOILER ROOM - FRIABLE INSULATION @ BOILER TOP	Gray Fibrous Homogeneous		85%	Non-fibrous (other)	**15% Chrysotile**
811DD-181B *041124572-0301*	BOILER ROOM - FRIABLE INSULATION @ BOILER TOP					**Stop Positive (Not Analyzed)**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
811DD-181C *041124572-0302*	BOILER ROOM - FRIABLE INSULATION @ BOILER TOP						**Stop Positive (Not Analyzed)**
811DD-182A *041124572-0303*	261A CLOSET - WHITE/TAN CLOTH VIBRATION ISOLATOR	Tan Fibrous Homogeneous	90%	Cellulose	10%	Non-fibrous (other)	**None Detected**
811DD-182B *041124572-0304*	SMALL BOILER ROOM - WHITE/TAN CLOTH VIBRATION ISOLATOR	Tan Fibrous Heterogeneous	95%	Cellulose	5%	Non-fibrous (other)	**None Detected**
811DD-183A *041124572-0305*	SMALL BOILER ROOM - DEBRIS ON FLOOR	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
		Samples are not homogenous.					
811DD-183B *041124572-0306*	SMALL BOILER ROOM - DEBRIS ON FLOOR	Brown Non-Fibrous Homogeneous			97%	Non-fibrous (other)	**3% Chrysotile**

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
811DD-184A *041124572-0307*	SMALL BOILER ROOM - TAN PIPE-TREAD SEALANT	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
811DD-184B *041124572-0308*	SMALL BOILER ROOM - TAN PIPE-TREAD SEALANT	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
811DD-185A *041124572-0309*	BOILER TUNNEL - PREFORMED BLOCK-TYPE PIPE INSULATION	White Fibrous Homogeneous		78% Non-fibrous (other)	**20% Chrysotile** **2% Amosite**
811DD-185B *041124572-0310*	CAFETERIA - PREFORMED BLOCK-TYPE PIPE INSULATION				**Stop Positive (Not Analyzed)**
811DD-185C *041124572-0311*	ROOM 314 - PREFORMED BLOCK-TYPE PIPE INSULATION				**Stop Positive (Not Analyzed)**

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			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
811DD-186A *041124572-0312*	ROOM 255 - AIRCELL PIPE INSULATION	White Fibrous Homogeneous			75%	Non-fibrous (other)	**15%** **10%**	**Chrysotile** **Amosite**
811DD-186B *041124572-0313*	ROOM 256 MECH CLOSET - AIRCELL PIPE INSULATION							**Stop Positive (Not Analyzed)**
811DD-186C *041124572-0314*	BOILER ROOM - AIRCELL PIPE INSULATION							**Stop Positive (Not Analyzed)**
811DD-187A *041124572-0315*	BOILER TUNNEL - MUDDED FITTINGS	White Fibrous Homogeneous	10%	Cellulose	67%	Non-fibrous (other)	**8%** **15%**	**Chrysotile** **Amosite**
811DD-187B *041124572-0316*	GIRLS BATHROOM N/T 256 - MUDDED FITTINGS							**Stop Positive (Not Analyzed)**
811DD-187C *041124572-0317*	CAFETERIA - MUDDED FITTINGS							**Stop Positive (Not Analyzed)**

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
812DD-188A *041124572-0318*	OLD GYM - CEILING SKIM COAT	White Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-188B *041124572-0319*	OLD GYM - CEILING SKIM COAT	White Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-188C *041124572-0320*	OLD GYM - CEILING SKIM COAT	White Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-189A *041124572-0321*	OLD GYM BOYS LOCKER - TAN ADHESIVE A/W CERAMIC WALL TILE	Tan Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-189B *041124572-0322*	OLD GYM BOYS LOCKER - TAN ADHESIVE A/W CERAMIC WALL TILE	White Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
812DD-190A *041124572-0323*	OLD GYM GIRLS LOCKER - BLACK BUILDING PAPER UNDERNEATH WOOD FLOOR	Brown/Black Fibrous Homogeneous	60%	Cellulose	40%	Non-fibrous (other)	**None Detected**
812DD-190B *041124572-0324*	ROOM 114 - BLACK BUILDING PAPER UNDERNEATH WOOD FLOOR	Brown/Black Fibrous Heterogeneous	45%	Cellulose	55%	Non-fibrous (other)	**None Detected**
812DD-191A *041124572-0325*	SCIENCE BASEMENT HALL - POURED CONCRETE FLOORING	Gray/Black Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
812DD-191B *041124572-0326*	SCIENCE BASEMENT HALL - POURED CONCRETE FLOORING	Gray/Black Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
812DD-192A *041124572-0327*	OLD GYM GIRLS SHOWER - TRANSITE SHOWER STALLS	Gray Fibrous Homogeneous		75% Non-fibrous (other)		**20% Chrysotile** **5% Amosite**
812DD-192B *041124572-0328*	OLD GYM GIRLS SHOWER - TRANSITE SHOWER STALLS					**Stop Positive (Not Analyzed)**
812DD-193A *041124572-0329*	ROOM 251C - BROWN GLUE DAUBS A/W LUAN PANELING	Brown/Green Non-Fibrous Homogeneous		60% Non-fibrous (other)		**40% Chrysotile**
812DD-193B *041124572-0330*	ROOM 251C - BROWN GLUE DAUBS A/W LUAN PANELING					**Stop Positive (Not Analyzed)**
812DD-194A *041124572-0331*	WOODSHOP HALLWAY - DOOR GLAZING COMPOUND (WINDOWS)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)		**None Detected**

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
812DD-194B *041124572-0332*	WOODSHOP HALLWAY - DOOR GLAZING COMPOUND (WINDOWS)	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
812DD-195 *041124572-0333*	OLD GYM - THICK BLACK VINYL BASEBOARD (RIGHT ANGLE)	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
812DD-195A *041124572-0334*	OLD GYM - BROWN MASTIC A/W (-195 VBB)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
812DD-195B *041124572-0335*	OLD GYM - BROWN MASTIC A/W (-195 VBB)	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
812DD-196A *041124572-0336*	OLD GYM GIRLS SHOWER - YELLOW MASTIC A/W CERAMIC FLOOR TILE	Yellow Non-Fibrous Homogeneous		98% Non-fibrous (other)	**2% Chrysotile**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
812DD-196B *041124572-0337*	OLD GYM GIRLS SHOWER - YELLOW MASTIC A/W CERAMIC FLOOR TILE						**Stop Positive (Not Analyzed)**
812DD-197A *041124572-0338*	OLD HS OFFICE AREA - CLOTH WALL COVERING	Tan Fibrous Homogeneous	95%	Cellulose	5%	Non-fibrous (other)	**None Detected**
812DD-197B *041124572-0339*	ROOM 258 - CLOTH WALL COVERING	Tan Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
812DD-198A *041124572-0340*	HS MAIN OFFICE - 4" DARK BROWN VINYL BASEBOARD	Brown Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
812DD-199A *041124572-0341*	HS MAIN OFFICE - DARK BROWN MASTIC A/W 4" DARK BROWN VBB	Brown Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
812DD-199B *041124572-0342*	HS MAIN OFFICE - DARK BROWN MASTIC A/W 4" DARK BROWN VBB	Brown Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-200A *041124572-0343*	ROOM 108 - TAN/YELLOW MASTIC A/W FLOOR TILE (TOP LAYER)	Yellow Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-200B *041124572-0344*	ROOM 550 - TAN/YELLOW MASTIC A/W FLOOR TILE (TOP LAYER)	Yellow Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-200C *041124572-0345*	ROOM 557 - TAN/YELLOW MASTIC A/W FLOOR TILE (TOP LAYER)	Yellow Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-201A *041124572-0346*	HALLWAY O/S #554-550 - YELLOW/CLEAR MASTIC A/W TOP 12X12 FT	Brown Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**

Initial report from 09/19/2011 09:55:54

Analyst(s)

Christine Hatter (11) *Garret Vliet (45)* *Laura Torres (38*
Erica Valent (66) *Johnny Yu (46)* *Melanie Koenig*

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Fax: (888) 838-1160 Phone: (860) 646-2469

Project: **20100607.A20/RIDEM - FORMER WOONSOCKET MIDDLE SCHOOL**

Customer ID: ENVI54
Customer PO:
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EMSL Order: 041124572

EMSL Proj:
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
812DD-201B *041124572-0347*	ROOM 502A - YELLOW/CLEAR MASTIC A/W TOP 12X12 FT	Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
812DD-202A *041124572-0348*	ROOM 218 (CLASSROOM WING) - 4" REDDISH BROWN VINYL BASEBOARD	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
812DD-203A *041124572-0349*	ROOM 218 - BROWN MASTIC A/W 4" R/B VBB	Brown Non-Fibrous Homogeneous		97% Non-fibrous (other)	**3% Chrysotile**
812DD-203B *041124572-0350*	ROOM 317 - BROWN MASTIC A/W 4" R/B VBB				**Stop Positive (Not Analyzed)**
812DD-204A *041124572-0351*	ROOM 456 - TOP LAYER WHITE MASTIC A/W VINYL BASEBOARD	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
812DD-204B *041124572-0352*	ROOM 550 - TOP LAYER WHITE MASTIC A/W VINYL BASEBOARD	White Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-205-Cove Base *041124572-0353*	ROOM 224 - 4" BLACK VBB (TYPICAL BROWN MASTIC)	Black Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-205-Mastic *041124572-0353A*	ROOM 224 - 4" BLACK VBB (TYPICAL BROWN MASTIC)	Brown Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-206 *041124572-0354*	ROOM 458 - 6" BLACK (THIN) VBB	Black Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-207A *041124572-0355*	ROOM 458 - DARK BROWN MASTIC A/W 6" BLACK VBB	Brown Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-207B *041124572-0356*	ROOM 458 - DARK BROWN MASTIC A/W 6" BLACK VBB	Brown Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
812DD-208 *041124572-0357*	ROOM 259A - 6" BLACK (THICK) VBB	Black Non-Fibrous Homogeneous			97%	Non-fibrous (other)	**3% Chrysotile**
812DD-209A *041124572-0358*	ROOM 259A - BLACK MASTIC A/W6" BLACK (THICK) VBB	Black Non-Fibrous Homogeneous			94%	Non-fibrous (other)	**6% Chrysotile**
812DD-209B *041124572-0359*	ROOM 259A - BLACK MASTIC A/W6" BLACK (THICK) VBB						**Stop Positive (Not Analyzed)**
812DD-210A *041124572-0360*	ROOM 306 - BLACK MASTIC (UNDER WOOD)	Black Non-Fibrous Homogeneous	60%	Cellulose	40%	Non-fibrous (other)	**None Detected**
812DD-210B *041124572-0361*	ROOM 409 - BLACK MASTIC (12X12 FT) TOP LAYER	Black Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
812DD-210C *041124572-0362*	HALL O/S 464 - BLACK MASTIC (12X12 FT) TOP LAYER	Black Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
812DD-210D *041124572-0363*	ROOM 456 - BLACK MASTIC (12X12 FT) TOP LAYER	Black Non-Fibrous Homogeneous		96% Non-fibrous (other)	**4% Chrysotile**
		Samples in group do not appear homogenous.			
812DD-210E *041124572-0364*	ROOM 553 - BLACK MASTIC (12X12 FT) TOP LAYER				**Stop Positive (Not Analyzed)**
812DD-211A *041124572-0365*	ROOM 259A - BLACK (BOTTOM) MASTIC A/W 9X9 FT	Black Non-Fibrous Homogeneous		98% Non-fibrous (other)	**2% Chrysotile**
812DD-211B *041124572-0366*	ROOM 356 - BLACK (BOTTOM) MASTIC A/W 9X9 FT				**Stop Positive (Not Analyzed)**
812DD-211C *041124572-0367*	HALL O/S 456 - BLACK (BOTTOM) MASTIC A/W 9X9 FT				**Stop Positive (Not Analyzed)**

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
812DD-212A *041124572-0368*	ROOM 105 - BLACK MASTIC A/W 9X9 FLOOR TILE	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
			Samples do not appear homogenous.		
812DD-212B *041124572-0369*	ROOM 203 - BLACK MASTIC A/W 9X9 FLOOR TILE	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
812DD-212C *041124572-0370*	BOILER ROOM - BLACK MASTIC A/W 9X9 FLOOR TILE	Black/Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
812DD-212D *041124572-0371*	ROOM 109 WOODSHOP - BLACK MASTIC A/W 9X9 FLOOR TILE (UNDER WOOD FLOOR)	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
812DD-213A *041124572-0372*	AUDITORIUM WALL - SKIM PLASTER (NOT HORSE HAIR)	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
812DD-213B *041124572-0373*	AUDITORIUM PANEL - SKIM PLASTER (NOT HORSE HAIR)	White Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-213C *041124572-0374*	AUDITORIUM BALCONY CEILING - SKIM PLASTER (NOT HORSE HAIR)	White Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-213D *041124572-0375*	ROOM 251C WALL - SKIM PLASTER (NOT HORSE HAIR)	White Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-213E *041124572-0376*	SCIENCE HALL LOW CEILING - SKIM PLASTER (NOT HORSE HAIR)	White Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-213F *041124572-0377*	KITCHEN CEILING - SKIM PLASTER (NOT HORSE HAIR)	White Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
812DD-213G *041124572-0378*	GRAND ENTRY WALL - SKIM PLASTER (NOT HORSE HAIR)	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
812DD-214A *041124572-0379*	AUDITORIUM WALL - ROUGH PLASTER (NOT HORSE HAIR)	Gray Non-Fibrous Homogeneous	1%	Synthetic	99%	Non-fibrous (other)	**None Detected**
812DD-214B *041124572-0380*	AUDITORIUM PANEL - ROUGH PLASTER (NOT HORSE HAIR)	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
812DD-214C *041124572-0381*	AUDITORIUM BALCONY CEILING - ROUGH PLASTER (NOT HORSE HAIR)	Gray Non-Fibrous Homogeneous	1%	Synthetic	99%	Non-fibrous (other)	**None Detected**
812DD-214D *041124572-0382*	ROOM 251C WALL - ROUGH PLASTER (NOT HORSE HAIR)	Gray Fibrous Homogeneous	2%	Synthetic	98%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
812DD-214E *041124572-0383*	SCIENCE HALL LOW CEILING - ROUGH PLASTER (NOT HORSE HAIR)	Gray Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-214F *041124572-0384*	KITCHEN CEILING - ROUGH PLASTER (NOT HORSE HAIR)	Gray Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-214G *041124572-0385*	GRAND ENTRY WALL - ROUGH PLASTER (NOT HORSE HAIR)	Gray Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-215A *041124572-0386*	OLD HS ENTRANCE (WALL) - SKIM PLASTER (A/W HORSE HAIR)	White Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-215B *041124572-0387*	OLD GYM GIRLS LOCKER CEIL - SKIM PLASTER (A/W HORSE HAIR)	White Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
812DD-215C *041124572-0388*	ROOM 109 WOODSHOP CEIL - SKIM PLASTER (A/W HORSE HAIR)	White Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-215D *041124572-0389*	ROOM 258 LOWER WALL (ON BRICK) - SKIM PLASTER (A/W HORSE HAIR)	White Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-215E *041124572-0390*	ROOM 356 WALL - SKIM PLASTER (A/W HORSE HAIR)	White Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-215F *041124572-0391*	ROOM 451 WALL - SKIM PLASTER (A/W HORSE HAIR)	White Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
812DD-215G *041124572-0392*	ROOM 501 WALL - SKIM PLASTER (A/W HORSE HAIR)	White Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
812DD-216A *041124572-0393*	OLD HS ENTRANCE (WALL) - ROUGH HORSE HAIR PLASTER	Gray Fibrous Homogeneous	5%	Synthetic	95%	Non-fibrous (other)	**None Detected**
812DD-216B *041124572-0394*	OLD GYM GIRLS LOCKER CEIL - ROUGH HORSE HAIR PLASTER	Gray Non-Fibrous Homogeneous	1%	Cellulose	99%	Non-fibrous (other)	**None Detected**
812DD-216C *041124572-0395*	ROOM 109 WOODSHOP CEIL - ROUGH HORSE HAIR PLASTER	Gray Fibrous Homogeneous	4%	Cellulose	96%	Non-fibrous (other)	**None Detected**
812DD-216D *041124572-0396*	ROOM 258 LOWER WALL (ON BRICK) - ROUGH HORSE HAIR PLASTER	Gray Fibrous Homogeneous	4%	Synthetic	96%	Non-fibrous (other)	**None Detected**
812DD-216E *041124572-0397*	ROOM 356 WALL - ROUGH HORSE HAIR PLASTER	Gray Fibrous Homogeneous	2%	Synthetic	98%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
812DD-216F *041124572-0398*	ROOM 451 WALL - ROUGH HORSE HAIR PLASTER	Gray Non-Fibrous Homogeneous	1%	Cellulose	99%	Non-fibrous (other)	**None Detected**
812DD-216G *041124572-0399*	ROOM 501 WALL - ROUGH HORSE HAIR PLASTER	Gray Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

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Appendix C

Asbestos TEM Laboratory Analytical Results

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FAX: (856) 786-0235

September 9, 2011

Steven Hubbs
Fuss & O'Neill EnviroScience, LLC
146 Hartford Road
Manchester, CT 06040

shubbs@fando.com

Re: **Narrative EMSL Order ID 041126490**

Dear Steven:

On September 14, 2011 EMSL Analytical, Inc. (Woburn, MA) received 415 bulk samples for 20100607.A20/RIDEM - FORMER WOONSOCKET MIDDLE SCHOOL project. These samples were brought in by Federal Express. The EMSL NJ lab accepted these samples and received them on September 14, 2011. All samples were logged in following normal lab procedures and were received in acceptable condition. All 415 samples were present and in acceptable condition.

TEM EPA NOB (Gravimetric Reduction)

After initial PLM analysis and data review by the client, 40 samples were chosen by the client for follow-up TEM analysis via EPA 600/R-93/11 –116. This method incorporates matrix reduction and preparation (organic/inorganic components). Asbestos content in the samples are reported on a % basis for the asbestos concentration. The limit of quantification for this method of <1%. Positive stops as well as sample layers were established by the client as applicable.

TEM batch lab blanks, scope alignments, inter and intra QC analysis were performed in accordance with EMSL's QC SOP. All QC data was deemed as acceptable.

Stephen Siegel, CIH
Asbestos Lab Manager
EMSL Cinnaminson, NJ

FUSS & O'NEILL

INITIAL DATE: OCTOBER 2011
REVISION DATE: FEBRUARY 2012
REVISION: 1.0

ITEM - 041126490

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
MODIFIED TIER I COMPLETENESS CHECKLIST

	YES	NO	
1. SAMPLING AND FIELD MEASUREMENTS:			
Field measurement calibration records	☐	☐	N/A
Groundwater field measurements (if applicable)	☐	☐	↓
Soil sampling field measurements (if applicable)	☐	☐	
Sediment sampling field measurements (if applicable)	☐	☐	
Surface water sampling field measurements (if applicable)	☐	☐	
Low-flow sampling field measurements (if applicable)	☐	☐	↓
Documentation of field activities	☒	☐	
Sample numbering and labeling	☒	☐	
Chain-of-Custody records	☒	☐	
Trip blanks	☐	☐	N/A
Duplicate samples	☐	☐	↓
Equipment blanks	☐	☐	
Split samples (if any)	☐	☐	↓
2. LABORATORY MEASUREMENTS:			
Trip blanks	☐	☐	N/A
Instrument blanks	☒	☐	
Laboratory control samples	☒	☐	
Duplicates samples	☒	☐	
Equipment blanks	☐	☐	N/A
Matrix spike/matrix spike duplicates	☐	☐	↓
Analysis type	☒	☐	
Chain-of-Custody records	☒	☐	
Surrogate recoveries	☐	☐	N/A
Sample Project Narratives	☒	☐	
Split samples (if any)	☐	☐	N/A
TOTAL:	9	—	

PERCENT COMPLETE: 100 %

INITIAL DATE: OCTOBER 2011
REVISION DATE: FEBRUARY 2012
REVISION: 1.0

GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

	YES	NO	COMMENTS
1. SAMPLING AND FIELD MEASUREMENTS:			
Field measurement calibration records			
pH - ± 0.3 pH units	☐	☐	N/A
S.C. - ± 5% of calibration solution, within?			
calibration range	☐	☐	
Temperature - ± 0.5 °C	☐	☐	
D.O. - ± 5% of calibration solution	☐	☐	
Groundwater field measurements (if applicable)			
Water depth measured to within 0.01 ft.?	☐	☐	
Soil sampling field measurements (if applicable)			
OVM - ± 2 ppm	☐	☐	
OVA - ± 2 ppm	☐	☐	
Sediment sampling field measurements (if applicable)			
Descriptive information recorded?	☐	☐	
Surface water sampling field measurements (if applicable)			
Water depth measured to within 0.01 ft.?	☐	☐	
Low-flow sampling field measurements (if applicable)			
S.C. - ± 10%	☐	☐	
pH - ± 0.2 pH units	☐	☐	
Temperature - ± 10%	☐	☐	
Turbidity - ±5 NTU	☐	☐	
Documentation of field activities			
Site-specific information documented in field notebook?	☒	☐	
Field data sheets completed?	☒	☐	
Sample numbering and labeling			
Sample numbering conforms to sample I.D. system identified in QAPP?	☐	☒	numbering specific to building materials
Chain-of-Custody records			
Chain-of-Custody forms completed?	☒	☐	

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST
(Continued)

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

	YES	NO	COMMENTS
Trip blanks			
Trip blanks submitted, one per day?	☐	☐	N/A
Any compounds detected in trip blanks?	☐	☐	
Duplicate samples			
Field duplicates performed, 1/20 samples?	☐	☐	
Duplicates performed on 10% of samples screened for explosives?	☐	☐	
Is percent difference within 30% for all field parameters?	☐	☐	
Equipment blanks			
Equipment blanks submitted, one per sampling day?	☐	☐	
Any compounds detected in equipment blank?	☐	☐	
Split samples (if any)			
Split samples collected?	☐	☐	
Is percent difference within 30% for split samples?	☐	☐	

2. LABORATORY MEASUREMENTS:

Trip blanks			
Trip blanks submitted, one per day?	☐	☐	N/A
Any compounds detected in trip blanks?	☐	☐	
Instrument blanks**	☒	☐	
Laboratory control samples**	☒	☐	
Duplicates samples**	☐	☐	N/A
Equipment blanks**	☐	☐	
Matrix spike/matrix spike duplicates**	☐	☐	
Analysis type	☒	☐	
Chain-of-Custody records	☒	☐	
Surrogate recoveries**	☐	☐	N/A
Sample Project Narratives	☒	☐	
Split samples (if any)**	☐	☐	N/A
Most recent EPA WP-PE sample results**	☐	☐	

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (800) 220-3675 Fax: (856) 786-5974 Email: cinnasblab@EMSL.com

Attn: **Karron Redfield**
Fuss & O'Neill EnviroScience, LLC
146 Hartford Road
Manchester, CT 06040

Fax: (888) 838-1160 Phone: (860) 646-2469

Project: **ORIG 041124572--20100607.A20/RIDEM - FORMER WOONSOCKET MIDDLE SCHOOL**

Customer ID: ENVI54
Customer PO:
Received: 10/03/11 3:00 PM
EMSL Order: 041126490

EMSL Proj:
Analysis Date: 10/5/2011

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
818DD-01A *041126490-0001*		Brown Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
818DD-02A *041126490-0002*		Tan Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
818DD-09A *041126490-0003*		Brown Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
818DD-10A *041126490-0004*		Tan Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
818DD-13A *041126490-0005*		Brown Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
818DD-17A *041126490-0006*		Brown Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
818DD-18A *041126490-0007*		Tan Non-Fibrous Heterogeneous	95.4	None	4.6% Chrysotile
818DD-22A *041126490-0008*		Brown /Tan /Green Non-Fibrous Heterogeneous	100	None	No Asbestos Detected

Initial report from 10/05/2011 13:11:44

Analyst(s)

Peter Harrison (39)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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200 Route 130 North, Cinnaminson, NJ 08077
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SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
818DD-24A *041126490-0009*		Black Non-Fibrous Heterogeneous	100	None	<0.25% Chrysotile
818DD-34A *041126490-0010*		Gray Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
818DD-35A *041126490-0011*		Brown /Tan Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
818DD-37A *041126490-0012*		Blue /Green Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
818DD-47A *041126490-0013*		Brown /Tan /Beige Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
76DD-48A *041126490-0014*		Red Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
76DD-49A *041126490-0015*		Gray /Yellow Non-Fibrous Heterogeneous	99.6	None	0.45% Chrysotile
76DD-50A *041126490-0016*		Gray Non-Fibrous Heterogeneous	96.8	None	3.2% Anthophyllite

Initial report from 10/05/2011 13:11:44

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SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
76DD-51A *041126490-0017*		Blue Non-Fibrous Heterogeneous	71.8	None	28.2% Chrysotile
76DD-56A *041126490-0018*		Brown /White /Beige Non-Fibrous Heterogeneous	99.3	None	0.68% Chrysotile
76DD-57A *041126490-0019*		Brown /Gray /White Non-Fibrous Heterogeneous	98.1	None	1.9% Chrysotile
76DD-59A *041126490-0020*		Brown /White Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
76DD-61A *041126490-0021*		Green Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
76DD-70A *041126490-0022*		Black Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
76DD-71A *041126490-0023*		Brown Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
76DD-89A *041126490-0024*					

Insufficient Material

Initial report from 10/05/2011 13:11:44

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EMSL Proj:
Analysis Date: 10/5/2011

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
76DD-96A *041126490-0025*		Brown Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
76DD-97A *041126490-0026*		Tan /Yellow Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
711DD-110A *041126490-0027*		Brown Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
711DD-114A *041126490-0028*		Brown Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
711DD-117A *041126490-0029*		Gray Non-Fibrous Heterogeneous	95.7	None	4.3% Anthophyllite
711DD-131A *041126490-0030*		Gray Non-Fibrous Heterogeneous	80.1	None	19.9% Chrysotile
711DD-140A *041126490-0031*		Gray /White Non-Fibrous Heterogeneous	95.5	None	4.5% Chrysotile
711DD-149A *041126490-0032*		Gray Non-Fibrous Heterogeneous	100	None	No Asbestos Detected

Initial report from 10/05/2011 13:11:44

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SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
711DD-150A *041126490-0033*		Brown Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
810DD-164A *041126490-0034*		Black Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
810DD-165A *041126490-0035*		Brown Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
812DD-195 *041126490-0036*		Black Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
812DD-195A *041126490-0037*		Brown Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
812DD-198A *041126490-0038*		Brown Non-Fibrous Heterogeneous	100	None	<0.25% Chrysotile
812DD-199A *041126490-0039*		Brown Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
812DD-212A *041126490-0040*		Black Non-Fibrous Heterogeneous	100	None	No Asbestos Detected

Initial report from 10/05/2011 13:11:44

Analyst(s)

Peter Harrison (39)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

THIS IS THE LAST PAGE OF THE REPORT.

FMR. WOONSOCKET M.S.
EMSL ORDER ID 041124572
PLM + TEM

FUSS & O'NEILL

INITIAL DATE: JULY 2007
REVISION DATE: JULY 2007
REVISION: 0.0

GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
ORGANIC COMPOUNDS

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**

		YES	NO	COMMENTS
1.	SDG Project Narratives	☐	☐	N/A
2.	Traffic Report	☐	☐	N/A
3.	Volatiles Data			
a.	Sample Data			
	Target Compound List (TCL) Results	☐	☐	
	Reconstructed total ion chromatograms (RIC) for each sample	☐	☐	
	For each sample:			
	Raw spectra and background-subtracted mass spectra of target compounds identified	☐	☐	
	Mass spectra of all reported TICs with three best library matches	☐	☐	
	Percent solids calculations	☐	☐	
b.	Standards Data (all instruments)			
	Initial Calibration Data	☐	☐	
	RICs and Quan Reports for all Standards	☐	☐	
	Continuing Calibration	☐	☐	
	RICs and Quan Reports for all Standards	☐	☐	
	Internal Standard Area Summary	☐	☐	
c.	Raw QC Data			
	Blank Data	☐	☐	
	Matrix Spike Data	☐	☐	
	Matrix Spike Duplicate Data	☐	☐	
4.	Semivolatiles Data			
a.	QC Summary			
	Surrogate Percent Recovery Summary	☐	☐	
	MS/MSD Summary	☐	☐	
	Method Blank Summary		☐	☐
	Tuning and Mass Calibration	☐	☐	

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
ORGANIC COMPOUNDS
(Continued)

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**

	YES	NO	COMMENTS
b. Sample Data			N/A
TCL Results	☐	☐	
Tentatively Identified Compounds	☐	☐	
Reconstructed total ion chromatograms (RIC) for each Sample	☐	☐	
For each sample: Raw spectra and background-subtracted mass spectra of TCL compounds	☐	☐	
Mass spectra of TICs with 3 best library matches		☐	☐
GPC chromatograms (if GPC performed)	☐	☐	
c. Standards Data (all instruments)			
Initial Calibration Data	☐	☐	
RICs and Quan Reports for all Standards	☐	☐	
Continuing Calibration	☐	☐	
RICs and Quan Reports for all Standards	☐	☐	
Internal Standard Areas Summary	☐	☐	
Internal Standard Areas Summary	☐	☐	
d. Raw QC Data			
Decafluorotripbenylphosphine (DFTPP)		☐	☐
Blank Data	☐	☐	
Matrix Spike Data	☐	☐	
Matrix Spike Duplicate Data	☐	☐	
5. Miscellaneous Data			
Original preparation and analysis forms or copies of preparation and analysis log book pages	☐	☐	N/A
Internal sample & sample extract transfer chain-of custody records	☐	☐	
Screening Records	☐	☐	

All instrument output, including strip charts from screening activities (describe or list)	☐	☐	N/A

INITIAL DATE: JULY 2007
REVISION DATE: JULY 2007
REVISION: 0.0

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
ORGANIC COMPOUNDS
(Continued)

		PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**		
		YES	NO	COMMENTS
6.	Chain-of-Custody Records	☑	☐	
	Sample Log-in Sheet (Lab & DC1)	☑	☐	
	Miscellaneous Shipping/Receiving Records (describe or list)	☑	☐	
7.	Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)	☑	☐	
8.	Other Records (describe or list)	☐	☐	

9. Comments:

** See laboratory Quality Assurance Plan for limits.

Completed by: (Lab) _____ (Signature) Stephen Sicard Lab Manager (Printed Name/Title) 9/19/14 Date

I certify that the above information is true and accurate. I further certify that all laboratory results associated with the above analyses will be made available for review for seven (7) years following certification of this document.

Certified by: (Lab) _____ (Signature) Stephen Sicard - Lab Mgr (Printed Name/Title) 9/19/14 Date

INITIAL DATE: JULY 2007
REVISION DATE: JULY 2007
REVISION: 0.0

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
INORGANIC COMPOUNDS

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**

		YES	NO	COMMENTS
1.	SDG Project Narratives	☐	☐	
2.	Inorganic Analysis Data Sheet	☐	☐	
3.	Initial and Continuing Calibration Verification	☐	☐	N/A
4.	CRDL Standard for AA and ICP	☐	☐	
5.	Blanks	☐	☐	
6.	ICP Interference Check Sample	☐	☐	N/A
7.	Spike Sample Recovery	☐	☐	
8.	Post Digest Spike Sample Recovery	☐	☐	
9.	Duplicates	☐	☐	N/A
10.	Laboratory Control Sample	☐	☐	
11.	Standard Addition Results	☐	☐	
12.	ICP Serial Dilutions	☐	☐	
13.	Instrument Detection Limits, Quarterly	☐	☐	
14.	ICP Interelement Correction Factors, Annually	☐	☐	
15.	ICP Linear Ranges Quarterly	☐	☐	
16.	Preparation Log		☐	☐
17.	Analysis Run Log	☐	☐	N/A
18.	ICP Raw Data	☐	☐	
19.	Furnace AA Raw Data	☐	☐	
20.	Mercury Raw Data	☐	☐	
21.	Percent Solids Calculations	☐	☐	
22.	Digestion Logs	☐	☐	
23.	EPA Shipping/Receiving Records			
	(List all individual records)	☐	☐	
	Chain-of Custody Records	☐	☐	
	Sample Log-In sheet	☐	☐	
24.	Miscellaneous Shipping/Receiving Records (List all individual records)	☐	☐	

_____

_____

_____

INITIAL DATE: JULY 2007
REVISION DATE: JULY 2007
REVISION: 0.0

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
INORGANIC COMPOUNDS
(Continued)

		PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**		
		YES	NO	COMMENTS
25.	Internal Lab Sample Transfer Records and Tracking Sheets (Describe or List) Internal COC	✓		
26.	Internal Original Sample Preparation and analysis Records (Describe or List	☐	☐	
	Preparation Records	☐	☐	
	Analysis Records	✓	☐	
	Description	☐	☐	
27.	Other Records (Describe or List)			
28.	Comments:			

** See laboratory Quality Assurance Plan for limits.

Completed by: _____ Stephen Smith Lab Mgr 9-19-11
(Lab) (Signature) (Printed Name/Title) Date

I certify that the above information is true and accurate. I further certify that all laboratory results associated with the above analyses will be made available for review for seven (7) years following certification of this document.

Certified by: _____ Stephen Smith Lab Mgr 9-19-11
(Lab) (Signature) (Printed Name/Title) Date

Appendix D

XRF Lead Testing Field Data Sheets

FUSS & O'NEILL
EnviroScience, LLC

Project #_____ Address _____ Date_____

Room	Side	Surface	Pb by XRF	Defective	Substrate*
Main Ent	B	Door Frame	-0.1		W
	B	Door	-0.0		M
	BCD	Wall	1.5	Y	P
	C	Door	-0.1		W
	C	Radiator	0.5		M
	AC	Molding	6.2	Y	W
360	ABCD	Door	0.0		W
	↓	↓ Frame	0.2		W
	↓	Wall upper	0.3-0.6		P
	↓	↓ lower	1.6-2.3	Y	P
	D	Radiator	3.2	Y	M
	ABCD	Chair rail	0.1		W
	B	Sill	0.1		W
	B	window components	0.0		M
	B	↓ Frame	0.0		W
360B	B	↓ Sill	0.1		W
	B	↓ Frame	0.0		W
	B	↓ components	~0.1		M
	ABC	upper wall	1.0	Y	P
	↓	lower ↓	2.2	Y	P
	ABC	Chair Rail + Baseboard	0.2		W
	B	Radiator	3.2	Y	M
	D	wall	0.3		D
360C	ABCD	Upper wall	1.0	Y	P
	↓	lower ↓	1.3	Y	P
	B	Radiator	3.2	Y	M
	B	window comp	0.1		W
	ABCD	CR + BB	0.1		W
	AD	Door + Frame	0.2		W
360	D	Surface	4.2	Y	M
Library Hall	BD	upper wall	0.0-1.0	Y	P
	↓	lower wall	1.0	Y	P
	D2	Door + Frame	0.0		W
Storage Closet	ABCD	wall	1.0	Y	P
across from	B	Shelves	0.0		W
355B	D	Door + Frame	0.3		W
Stair 15	ABCD	wall	2.2	Y	B
		Stair	0.0		C
		Newel post	1.3	Y	M

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FUSS & O'NEILL
EnviroScience, LLC

Project #_____ Address _____ Date_____

Room	Side	Surface	Pb by XRF	Defective	Substrate*
		Ballister	1.0	Y	M
		Stringer	1.0	Y	M
		Riser	1.1	Y	M
		underneath Stairs	0.1		M
		Metal Handrail	0.1		M
	B D	Door	0.1		M
362	ABCD	upper wall	1.3	Y	P
	↓	lower ↓	1.0	Y	P
	B	Radiator	2.5	Y	M
	B	window s.ll	0.0		W
	B	window comp	-0.1		M
	ABCD	CR + BB	0.0		W
	D	Door + Frame	0.0-0.4		M
357 LIBRARY		ceiling (TIN)	-0.1		M (TIN)
		ceiling (ABOVE TIN)	0.1		P
	ABCD	upper wall	2.5	Y	P
	↓	lower ↓	1.7	Y	P
	CD	Radiator	3.4	Y	M
	CD	window s.ll	0.1		W
	↓	↓ components	0.0		M
		Shelving	0.0		M
		↓	0.0		W
	A	wall	0.1		P
355, 355A, + 355B	ABCD	upper wall	1.2	Y	P
		lower ↓	3.3	Y	P
	D	Radiator	3.2	Y	M
		window comp	0.1		M
	B1	Door + Frame	0.0-0.1		W
		Shelves	0.1		W
Library	ABCD	upper wall	1.6	Y	P
work Room	↓	lower ↓	2.3	Y	P
	A	wall	0.1		D
	D	window comps	0.1		W
	D	Radiator	3.3	Y	M
358	ABCD	wall	1.0-2.3	Y	P
	↓	BB-CR	0.1		W
	D	Door + Frame	-0.1		W
	B	Radiator	3.0	Y	M
		Ceiling	0.0		

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FUSS & O'NEILL
EnviroScience, LLC

Project #_____ Address _____ Date_____

Room	Side	Surface	Pb by XRF	Defective	Substrate*
356	ABCD	wall	1.3	Y	P
	AB	window comp	0.1		M
	↓	↓ sill	0.2		W
	C	Dbl Door	0.3		M
354	ABCD	wall	2.2	Y	P
	↓	CR + BB	0.2		W
	A	window comp	-0.1		M
	A	↓ sill	0.1		W
		computer benches	0.3		W/M
	AD	Radiators	3.1	Y	M
	B	Door + Frame	0.1		M
Hall outside	ABCD	wall	0.2		P
353	ABCD	wood Trim	0.1		W
	↓	Door + Frame	0.1		W
	↓	locker	0.2		M
456	ABCD	wall	0.8-1.7	Y	P
	AB	Radiator	3.1	Y	M
	↓	window sill	0.2		W
	↓	↓ comp	0.0		M
Hall outside	BD	wall	0.0-0.2		P
458		CR+BB	0.1		W
		Door + Frame	0.1		W
458	B	wall	0.0		P
	ACD	↓	1.1	Y	P
	B	Radiator	3.3	Y	M
460	B	wall	1.5	Y	P
	ACD	wall	0.1		P
	B	Radiator	3.2	Y	M
	B	sill	0.1		W
	B	window comp	0.2		M
	B	BB	0.0		W
	D	Door + Frame	-0.1		W
462	ABCD	wall	1.2-5.0	Y	P
		Moldings	1.0	Y	W
		Ceiling	0.0		P
464	ABCD	wall	1.0-2.2	Y	P
	BC	Radiator	3.0	Y	M
	D	Door	0.0		M
	A	Door	0.0		W

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FUSS & O'NEILL
EnviroScience, LLC

Project #_____ Address _____ Date_____

Room	Side	Surface	Pb by XRF	Defective	Substrate*
463	ABCD	Wall	1.5-3.0	Y	P
	↓	BB & CR	0.0		W
	CD	Radiator	3.0	Y	M
	B	Door & Frame	0.2		M
Custodian Room	ABCD	wall Paneling	0.0		W
4th Floor	D	Door & Frame	0.1		W
459+461	ABCD	wall Paneling	0.0		W
		Ceiling	0.1		P
457&455	ABCD	wall Paneling	0.0		W
	B	Door & Frame	-0.1		W
	D	window sill	0.2		W
	D	+ components	0.2		M
	D	Radiator	0.1		M
454	~~A~~BCD	Wall	1.3-2.0	Y	P
	AD	Radiator	3.1	Y	M
	A	wall	0.1	~~Y~~	P
556	ABCD	wall	1.1-2.5	Y	P
	AB	Radiators	3.1	Y	M
	ABCD	CR + BB	0.3		W
556 storage		Floor	0.1		W
558-560	ABCD	walls	1.6	Y	P
	B	Radiator	3.3	Y	M
	ABCD	CR + BB	0.2		W
Hall outside 558	BD	walls	0.8-1.2	Y	P
	B	Door & Frame	-0.2		W
	BD	BB + CR	0.1		W
	C	Door	0.0		M
562	ABCD	wall	1.2-2.5	Y	P
	BC	Radiator	3.1	Y	M
	B	Door	-0.1		M
	D	Cabinets	0.3		W
561	ABCD	walls	1.1-2.6	Y	P
	CD	Radiator	3.0	Y	M
561A	ABCD	wall Paneling	0.0		W
		Ceiling	-0.1		CT
	ABCD	wall	1.0	Y	P
		Hand rail	0.1		W
		Ballaster	1.0	Y	M
559	ABCD	wall	0.7-1.2	Y	P

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FUSS & O'NEILL
EnviroScience, LLC

Project #_____ Address _____ Date_____

Room	Side	Surface	Pb by XRF	Defective	Substrate*
559	ABCD	CR & BB	0.1		W
	D	Radiator	3.1	X	M
557 & 555	ABCD	wall	0.7-1.7	Y	P
or 554	D	Radiator	3.1	Y	M
	D	window sill	0.1		W
	D	↓ comp	-0.1		M
		Cabinets	-0.2		W
554A	ABCD	wall	1.0	Y	P
		ceiling	0.4		M
	A	Door	0.1		M
256	ABCD	walls	0.6		B
	AD	Radiator	1.1	Y	M
		Floor	0.4		C
		Pipes	0.5		M
	A B	window Frame	0.3		W
		Ceiling	0.2		P
Girls Lav	ABCD	ceramic Tile	2.3	Y	Ceramic
near 256		Stalls	0.2		M
	ABCD	walls	1.0	Y	B
	D	Door	0.0		W
258	ABD	wall	1.2	Y	B
	C	wall	0.5-0.7		P
260	BCD	wall	1.0	Y	B
	A	↓	0.6-0.8		P
	B	sill	0.0		W
Boys Lav		Ceramic Tile	0.4		Ceramic
near 260	ABCD	wall	1.6	Y	B
	A	Radiator	1.6	Y	M
262	ABCD	wall	2.5	Y	B
	A	wall	0.2		W
	C	Door	0.0		W
Hall outside 262	BD	wall	1.0	Y	B
		Ceiling	0.5		P
	BD	Door + Frame	0.2		W
		Fire pipe	0.1		M
261 & 261A	ABCD	wall	~~ABCD~~ 0.0		Glazed B
	CD	wall	~~CD~~ 0.3-2.3	Y	B
	B	Door Frame	0.0		M
	C	Radiator	1.3	Y	M

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Project #_____ Address _____ Date_____

Room	Side	Surface	Pb by XRF	Defective	Substrate*
257	ABCD	wall	0.0-0.3		B
257A	ABCD	wall	1.4	Y	B
& 257B	B	Door & Frame	0.3		W
		Shelves	0.1		W
259 & 259A	ABCD	Walls	0.0-1.1	Y	B
	↓	Door	0.1		W
	↓	↓ Frame	0.0		M
		ceiling	0.1		P
		window Frame	0.3		M
255	ABCD	walls	0.0-0.5	Y	B
		Floor	0.2		C
		ceiling	0.1		P
		Pipe	0.5		M
253	ABCD	walls	0.3-1.6	Y	B
		Floor	0.0		C
254	ABCD	wall	0.6-1.2	Y	B
		Floor	0.2		C
	A	window Frame	0.2		W
	A	+ Comp	0.1		M
	AB	Radiator	2.2	Y	M
Hall outside	ABC	wall	0.0-0.5		P
252	ABCD	Molding	0.0		W
	C1	Door + Frame	0.0		W
	A	Dbl Door	0.0		M
352, 350,	ABCD	Wall	0.1-0.2		P
351, & 353	↓	CR & BB	0.2		W
	A	window sill	0.1		W
	A	+ comp	-0.1		M
	A	Radiator	1.4	Y	M
	C	Door + Frame	0.0		W
Stairwell	ABCD	Wall	0.0		B
outside 350		Floor	0.0		C
		Hand rail	0.4		M
		Newel Post	1.3	Y	W
		Balluster	1.3	Y	M
		Riser	0.5		M
		Stringer	1.3	Y	M
	ABCD	Wall	0.8		P
	D	Dbl Door	0.2		M

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Project #_____ Address _____ Date_____

Room	Side	Surface	Pb by XRF	Defective	Substrate*
317	ABCD	Wall Paneling	0.0		W
		Wall	0.3		D
	C	Radiator	0.0		M
	A	Door	0.3		M
Stairwell 4th	ABCD	wall	-0.2		B
& 7 & 9		Door Frame	8.3	Y	M
		L	0.1		W
		Door	0.2		M
		Radiator	3.1	Y	M
		Floor	0.5		C
		Stair Components	0.3-0.5		M
324	ABCD	wall	0.4		P
		Ceiling	1.8	Y	P
		Safe	7.3	Y	M
		Radiator	0.4		M
Auditorium	AB D	walls	0.8-1.2	Y	P
upper	ABCD	Crown Moulding	0.4-0.6		P
		Floor	0.0		W
		Chairs	-0.1-0.3		W/M
320, 313, 311,	ABCD	walls	0.2-1.0	Y	P
318, 309, 316,		Door + Frame	0.4		W
& 314		Radiator	1.5	Y	M
		CR & BB	0.0		W
309B	ABCD	walls	0.0-0.1		P
		Floor	-0.1		W
		Door & Frame	0.1		W
Hall outside	ABCD	Wall	0.1-1.1	Y	P
309B		Door + Frame	0.1		W
		chair Rail	0.1		W
		Lockers	0.4		M
312	ABCD	walls	0.0-0.6		P
		Chair Rail	-0.1		W
	D	window sill	0.0		W
	D	+ comp	0.1		M
	D	Radiator	1.3	Y	M
310, 308, 307,	ABCD	walls	0.7-6.4	Y	P
305, 304, 303,		Chair Rail & BB	0.0		W
302, & 301		Radiator	0.0-1.2	Y	M
		window sill	0.0		W

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Project #_____ Address _____ Date_____

Room	Side	Surface	Pb by XRF	Defective	Substrate*
Boys Room near	ABCD	Walls Ceramic	0.0-0.3		Ceramic
307	↓	↓	0.1		Block
	B	Radiator	-0.1		M
306	ABCD	wall	0.2-7.0	Y	P
	↓	CR + BB	0.1		W
	D	Radiator	1.3	Y	M
	B	Door + Frame	-0.1		
Girls Room	ABCD	Walls ceramic	-0.1		Ceramic
Near 303	↓	↓	-0.1		Block
	B	Radiator	0.1		M
	B	window sill	0.3		W
301A	ABCD	walls	0.0-0.3		D
	ABC	shelves	NC		W
	D	Door + Frame	0.1		W
300A	ABCD	Walls upper	0.1-0.7		P
	↓	L lower	3-8	Y	P
	D	Radiator	1.3	Y	M
	A	Shelves	0.0		W
		Floor	0.3		W
300	ABCD	walls lower	0.0-0.6		P
	↓	↓ upper	6.0	Y	P
	C	window sill	-0.1		W
	C	↓ Comp	0.1		M
	D	Door + Frame	-0.1		W
	A	Radiator	1.2	Y	M
Auditorium /	ABCD	walls upper	0.0-0.2		P
Stage	↓	↓ lower	0.1		P
	3D	Radiator cover	0.0		M
	BD	Radiator	1.1	Y	M
		lower ceiling	0.0		P
	ABCD	CR	0.1		W
	↓	BB	0.1-0.5		W
		Stage Floor	0.0		W
	BD	Stage Door + Frame	0.1		W
	BCD	stage wall	-0.1-0.5		P
	C	Radiator stage	1.1	Y	M
		Spiral stair	1.0	Y	M
		Decorative Plaster	0.4-0.7		P
	ABCD	Backstage walls	0.5		P

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Project #_____ Address _____ Date_____

Room	Side	Surface	Pb by XRF	Defective	Substrate*
Hall From Cafe	A C	wall	0.1		M
To Auditorium		Floor	-0.1		C
	B D	Door	0.0		W
	B D	& Frame	0.0		M
	C	Radiator	0.1		M
		Handrail	0.6		M
Cafe	A B C D	wall	4.0	Y	B
	↓	↓	-0.1		B
		Vert columns	0.1		
		Handrail	0.7		M
	C	Block wall	3.3	Y	Block
		Door & Frame	-0.1		M
Kitchen	A B C D	wall	0.1-0.7		B
		Ceiling	0.0		P
	D	Door & Frame	0.3		M
HS Gym	A B C D	wall	0.1		B
	A C	wall	0.2		Block
	B D	Bleachers	0.3		W
	B D	Support Beams	1.3	Y	M
		Floor	0.0		W
	B	~~Vent~~ Ducts	0.5		M
	C	Stringer to bleachers	1.4	Y	M
	C	Riser ↓	1.5	Y	M
	A C	Bleachers	0.0		W
	A C	upper Floor	0.1		C
		Door Frame	0.0		M
HS Gym Entry	A B C D	Wall	0.4		Block
		Radiator	0.2		M
HS Gym Baths	A B C D	walls	0.0		Block
		Stalls	0.1		M
		Ceiling	-0.1		W
259B+C	A B C D	Wall	0.2		B
Stairwells To	A B C D	wall Lower	1.1	Y	Block
Bleachers	↓	↓ upper	0.1		↓
		stringer	1.3	Y	M
Boys locker	A B C D	Tan Block wall	0.0		Block
Room 9	↓	Green ↓	1.1	Y	B ↓
Girls		Door Frame	0.1		M
		Ceiling	0.3		P

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Project #_____ Address _____ Date_____

Room	Side	Surface	Pb by XRF	Defective	Substrate*
		Vert column	0.5		M
		lockers	0.0		M
452, 453, 451,	ABCD	~~ABCD~~ wall	0.0-0.3		P
~450		CR + BB	-0.1		W
		Radiator	1.7	Y	M
		ceiling	0.0		P
		Door	0.0		W
		↓ Frame	0.0		W
		window sill	0.0		W
		↓ components	-0.1		M
Hall outside	ABCD	wall	0.3		P
450		Door & Frame	0.1		W
		lockers	-0.1		M
419	ABCD	wall lower	1.9	Y	P
	↓	↓ upper	0.5		P
		CR + BB	-0.1		W
		Door + Frame	0.1		M
		Radiator	1.8	Y	M
424	ABCD	wall	1.0	Y	P
	C	Hand rail	3.0	Y	M
	A	Radiator	1.9	Y	M
	A	window sill	-0.1		W
417, 415, 413	ABCD	wall upper	0.6		P
	↓	↓ lower	2.8	Y	P
		CR + BB	0.1		W
		Door + Frame	-0.1		W
		Stairs	0.1		W
		window sill	0.0		W
		↓ comp	0.1		M
		Radiator	1.9	Y	M
422, 411, 420,	ABCD	upper wall	0.7-1.0	Y	P
409, 418, 416,	↓	lower ↓	2.4-7.0	Y	P
412, 407, 410,		BB + CR	0.1		W
405, 403, 406,		Door + Frame	0.0		W
404, 401, 400		Radiator	0.1-1.7	Y	M
		window sill	0.1		W
		↓ Comp	0.1		M
409B + A	ABCD	wall	0.2		P
		Floor	-0.1		W

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EnviroScience, LLC

Project #_____ Address _____ Date_____

Room	Side	Surface	Pb by XRF	Defective	Substrate*
Hall outside	ABCD	wall upper	0.5 - 1.0	Y	P
418	L	L Lower	6.8	Y	P
		CR	0.1		W
		Locking	0.0		M
		Door + Frame	0.1		W
		ceiling	0.3		P
414	ABCD	wall upper	0.6 - 1.1	Y	P
	L	L lower	>9.9	Y	P
		Radiator	1.3	Y	M
		window sill	-0.1		W
		L Comp	0.1		M

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Appendix E

TCLP Lead Laboratory Analytical Results and Data Verification Documentation

Modified Tier II
Data Validation Narrative

Project: 20100607.A20
Site Investigation/Targeted Brownfields Assessment
Former Woonsocket Middle School

ESS Laboratory Project Number:	E108E35
Date Samples Received at Laboratory:	August 19, 2011
Date of Review:	November 7, 2012

Five composited building materials sample, including one duplicate sample, were collected and submitted to Premier Laboratory (Premier) and analyzed for lead via the Toxicity Characteristic Leaching Procedure (TCLP) by United States Environmental Protection Agency (USEPA) Method 1311/6010.

Dedicated sampling equipment was utilized, so equipment blanks and field blanks were not collected during these sampling activities. The samples were analyzed within the method-specific holding times.

No analytical method non-conformances were reported in this analytical report. The relative percent difference (RPD) calculated for the primary duplicate pair was 76%. The elevated RPD for the primary-duplicate sample pair was most likely attributable to sample heterogeneity and/or matrix interference.

Analytical results were compared to the USEPA Resource Conservation and Recovery Act (RCRA) hazardous waste criterion for TCLP lead of 5.0 milligrams per liter. For all five samples, the laboratory reporting limits were low enough to allow direct comparison to this criterion.

FUSS & O'NEILL

INITIAL DATE: OCTOBER 2011
REVISION DATE: FEBRUARY 2012
REVISION: 1.0

E108E35

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
MODIFIED TIER I COMPLETENESS CHECKLIST

	YES	NO
1. SAMPLING AND FIELD MEASUREMENTS:		
Field measurement calibration records	☐	☐ N/A
Groundwater field measurements (if applicable)	☐	☐ ↓
Soil sampling field measurements (if applicable)	☐	☐
Sediment sampling field measurements (if applicable)	☐	☐
Surface water sampling field measurements (if applicable)	☐	☐
Low-flow sampling field measurements (if applicable)	☐	☐
Documentation of field activities	☒	☐
Sample numbering and labeling	☒	☐
Chain-of-Custody records	☒	☐
Trip blanks	☐	☐ N/A
Duplicate samples	☒	☐
Equipment blanks	☐	☐ N/A
Split samples (if any)	☐	☐ ↓
2. LABORATORY MEASUREMENTS:		
Trip blanks	☐	☐ N/A
Instrument blanks	☒	☐
Laboratory control samples	☒	☐
Duplicates samples	☒	☐
Equipment blanks	☐	☐ N/A
Matrix spike/matrix spike duplicates	☐	☐ ↓
Analysis type	☒	☐
Chain-of-Custody records	☒	☐
Surrogate recoveries	☐	☐ N/A
Sample Project Narratives	☒	☐
Split samples (if any)	☐	☐ N/A
TOTAL:	10	—

PERCENT COMPLETE: 100 %

INITIAL DATE: OCTOBER 2011
REVISION DATE: FEBRUARY 2012
REVISION: 1.0

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

	YES	NO	COMMENTS
1. SAMPLING AND FIELD MEASUREMENTS:			
Field measurement calibration records			
pH - ± 0.3 pH units	☐	☐	N/A
S.C. - ± 5% of calibration solution, within?			
calibration range	☐	☐	
Temperature - ± 0.5 °C	☐	☐	
D.O. - ± 5% of calibration solution	☐	☐	
Groundwater field measurements (if applicable)			
Water depth measured to within 0.01 ft.?	☐	☐	
Soil sampling field measurements (if applicable)			
OVM - ± 2 ppm	☐	☐	
OVA - ± 2 ppm	☐	☐	
Sediment sampling field measurements (if applicable)			
Descriptive information recorded?	☐	☐	
Surface water sampling field measurements (if applicable)			
Water depth measured to within 0.01 ft.?	☐	☐	
Low-flow sampling field measurements (if applicable)			
S.C. - ± 10%	☐	☐	
pH - ± 0.2 pH units	☐	☐	
Temperature - ± 10%	☐	☐	
Turbidity - ±5 NTU	☐	☐	
Documentation of field activities			
Site-specific information documented in field notebook?	☒	☐	
Field data sheets completed?	☒	☐	
Sample numbering and labeling			
Sample numbering conforms to sample I.D. system identified in QAPP?	☐	☒	sample numbering specific to building materials
Chain-of-Custody records			
Chain-of-Custody forms completed?	☒	☐	

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST
(Continued)

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

	YES	NO	COMMENTS
Trip blanks			
Trip blanks submitted, one per day?	☐	☐	N/A
Any compounds detected in trip blanks?	☐	☐	↓
Duplicate samples			
Field duplicates performed, 1/20 samples?	☒	☐	
Duplicates performed on 10% of samples screened for explosives?	☐	☐	N/A
Is percent difference within 30% for all field parameters?	☐	☐	
Equipment blanks			
Equipment blanks submitted, one per sampling day?	☐	☐	
Any compounds detected in equipment blank?	☐	☐	
Split samples (if any)			
Split samples collected?	☐	☐	
Is percent difference within 30% for split samples?	☐	☐	↓

2. LABORATORY MEASUREMENTS:

Trip blanks			
Trip blanks submitted, one per day?	☐	☐	N/A
Any compounds detected in trip blanks?	☐	☐	↓
Instrument blanks**	☒	☐	
Laboratory control samples**	☒	☐	
Duplicates samples**	☒	☐	
Equipment blanks**	☐	☐	N/A
Matrix spike/matrix spike duplicates**	☐	☐	↓
Analysis type	☒	☐	
Chain-of-Custody records	☒	☐	
Surrogate recoveries**	☐	☐	N/A
Sample Project Narratives	☒	☐	
Split samples (if any)**	☐	☐	N/A
Most recent EPA WP-PE sample results**	☐	☐	↓

Premier
Laboratory, Inc

61 Louisa Viens Drive
Dayville, CT 06241
Fax: 860-774-2689
Phone: 860-774-6814
Toll-Free: 800-334-0103

ANALYTICAL DATA REPORT

prepared for:

Fuss & O'Neill, Inc.
317 Iron Horse Way
Suite 204
Providence, RI 02908
Attn: Pat Dowling

Report Number: E108E35
Project: 20100607.A20/ Former Middle School

Received Date: 08/19/2011
Report Date: 08/26/2011

Premier Laboratory, Inc
Authorized Signature

Certified and Compliant with:
CT (PH-0465), EPA (CT00008), MA (M-CT008), ME (CT0050), NH (2020), NJ (CT007), NY (11549), PA (68-04413), RI (LAO00300), UCMR2 (CT00008), VT (VT11549)

101-000000315976

Premier
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61 Louisa Viens Drive
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Fax: 860-774-2689
Phone: 860-774-6814
Toll-Free: 800-334-0103

Report No: E108E35
Client: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

CASE NARRATIVE / METHOD CONFORMANCE SUMMARY

Premier Laboratory, Inc received five samples from Fuss & O'Neill on 08/19/2011. The samples were analyzed for the following list of analyses:

TCLP Metals by SW-846
6010B[3000]

Non-Conformances:

Work Order:

None

Sample:

None

Analysis:

None

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E35
Date Received: 08/19/2011 15:46

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Parameter	Result	DL	Units	Completed	By	Dilution
(1) 818DD-TCLP-01						
Date Collected: 08/18/2011 10:00 **Matrix: Other**						
Metals by ICP by SW-846 6010B, TCLP						
Lead	0.050	0.040	mg/L	08/26/2011 10:14	NJB	
(2) 818DD-TCLP-02						
Date Collected: 08/18/2011 11:00 **Matrix: Other**						
Metals by ICP by SW-846 6010B, TCLP						
Lead	0.080	0.040	mg/L	08/26/2011 10:16	NJB	
(3) 818DD-TCLP-03						
Date Collected: 08/18/2011 12:00 **Matrix: Other**						
Metals by ICP by SW-846 6010B, TCLP						
Lead	0.79	0.040	mg/L	08/26/2011 10:18	NJB	
(4) 818DD-TCLP-04						
Date Collected: 08/18/2011 12:30 **Matrix: Other**						
Metals by ICP by SW-846 6010B, TCLP						
Lead	0.44	0.040	mg/L	08/26/2011 10:21	NJB	
(5) 818DD-TCLP-05						
Date Collected: 08/18/2011 13:00 **Matrix: Other**						
Metals by ICP by SW-846 6010B, TCLP						
Lead	0.18	0.040	mg/L	08/26/2011 10:23	NJB	

E108E35 TJC

317 IRON HORSE WAY

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- ☐ 50 Redfield Street, Suite 100, Boston, MA 02122
- ☐ ~~275 Promenade Street, Suite 350~~, Providence, RI 02908
- ☐ 80 Washington Street, Suite 301, Poughkeepsie, NY 12601

CHAIN-OF-CUSTODY RECORD 24401

Turnaround
☐ 1 Day* ☐ 3 Days* ☐ Other _____ (days)
☐ 2 Days* ☒ Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
FORMER WOONSOCKET M.S.	WOONSOCKET, RI	20100607.A20	PREMIER

REPORT TO: R. MAY / P. DOWLING
INVOICE TO: ~~R. MAY / P. DOWLING~~ Cynthia Cochrancosco
P.O. NO.: 914 20100607.A20
Sampler's Signature: Date: 8/18/11

Source Codes:
MW=Monitoring Well PW=Potable Water S=Soil W=Waste
SW=Surface Water T=Treatment Facility B=Sediment A=Air
X=Other BUILDING MATERIALS

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	TCLP → LEAD: ANALYSIS & [3.1] EXTRACTION 6010B	Soil VOA Vial, [ ] methanol	Soil VOA Vial, [ ] water	Glass Soil Container ( ) oz	Glass Soil Container ( ) oz	Other: 1 GAL BAG	Water VOA Vial, [ ] As is [ ] HCl	Glass Amber ( ) ml, [ ] As is [ ] H2SO4	Plastic - As is, [ ] 250 ml [ ] 500 [ ] 1000 ml	Plastic - H2SO4, [ ] 250 ml [ ] 500 ml	Plastic - HNO3, 250 ml [ ] Filtered [ ] Unfiltered	Plastic - NaOH, 250 ml	Comments
1	✓	✓	✓		818DD-TCLP-01	X	18AUG11	1000	X					X						
2	✓				818DD-TCLP-02	X	18AUG11	1100	X					X						
3	✓				818DD-TCLP-03	X	18AUG11	1200	X					X						
4	✓				818DD-TCLP-04	X	18AUG11	1230	X					X						
5	✓				818DD-TCLP-05	X	18AUG11	1300	X					X						DUPLICATE

Transfer Number	Relinquished By	Accepted By	Date	Time
1		FED Fridge	8/18/11	1700
2	FED Fridge		8/19/11	0900
3	G.C.	G.C.	8/19/11	0900
4	G.C.	Michael Noble	8/17/11	15:46

Reporting and Detection Limit Requirements: 5 mg/L

Additional Comments: please see attached memo/checklist

2.2°C

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
INORGANIC COMPOUNDS

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**

		YES	NO	COMMENTS
1.	SDG Project Narratives	☑	☐	
2.	Inorganic Analysis Data Sheet	☑	☐	
3.	Initial and Continuing Calibration Verification	☑	☐	
4.	CRDL Standard for AA and ICP	☑	☐	
5.	Blanks	☑	☐	
6.	ICP Interference Check Sample	☑	☐	
7.	Spike Sample Recovery	☑	☐	
8.	Post Digest Spike Sample Recovery	☐	☑	NA
9.	Duplicates	☑	☐	
10.	Laboratory Control Sample	☑	☐	
11.	Standard Addition Results	☐	☑	NA
12.	ICP Serial Dilutions	☐	☑	NA
13.	Instrument Detection Limits, Quarterly	☑	☐	Annual
14.	ICP Interelement Correction Factors, Annually	☑	☐	
15.	ICP Linear Ranges Quarterly	☑	☐	
16.	Preparation Log	☑	☐	
17.	Analysis Run Log	☑	☐	
18.	ICP Raw Data	☑	☐	
19.	Furnace AA Raw Data	☐	☑	NA
20.	Mercury Raw Data	☐	☑	NA
21.	Percent Solids Calculations	☐	☑	NA
22.	Digestion Logs	☑	☐	
23.	EPA Shipping/Receiving Records			
	(List all individual records)	☐	☐	
	Chain-of Custody Records	☑	☐	
	Sample Log-In sheet	☑	☐	LIMS
24.	Miscellaneous Shipping/Receiving Records	☐	☑	
	(List all individual records)			

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
INORGANIC COMPOUNDS
(Continued)

		PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**		
		YES	NO	COMMENTS
25.	Internal Lab Sample Transfer Records and Tracki ng Sheets (Describe or List) NA			
26.	Internal Original Sample Preparation and analysis Records (Describe or List	☐	☐	
	Preparation Records	☑	☐	logbook
	Analysis Records	☑	☐	electronic
	Description	☐	☐	
27.	Other Records (Describe or List)			
28.	Comments:			

** See laboratory Quality Assurance Plan for limits.

Completed by: Nicole Bates (Lab) (Signature) Nicole Bates (Printed Name/Title) 10/31/12 Date

I certify that the above information is true and accurate. I further certify that all laboratory results associated with the above analyses will be made available for review for seven (7) years following certification of this document.

Certified by: Montgomery (Lab) (Signature) L. Montgomery (Printed Name/Title) 10/31/12 Date

Appendix F

Lead Paint Chip Laboratory Analytical Results and Data Verification Documentation

Modified Tier II
Data Validation Narrative

Project: 20100607.A20
Site Investigation/Targeted Brownfields Assessment
Former Woonsocket Middle School

Premeir Laboratory Project Number:	E108E34
Date Samples Received at Laboratory:	August 19, 2011
Date of Review:	November 7, 2012

Eleven paint samples, including one duplicate sample, were collected and submitted to Premier Laboratory (Premier) for analysis of total lead concentration by United States Environmental Protection Agency (USEPA) Method 6010.

Dedicated sampling equipment was utilized, so equipment blanks and field blanks were not collected during these sampling activities. The samples were analyzed within the method-specific holding times.

No non conformances were noted in this analytical report.

The RPDs calculated for the primary-duplicate sample pair was approximately 50%. The elevated RPDs are likely attributed to sample heterogeneity and/or matrix interference.

Analytical results for the building materials samples were compared to the Rhode Island Department of Health definition of lead-containing paint, which is 150 milligrams per kilogram (mg/kg) for building occupancy. Laboratory reporting limits were low enough to allow a direct comparison to this criteria.

FUSS & O'NEILL

INITIAL DATE: OCTOBER 2011
REVISION DATE: FEBRUARY 2012
REVISION: 1.0

E108E34

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
MODIFIED TIER I COMPLETENESS CHECKLIST

	YES	NO	
1. SAMPLING AND FIELD MEASUREMENTS:			
Field measurement calibration records	☒	☐	
Groundwater field measurements (if applicable)	☐	☐	N/A
Soil sampling field measurements (if applicable)	☐	☐	↓
Sediment sampling field measurements (if applicable)	☐	☐	
Surface water sampling field measurements (if applicable)	☐	☐	
Low-flow sampling field measurements (if applicable)	☐	☐	
Documentation of field activities	☒	☐	
Sample numbering and labeling	☒	☐	
Chain-of-Custody records	☒	☐	
Trip blanks	☐	☐	N/A
Duplicate samples	☒	☐	
Equipment blanks	☐	☐	N/A
Split samples (if any)	☐	☐	↓
2. LABORATORY MEASUREMENTS:			
Trip blanks	☐	☐	N/A
Instrument blanks	☒	☐	
Laboratory control samples	☒	☐	
Duplicates samples	☒	☐	1
Equipment blanks	☐	☐	N/A
Matrix spike/matrix spike duplicates	☐	☐	↓
Analysis type	☒	☐	
Chain-of-Custody records	☒	☐	
Surrogate recoveries	☐	☐	N/A
Sample Project Narratives	☒	☐	
Split samples (if any)	☐	☐	N/A
TOTAL:	11	—	

PERCENT COMPLETE: 100 %

FUSS & O'NEILL

INITIAL DATE: OCTOBER 2011
REVISION DATE: FEBRUARY 2012
REVISION: 1.0

E108 E34

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

1. SAMPLING AND FIELD MEASUREMENTS:	YES	NO	COMMENTS
Field measurement calibration records			
pH - ± 0.3 pH units	☐	☐	N/A
S.C. - ± 5% of calibration solution, within?			
calibration range	☐	☐	
Temperature - ± 0.5 °C	☐	☐	
D.O. - ± 5% of calibration solution	☐	☐	
Groundwater field measurements (if applicable)			
Water depth measured to within 0.01 ft.?	☐	☐	
Soil sampling field measurements (if applicable)			
OVM - ± 2 ppm	☐	☐	
OVA - ± 2 ppm	☐	☐	
Sediment sampling field measurements (if applicable)			
Descriptive information recorded?	☐	☐	
Surface water sampling field measurements (if applicable)			
Water depth measured to within 0.01 ft.?	☐	☐	
Low-flow sampling field measurements (if applicable)			
S.C. - ± 10%	☐	☐	
pH - ± 0.2 pH units	☐	☐	
Temperature - ± 10%	☐	☐	
Turbidity - ±5 NTU	☐	☐	
Documentation of field activities			
Site-specific information documented in field notebook?	☒	☐	
Field data sheets completed?	☒	☐	
Sample numbering and labeling			
Sample numbering conforms to sample I.D. system identified in QAPP?	☐	☒	numbering system specific to building meter
Chain-of-Custody records			
Chain-of-Custody forms completed?	☒	☐	

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST
(Continued)

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

	YES	NO	COMMENTS
Trip blanks			
Trip blanks submitted, one per day?	☐	☐	N/A
Any compounds detected in trip blanks?	☐	☐	↓
Duplicate samples			
Field duplicates performed, 1/20 samples?	☒	☐	
Duplicates performed on 10% of samples screened for explosives?	☐	☐	N/A
Is percent difference within 30% for all field parameters?	☐	☐	
Equipment blanks			
Equipment blanks submitted, one per sampling day?	☐	☐	
Any compounds detected in equipment blank?	☐	☐	
Split samples (if any)			
Split samples collected?	☐	☐	
Is percent difference within 30% for split samples?	☐	☐	↓

2. LABORATORY MEASUREMENTS:

Trip blanks			
Trip blanks submitted, one per day?	☐	☐	N/A
Any compounds detected in trip blanks?	☐	☐	↓
Instrument blanks**	☒	☐	
Laboratory control samples**	☒	☐	
Duplicates samples**	☒	☐	
Equipment blanks**	☐	☐	N/A
Matrix spike/matrix spike duplicates**	☐	☐	↓
Analysis type	☒	☐	
Chain-of-Custody records	☒	☐	
Surrogate recoveries**	☐	☐	N/A
Sample Project Narratives	☒	☐	
Split samples (if any)**	☐	☐	N/A
Most recent EPA WP-PE sample results**	☐	☐	↓

Premier
Laboratory, Inc

61 Louisa Viens Drive
Dayville, CT 06241
Fax: 860-774-2689
Phone: 860-774-6814
Toll-Free: 800-334-0103

ANALYTICAL DATA REPORT

prepared for:

Fuss & O'Neill, Inc.
317 Iron Horse Way
Suite 204
Providence, RI 02908
Attn: Pat Dowling

Report Number: E108E34
Project: 20100607.A20/ Former Middle School

Received Date: 08/19/2011
Report Date: 08/26/2011

Premier Laboratory, Inc
Authorized Signature

Certified and Compliant with:
CT (PH-0465), EPA (CT00008), MA (M-CT008), ME (CT0050), NH (2020), NJ (CT007), NY (11549), PA (68-04413), RI (LAO00300), UCMR2 (CT00008), VT (VT11549)

101-000000315974

Premier
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61 Louisa Viens Drive
Dayville, CT 06241
Fax: 860-774-2689
Phone: 860-774-6814
Toll-Free: 800-334-0103

Report No: E108E34
Client: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

CASE NARRATIVE / METHOD CONFORMANCE SUMMARY

Premier Laboratory, Inc received 11 samples from Fuss & O'Neill on 08/19/2011. The samples were analyzed for the following list of analyses:

Trace Metals by 6010B
6010B[3000]

Non-Conformances:

Work Order:

None

Sample:

None

Analysis:

None

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E34
Date Received: 08/19/2011 15:46

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Parameter	Result	DL	Units	Completed	By	Dilution
(1) 812DD-01						
Date Collected: 08/12/2011 13:00 **Matrix: Other**						
Trace Metals by 6010B						
Lead	3000	0.10	mg/kg	08/25/2011 12:46	NJB	
(2) 812DD-02						
Date Collected: 08/12/2011 13:10 **Matrix: Other**						
Trace Metals by 6010B						
Lead	640	0.10	mg/kg	08/25/2011 12:48	NJB	
(3) 812DD-03						
Date Collected: 08/12/2011 13:15 **Matrix: Other**						
Trace Metals by 6010B						
Lead	260	0.10	mg/kg	08/25/2011 12:51	NJB	
(4) 812DD-04						
Date Collected: 08/12/2011 13:20 **Matrix: Other**						
Trace Metals by 6010B						
Lead	6.0	0.10	mg/kg	08/25/2011 12:53	NJB	
(5) 812DD-05						
Date Collected: 08/12/2011 13:25 **Matrix: Other**						
Trace Metals by 6010B						
Lead	6600	0.50	mg/kg	08/25/2011 13:57	NJB	5
(6) 812DD-06						
Date Collected: 08/12/2011 13:30 **Matrix: Other**						
Trace Metals by 6010B						
Lead	1.4	0.10	mg/kg	08/25/2011 13:53	NJB	
(7) 812DD-07						
Date Collected: 08/12/2011 13:35 **Matrix: Other**						
Trace Metals by 6010B						
Lead	9200	0.50	mg/kg	08/25/2011 14:00	NJB	5
(8) 812DD-08						
Date Collected: 08/12/2011 13:40 **Matrix: Other**						
Trace Metals by 6010B						
Lead	30	0.10	mg/kg	08/25/2011 13:11	NJB	
(9) 812DD-09						
Date Collected: 08/12/2011 13:45 **Matrix: Other**						
Trace Metals by 6010B						
Lead	2300	0.10	mg/kg	08/25/2011 13:13	NJB	

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E34
Date Received: 08/19/2011 15:46

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Parameter	Result	DL	Units	Completed	By	Dilution
(10) 812DD-10						
Date Collected: 08/12/2011 13:55 **Matrix: Other**						
Trace Metals by 6010B						
Lead	18	0.10	mg/kg	08/25/2011 13:16	NJB	
(11) 812DD-11						
Date Collected: 08/12/2011 14:00 **Matrix: Other**						
Trace Metals by 6010B						
Lead	10	0.10	mg/kg	08/25/2011 13:18	NJB	

E108E34

TGG

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- ☐ 50 Redfield Street, Suite 100, Boston, MA 02122
- ☒ ~~275 Promenade Street, Suite 350~~, Providence, RI 02908
- ☐ 80 Washington Street, Suite 301, Poughkeepsie, NY 12601

CHAIN-OF-CUSTODY RECORD 24402

Turnaround
☐ 1 Day* ☐ 3 Days* ☐ Other _____ (days)
☐ 2 Days* ☒ Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
FORMER WOONSOCKET M.S.	WOONSOCKET, RI	20100607.A20	PREMIER

REPORT TO: R. MAY / P. DOWLING
INVOICE TO: ~~R. MAY / P. DOWLING~~ Cynthia CienFrancesco
P.O. NO.: 9142010060 7.A20
Sampler's Signature: Date: 8/18/11

Source Codes:
MW=Monitoring Well PW=Potable Water S=Soil W=Waste
SW=Surface Water T=Treatment Facility B=Sediment A=Air
X=Other PAINT CHIPS

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	Analysis Request: LEAD (TOTAL); PAINT CHIPS 6010B > ANALYSIS	Containers: Soil VOA Vial, [ ] methanol	Soil VOA Vial, [ ] water	Glass Soil Container [ ] $Na(SO_4)_2$	Glass Soil Container ( ) oz	Other:	Water VOA Vial, [ ] As is [ ] HCl	Glass Amber ( ) ml, [ ] As is [ ] H_2SO_4	Plastic - As is, [ ] 250 ml [ ] 500 [ ] 1000 ml	Plastic - H_2SO_4, [ ] 250 ml [ ] 500 ml	Plastic - HNO_3, 250 ml [ ] Filtered [ ] Unfiltered	Plastic - NaOH, 250 ml	Comments
1	✓	✓	✓		8120D-01	X	12AUG11	1300	X							X					
2	✓	|	|		8120D-02	X	12AUG11	1310	X							X					
3	✓	|	|		8120D-03	X	12AUG11	1315	X							X					
4	✓	|	|		8120D-04	X	12AUG11	1320	X							X					
5	✓	|	|		8120D-05	X	12AUG11	1325	X							X					
6	✓	|	|		8120D-06	X	12AUG11	1330	X							X					
7	✓	|	|		8120D-07	X	12AUG11	1335	X							X					
8	✓	|	|		8120D-08	X	12AUG11	1340	X							X					
9	✓	|	|		8120D-09	X	12AUG11	1345	X							X					
10	✓	|	✓		8120D-10	X	12AUG11	1355	X							X					

Transfer Number	Relinquished By	Accepted By	Date	Time
1		FED Fridge	8/18/11	1700
2	FED Fridge		8/19/11	0900
3		G.C.	8/19/11	0900
4	G.C.		8/19/11	15:46

Reporting and Detection Limit Requirements: 150 ppm

Additional Comments: please see attached memo/checklist

7.7°

PP01

E108E84

TJC

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- ☐ 78 Interstate Drive, West Springfield, MA 01089
- ☐ 50 Redfield Street, Suite 100, Boston, MA 02122
- ☒ ~~275 Promenade Street, Suite 350~~, Providence, RI 02908
- ☐ 80 Washington Street, Suite 301, Poughkeepsie, NY 12601

CHAIN-OF-CUSTODY RECORD 24403

Turnaround
☐ 1 Day* ☐ 3 Days* ☐ Other _____ (days)
☐ 2 Days* ☒ Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
FORMER WOONSOCKET M.S.	WOONSOCKET, RI	20100607.A20	PREMIER

REPORT TO: R. MAY / P. DOWLING
INVOICE TO: ~~R. MAY / P. DOWLING~~ Cynthia Gonsalves
P.O. No.: 9142010060 7.A20
Sampler's Signature: [signature] Date: 8/18/11

Source Codes:
MW=Monitoring Well PW=Potable Water S=Soil W=Waste
SW=Surface Water T=Treatment Facility B=Sediment A=Air
X=Other PAINT CHIPS

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	LEAD (TOTAL) ↳ PAINT CHIPS Δ 6010B → ANALYSIS	Soil VOA Vial, [ ] methanol	Soil VOA Vial, [ ] water	Glass Soil Container ( ) oz	Glass Soil Container ( ) oz	Other:	Water VOA Vial, [ ] As is [ ] HCl	Glass Amber ( ) ml, [ ] As is [ ] H_2SO_4	Plastic - As is, [ ] 250 ml [ ] 500 [ ] 1000 ml	Plastic - H_2SO_4, [ ] 250 ml [ ] 500 ml	Plastic - HNO_3, 250 ml [ ] Filtered [ ] Unfiltered	Plastic - NaOH, 250 ml	Comments
11	✓	✓	✓		812DD-11	X	12AUG11	1400	X							X					DUPLICATE

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	FED Fridge	8/18/11	1700
2	FED Fridge	[signature]	8/19/11	0900
3	[signature] G.C	[signature]	8/19/11	0700
4	[signature] G.C	Michael Mobley	8/19/11	15:46

Reporting and Detection Limit Requirements: 150 ppm

Additional Comments: please see attached memo/checklist

3.2°C

PPOZ

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
INORGANIC COMPOUNDS

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**

		YES	NO	COMMENTS
1.	SDG Project Narratives	☑	☐	
2.	Inorganic Analysis Data Sheet	☑	☐	
3.	Initial and Continuing Calibration Verification	☑	☐	
4.	CRDL Standard for AA and ICP	☑	☐	
5.	Blanks	☑	☐	
6.	ICP Interference Check Sample	☑	☐	
7.	Spike Sample Recovery	☑	☐	
8.	Post Digest Spike Sample Recovery	☐	☑	NA
9.	Duplicates	☑	☐	
10.	Laboratory Control Sample	☑	☐	
11.	Standard Addition Results	☐	☑	NA
12.	ICP Serial Dilutions	☐	☑	NA
13.	Instrument Detection Limits, Quarterly	☑	☐	Annual
14.	ICP Interelement Correction Factors, Annually	☑	☐	
15.	ICP Linear Ranges Quarterly	☑	☐	
16.	Preparation Log	☑	☐	
17.	Analysis Run Log	☑	☐	
18.	ICP Raw Data	☑	☐	
19.	Furnace AA Raw Data	☐	☑	NA
20.	Mercury Raw Data	☐	☑	NA
21.	Percent Solids Calculations	☐	☑	NA
22.	Digestion Logs	☑	☐	
23.	EPA Shipping/Receiving Records			
	(List all individual records)	☐	☑	
	Chain-of Custody Records	☑	☐	
	Sample Log-In sheet	☑	☐	LIMS
24.	Miscellaneous Shipping/Receiving Records	☐	☑	
	(List all individual records)			

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
INORGANIC COMPOUNDS
(Continued)

		PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**		
		YES	NO	COMMENTS
25.	Internal Lab Sample Transfer Records and Tracki ng Sheets (Describe or List) NA			
26.	Internal Original Sample Preparation and analysis Records			
	(Describe or List	☐	☐	
	Preparation Records	☑	☐	logbook
	Analysis Records	☑	☐	electronic
	Description	☐	☐	
27.	Other Records (Describe or List)			
28.	Comments:			

** See laboratory Quality Assurance Plan for limits.

Completed by: Nicole Bates (Lab) (Signature) Nicole Bates (Printed Name/Title) 10/31/12 Date

I certify that the above information is true and accurate. I further certify that all laboratory results associated with the above analyses will be made available for review for seven (7) years following certification of this document.

Certified by: Montgomery (Lab) (Signature) L. Montgomery (Printed Name/Title) 10/31/12 Date

FUSS & O'NEILL

Appendix G

PCB Laboratory Analytical Results and Data Verification Documentation

Modified Tier II
Data Validation Narrative

Project: 20100607.A20
Site Investigation/Targeted Brownfields Assessment
Former Woonsocket Middle School

Premier Laboratory Project Number:	E108E18
Date Samples Received at Laboratory:	August 19, 2011
Date of Review:	November 8, 2012

Thirty four building materials samples were collected and submitted to Premier Laboratory (Premier) for analysis of polychlorinated biphenyls (PCBs) by United States Environmental Protection Agency (USEPA) Method 8082, with extraction via Soxhlet Method 3540.

Dedicated sampling equipment was utilized, so equipment blanks and field blanks were not collected during these sampling activities. Samples were analyzed within the method-specific holding times. Since multiple samples of each homogeneous material type (typically 3 samples) were collected for quality control purposes, separate duplicate samples were not collected for analysis.

The case narrative included in the analytical report documented non-conformances associated with recovery of surrogate compounds utilized during the analyses. Recoveries of laboratory surrogate compounds associated with analyses of select materials were reported as 0% in the analytical report. Twelve samples were affected by this laboratory non-conformance. Premier attributed the low surrogate recoveries to difficulty inherent in the Soxhlet extraction and subsequent clean-up of the affected sample matrices. According to Premier, all samples were subjected to Soxhlet extraction (USEPA Method 3540C) using hexane as the solvent. The extracts were then treated with sulfuric acid per USEPA Method 3665A. In the case of the affected samples, the sample volumes completely dissolved into the hexane solvent and did not respond to multiple rounds of acid treatment, requiring dilutions of individual affected samples in the range of 10 to 50 times. The high level of dilution required for the affected samples led to the surrogate compounds being "diluted out." According to Premier, the raw analytical data indicated that surrogate compounds were detected in the affected samples, but at concentrations below the instrument calibration range (approximately 2%-4% recovery). Therefore, these surrogate recoveries were reported as 0%. To address the surrogate recovery difficulties described above, and to evaluate the PCB content of the substrate underlying the brown interior window caulk, Fuss & O'Neill conducted additional PCB sampling to resolve these quality control issues.

The case narrative also documented non conformances associated with elevated detection limits. Sixteen samples were reported to have elevated detections limits which exceeded the requested detection limit of one milligram per kilogram (mg/kg). No PCBs were reported above laboratory reporting limits in any of these samples. Premier attributed this to matrix interference. Because conclusions regarding compliance of these samples with applicable regulatory criteria could not be made, the additional PCB sampling mentioned above was conducted.

As noted previously, specific duplicate samples were not collected and analyzed as part of this sample group. However, multiple samples of each homogeneous material were collected for quality control

purposes to evaluate teh consistency of the matrices and PCB content. Since PCBs were not detected at concentrations above laboratory reporting limits in the majority of the samples, relative percent differences (RPDs) could not be calculated for most materials. Two samples of one three sample homogeneous material sample set (914110818-PCB-09A, 9B & 9C) were reported to contain PCB at concentrations greater than the laboratory reporting limit. The RPD between these two samples was 18%, within the typically acceptable range of RPDs (i.e. <30%). However, when these results were compared to the third sample in the data set which was not reported to contain a detectable concentration of PCB greater than the reporting limit, the resulting RPD was > 110%. These differences were attributed to the observed matrix interference, and the laboratory's difficulty in complying with the quality control requirements for these analyses. These questionable results were addressed by the supplemental sampling and analysis presented above.

Analytical results for the building materials samples were compared to regulatory limits established by USEPA under the Toxic Substances Control Act (TSCA). These limits included the regulated limit of 50 parts per million (ppm) and the potentially-regulated limit of 1 ppm. All laboratory reporting limits were low enough to allow direct comparison to these limits, with the exceptions noted above.

FUSS & O'NEILL

INITIAL DATE: OCTOBER 2011
REVISION DATE: FEBRUARY 2012
REVISION: 1.0

E10826.18

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
MODIFIED TIER I COMPLETENESS CHECKLIST

	YES	NO
1. SAMPLING AND FIELD MEASUREMENTS:		
Field measurement calibration records	☐	☐ N/A
Groundwater field measurements (if applicable)	☐	☐ ↓
Soil sampling field measurements (if applicable)	☐	☐
Sediment sampling field measurements (if applicable)	☐	☐
Surface water sampling field measurements (if applicable)	☐	☐
Low-flow sampling field measurements (if applicable)	☐	☐
Documentation of field activities	☒	☐
Sample numbering and labeling	☒	☐
Chain-of-Custody records	☒	☐
Trip blanks	☐	☐ N/A
Duplicate samples	☒	☐
Equipment blanks	☐	☐ N/A
Split samples (if any)	☐	☐ ↓
2. LABORATORY MEASUREMENTS:		
Trip blanks	☐	☐ N/A
Instrument blanks	☒	☐
Laboratory control samples	☒	☐
Duplicates samples	☒	☐
Equipment blanks	☐	☐ N/A
Matrix spike/matrix spike duplicates	☐	☐ ↓
Analysis type	☒	☐
Chain-of-Custody records	☒	☐
Surrogate recoveries	☒	☐
Sample Project Narratives	☒	☐
Split samples (if any)	☐	☐ N/A

TOTAL: 11 —

PERCENT COMPLETE: 100 %

FUSS & O'NEILL

INITIAL DATE: OCTOBER 2011
REVISION DATE: FEBRUARY 2012
REVISION: 1.0

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

1. SAMPLING AND FIELD MEASUREMENTS:	YES	NO	COMMENTS
Field measurement calibration records			
pH - ± 0.3 pH units	☐	☐	N/A
S.C. - ± 5% of calibration solution, within? calibration range	☐	☐	
Temperature - ± 0.5 °C	☐	☐	
D.O. - ± 5% of calibration solution	☐	☐	
Groundwater field measurements (if applicable)			
Water depth measured to within 0.01 ft.?	☐	☐	
Soil sampling field measurements (if applicable)			
OVM - ± 2 ppm	☐	☐	
OVA - ± 2 ppm	☐	☐	
Sediment sampling field measurements (if applicable)			
Descriptive information recorded?	☐	☐	
Surface water sampling field measurements (if applicable)			
Water depth measured to within 0.01 ft.?	☐	☐	
Low-flow sampling field measurements (if applicable)			
S.C. - ± 10%	☐	☐	
pH - ± 0.2 pH units	☐	☐	
Temperature - ± 10%	☐	☐	
Turbidity - ±5 NTU	☐	☐	
Documentation of field activities			
Site-specific information documented in field notebook?	☒	☐	
Field data sheets completed?	☒	☐	
Sample numbering and labeling			
Sample numbering conforms to sample I.D. system identified in QAPP?	☐	☒	numbering system specific to building materials
Chain-of-Custody records			
Chain-of-Custody forms completed?	☒	☐	

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST
(Continued)

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

	YES	NO	COMMENTS
Trip blanks			
Trip blanks submitted, one per day?	☐	☐	N/A
Any compounds detected in trip blanks?	☐	☐	↓
Duplicate samples			
Field duplicates performed, 1/20 samples?	☒	☐	
Duplicates performed on 10% of samples screened for explosives?	☐	☐	N/A
Is percent difference within 30% for all field parameters?	☐	☐	
Equipment blanks			
Equipment blanks submitted, one per sampling day?	☐	☐	
Any compounds detected in equipment blank?	☐	☐	
Split samples (if any)			
Split samples collected?	☐	☐	
Is percent difference within 30% for split samples?	☐	☐	

2. LABORATORY MEASUREMENTS:

Trip blanks			
Trip blanks submitted, one per day?	☐	☐	N/A
Any compounds detected in trip blanks?	☐	☐	↓
Instrument blanks**	☒	☐	
Laboratory control samples**	☒	☐	
Duplicates samples**	☒	☐	
Equipment blanks**	☐	☐	N/A
Matrix spike/matrix spike duplicates**	☐	☐	↓
Analysis type	☒	☐	
Chain-of-Custody records	☒	☐	
Surrogate recoveries**	☐	☒	several had 0% recovery
Sample Project Narratives	☒	☐	
Split samples (if any)**	☐	☐	N/A
Most recent EPA WP-PE sample results**	☐	☐	↓

Premier
Laboratory, Inc

61 Louisa Viens Drive
Dayville, CT 06241
Fax: 860-774-2689
Phone: 860-774-6814
Toll-Free: 800-334-0103

ANALYTICAL DATA REPORT

prepared for:

Fuss & O'Neill, Inc.
317 Iron Horse Way
Suite 204
Providence, RI 02908
Attn: Pat Dowling

Report Number: E108E18
Project: 20100607.A20/ Former Middle School

Received Date: 08/19/2011
Report Date: 09/16/2011

Premier Laboratory, Inc
Authorized Signature

Certified and Compliant with:
CT (PH-0465), EPA (CT00008), MA (M-CT008), ME (CT0050), NH (2020), NJ (CT007), NY (11549), PA (68-04413), RI (LAO00300), UCMR2 (CT00008), VT (VT11549)

101-000000315928

Premier
Laboratory, Inc

61 Louisa Viens Drive
Dayville, CT 06241
Fax: 860-774-2689
Phone: 860-774-6814
Toll-Free: 800-334-0103

Report No: E108E18
Client: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

CASE NARRATIVE / METHOD CONFORMANCE SUMMARY

Premier Laboratory, Inc received 34 samples from Fuss & O'Neill on 08/19/2011. The samples were analyzed for the following list of analyses:

PCBs by 8082 with Soxhlet Extraction 3540
8082[3540]

Non-Conformances:

Work Order:

None

Sample:

None

Analysis:

Sample 1, 914110818-PCB-01A, PCB's by 8082: The detection limits are elevated for the sample due to matrix interference. The requested detection limit of 1 mg/kg could not be achieved.

Sample 10, 914110818-PCB-04A, PCB's by 8082: The detection limits are elevated for the sample due to matrix interference.

Sample 13, 914110818-PCB-05A, PCB's by 8082: The detection limits are elevated for the sample due to matrix interference.

Sample 14, 914110818-PCB-05B, PCB's by 8082: The sample required a dilution which effectively diluted out the surrogate components.

Sample 15, 914110818-PCB-05C, PCB's by 8082: One surrogate spike was outside quality control limits for the sample due to matrix interference.

Sample 15, 914110818-PCB-05C, PCB's by 8082: The detection limits are elevated for the sample due to matrix interference.

Sample 18, 914110818-PCB-07A, PCB's by 8082: The detection limits are elevated for the sample due to matrix interference.

Sample 19, 914110818-PCB-07B, PCB's by 8082: The detection limits are elevated for the sample due to matrix interference.

Sample 2, 914110818-PCB-01B, PCB's by 8082: The detection limits are elevated for the sample due to matrix interference. The requested detection limit of 1 mg/kg could not be achieved.

Sample 20, 914110818-PCB-07C, PCB's by 8082: The detection limits are elevated for the sample due to matrix interference.

Premier
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Report No: E108E18
Client: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

CASE NARRATIVE / METHOD CONFORMANCE SUMMARY

Non-Conformances:

Analysis:

Sample 27, 914110818-PCB-10A, PCB's by 8082: The detection limits are elevated for the sample due to matrix interference.

Sample 27, 914110818-PCB-10A, PCB's by 8082: The sample required a dilution which effectively diluted out the surrogate components.

Sample 28, 914110818-PCB-10B, PCB's by 8082: The detection limits are elevated for the sample due to matrix interference.

Sample 28, 914110818-PCB-10B, PCB's by 8082: The sample required a dilution which effectively diluted out the surrogate components.

Sample 29, 914110818-PCB-10C, PCB's by 8082: The detection limits are elevated for the sample due to matrix interference.

Sample 29, 914110818-PCB-10C, PCB's by 8082: The sample required a dilution which effectively diluted out the surrogate components.

Sample 3, 914110818-PCB-01C, PCB's by 8082: The detection limits are elevated for the sample due to matrix interference. The requested detection limit of 1 mg/kg could not be achieved.

Sample 30, 914110818-PCB-11A, PCB's by 8082: The detection limits are elevated for the sample due to matrix interference.

Sample 30, 914110818-PCB-11A, PCB's by 8082: The sample required a dilution which effectively diluted out the surrogate components.

Sample 31, 914110818-PCB-11B, PCB's by 8082: The detection limits are elevated for the sample due to matrix interference.

Sample 31, 914110818-PCB-11B, PCB's by 8082: The sample required a dilution which effectively diluted out the surrogate components.

Sample 32, 914110818-PCB-11C, PCB's by 8082: The detection limits are elevated for the sample due to matrix interference.

Sample 32, 914110818-PCB-11C, PCB's by 8082: The sample required a dilution which effectively diluted out the surrogate components.

Sample 34, 914110818-PCB-13, PCB's by 8082: The detection limits are elevated for the sample due to matrix interference.

Sample 34, 914110818-PCB-13, PCB's by 8082: The sample required a dilution which effectively diluted out the surrogate components.

Sample 4, 914110818-PCB-02A, PCB's by 8082: One surrogate spike was outside quality control limits for the sample due to matrix interference.

Premier
Laboratory, Inc

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Report No: E108E18
Client: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

CASE NARRATIVE / METHOD CONFORMANCE SUMMARY

Non-Conformances:

Analysis:

Sample 5, 914110818-PCB-02B, PCB's by 8082: One surrogate spike was outside quality control limits for the sample due to matrix interference.

Sample 6, 914110818-PCB-02C, PCB's by 8082: One surrogate spike was outside quality control limits for the sample due to matrix interference.

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 1
Sample Description: 914110818-PCB-01A

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/12/2011 09:00
Date Received: 08/19/2011 15:46
Date Extracted: 08/22/2011 11:30 By: DPR
Date Analyzed: 09/08/2011 11:59 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4090807.D
QC Batch#: 88322

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	5000	ug/kg
11100-14-4	Aroclor 1268	ND	5000	ug/kg
12674-11-2	Aroclor 1016	ND	5000	ug/kg
11104-28-2	Aroclor 1221	ND	5000	ug/kg
11141-16-5	Aroclor 1232	ND	5000	ug/kg
53469-21-9	Aroclor 1242	ND	5000	ug/kg
12672-29-6	Aroclor 1248	ND	5000	ug/kg
11097-69-1	Aroclor 1254	ND	5000	ug/kg
11096-82-5	Aroclor 1260	ND	5000	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	80%	10%-103%
Decachlorobiphenyl	70%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 2
Sample Description: 914110818-PCB-01B

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/12/2011 09:05
Date Received: 08/19/2011 15:46
Date Extracted: 08/22/2011 11:30 By: DPR
Date Analyzed: 09/08/2011 12:26 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4090808.D
QC Batch#: 88322

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	5000	ug/kg
11100-14-4	Aroclor 1268	ND	5000	ug/kg
12674-11-2	Aroclor 1016	ND	5000	ug/kg
11104-28-2	Aroclor 1221	ND	5000	ug/kg
11141-16-5	Aroclor 1232	ND	5000	ug/kg
53469-21-9	Aroclor 1242	ND	5000	ug/kg
12672-29-6	Aroclor 1248	ND	5000	ug/kg
11097-69-1	Aroclor 1254	ND	5000	ug/kg
11096-82-5	Aroclor 1260	ND	5000	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	60%	10%-103%
Decachlorobiphenyl	61%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 3
Sample Description: 914110818-PCB-01C

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/12/2011 09:10
Date Received: 08/19/2011 15:46
Date Extracted: 08/22/2011 11:30 By: DPR
Date Analyzed: 09/08/2011 12:52 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4090809.D
QC Batch#: 88322

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	5000	ug/kg
11100-14-4	Aroclor 1268	ND	5000	ug/kg
12674-11-2	Aroclor 1016	ND	5000	ug/kg
11104-28-2	Aroclor 1221	ND	5000	ug/kg
11141-16-5	Aroclor 1232	ND	5000	ug/kg
53469-21-9	Aroclor 1242	ND	5000	ug/kg
12672-29-6	Aroclor 1248	ND	5000	ug/kg
11097-69-1	Aroclor 1254	ND	5000	ug/kg
11096-82-5	Aroclor 1260	ND	5000	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	75%	10%-103%
Decachlorobiphenyl	69%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 4
Sample Description: 914110818-PCB-02A

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/12/2011 09:15
Date Received: 08/19/2011 15:46
Date Extracted: 08/22/2011 11:30 By: DPR
Date Analyzed: 09/08/2011 13:19 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4090810.D
QC Batch#: 88322

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	200	ug/kg
11100-14-4	Aroclor 1268	ND	200	ug/kg
12674-11-2	Aroclor 1016	ND	200	ug/kg
11104-28-2	Aroclor 1221	ND	200	ug/kg
11141-16-5	Aroclor 1232	ND	200	ug/kg
53469-21-9	Aroclor 1242	ND	200	ug/kg
12672-29-6	Aroclor 1248	ND	200	ug/kg
11097-69-1	Aroclor 1254	ND	200	ug/kg
11096-82-5	Aroclor 1260	ND	200	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	0.00%	10%-103%
Decachlorobiphenyl	49%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 5
Sample Description: 914110818-PCB-02B

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/12/2011 09:20
Date Received: 08/19/2011 15:46
Date Extracted: 08/22/2011 11:30 By: DPR
Date Analyzed: 09/08/2011 13:45 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4090811.D
QC Batch#: 88322

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	200	ug/kg
11100-14-4	Aroclor 1268	ND	200	ug/kg
12674-11-2	Aroclor 1016	ND	200	ug/kg
11104-28-2	Aroclor 1221	ND	200	ug/kg
11141-16-5	Aroclor 1232	ND	200	ug/kg
53469-21-9	Aroclor 1242	ND	200	ug/kg
12672-29-6	Aroclor 1248	ND	200	ug/kg
11097-69-1	Aroclor 1254	ND	200	ug/kg
11096-82-5	Aroclor 1260	ND	200	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	0.00%	10%-103%
Decachlorobiphenyl	38%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 6
Sample Description: 914110818-PCB-02C

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/12/2011 09:25
Date Received: 08/19/2011 15:46
Date Extracted: 08/22/2011 11:30 By: DPR
Date Analyzed: 09/08/2011 14:11 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4090812.D
QC Batch#: 88322

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	200	ug/kg
11100-14-4	Aroclor 1268	ND	200	ug/kg
12674-11-2	Aroclor 1016	ND	200	ug/kg
11104-28-2	Aroclor 1221	ND	200	ug/kg
11141-16-5	Aroclor 1232	ND	200	ug/kg
53469-21-9	Aroclor 1242	ND	200	ug/kg
12672-29-6	Aroclor 1248	ND	200	ug/kg
11097-69-1	Aroclor 1254	ND	200	ug/kg
11096-82-5	Aroclor 1260	ND	200	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	0.00%	10%-103%
Decachlorobiphenyl	59%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 7
Sample Description: 914110818-PCB-03A

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/12/2011 09:27
Date Received: 08/19/2011 15:46
Date Extracted: 08/22/2011 11:30 By: DPR
Date Analyzed: 09/08/2011 14:38 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4090813.D
QC Batch#: 88322

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	200	ug/kg
11100-14-4	Aroclor 1268	ND	200	ug/kg
12674-11-2	Aroclor 1016	ND	200	ug/kg
11104-28-2	Aroclor 1221	ND	200	ug/kg
11141-16-5	Aroclor 1232	ND	200	ug/kg
53469-21-9	Aroclor 1242	ND	200	ug/kg
12672-29-6	Aroclor 1248	ND	200	ug/kg
11097-69-1	Aroclor 1254	ND	200	ug/kg
11096-82-5	Aroclor 1260	ND	200	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	54%	10%-103%
Decachlorobiphenyl	59%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 8
Sample Description: 914110818-PCB-03B

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/12/2011 09:30
Date Received: 08/19/2011 15:46
Date Extracted: 08/23/2011 11:30 By: DPR
Date Analyzed: 09/08/2011 15:04 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4090814.D
QC Batch#: 88323

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	200	ug/kg
11100-14-4	Aroclor 1268	ND	200	ug/kg
12674-11-2	Aroclor 1016	ND	200	ug/kg
11104-28-2	Aroclor 1221	ND	200	ug/kg
11141-16-5	Aroclor 1232	ND	200	ug/kg
53469-21-9	Aroclor 1242	ND	200	ug/kg
12672-29-6	Aroclor 1248	ND	200	ug/kg
11097-69-1	Aroclor 1254	ND	200	ug/kg
11096-82-5	Aroclor 1260	ND	200	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	90%	10%-103%
Decachlorobiphenyl	72%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 9
Sample Description: 914110818-PCB-03C

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/12/2011 09:35
Date Received: 08/19/2011 15:46
Date Extracted: 08/23/2011 11:30 By: DPR
Date Analyzed: 09/08/2011 15:31 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4090815.D
QC Batch#: 88323

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	200	ug/kg
11100-14-4	Aroclor 1268	ND	200	ug/kg
12674-11-2	Aroclor 1016	ND	200	ug/kg
11104-28-2	Aroclor 1221	ND	200	ug/kg
11141-16-5	Aroclor 1232	ND	200	ug/kg
53469-21-9	Aroclor 1242	ND	200	ug/kg
12672-29-6	Aroclor 1248	ND	200	ug/kg
11097-69-1	Aroclor 1254	ND	200	ug/kg
11096-82-5	Aroclor 1260	ND	200	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	66%	10%-103%
Decachlorobiphenyl	71%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 10
Sample Description: 914110818-PCB-04A

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/12/2011 09:45
Date Received: 08/19/2011 15:46
Date Extracted: 08/25/2011 11:00 By: AJM
Date Analyzed: 09/09/2011 11:23 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 1.00
Dilution Factor: 1
Extract Volume: 5
Lab Data File: 4090907.D
QC Batch#: 88381

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	1000	ug/kg
11100-14-4	Aroclor 1268	ND	1000	ug/kg
12674-11-2	Aroclor 1016	ND	1000	ug/kg
11104-28-2	Aroclor 1221	ND	1000	ug/kg
11141-16-5	Aroclor 1232	ND	1000	ug/kg
53469-21-9	Aroclor 1242	ND	1000	ug/kg
12672-29-6	Aroclor 1248	ND	1000	ug/kg
11097-69-1	Aroclor 1254	ND	1000	ug/kg
11096-82-5	Aroclor 1260	ND	1000	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	29%	10%-103%
Decachlorobiphenyl	12%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 11
Sample Description: 914110818-PCB-04B

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/12/2011 09:50
Date Received: 08/19/2011 15:46
Date Extracted: 08/25/2011 11:00 By: AJM
Date Analyzed: 09/09/2011 11:49 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 1.00
Dilution Factor: 1
Extract Volume: 5
Lab Data File: 4090908.D
QC Batch#: 88381

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	1000	ug/kg
11100-14-4	Aroclor 1268	ND	1000	ug/kg
12674-11-2	Aroclor 1016	ND	1000	ug/kg
11104-28-2	Aroclor 1221	ND	1000	ug/kg
11141-16-5	Aroclor 1232	ND	1000	ug/kg
53469-21-9	Aroclor 1242	ND	1000	ug/kg
12672-29-6	Aroclor 1248	ND	1000	ug/kg
11097-69-1	Aroclor 1254	ND	1000	ug/kg
11096-82-5	Aroclor 1260	ND	1000	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	30%	10%-103%
Decachlorobiphenyl	10%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 12
Sample Description: 914110818-PCB-04C

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/12/2011 09:57
Date Received: 08/19/2011 15:46
Date Extracted: 08/25/2011 11:00 By: AJM
Date Analyzed: 09/09/2011 13:48 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 1.00
Dilution Factor: 1
Extract Volume: 5
Lab Data File: 4090909.D
QC Batch#: 88381

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	1000	ug/kg
11100-14-4	Aroclor 1268	ND	1000	ug/kg
12674-11-2	Aroclor 1016	ND	1000	ug/kg
11104-28-2	Aroclor 1221	ND	1000	ug/kg
11141-16-5	Aroclor 1232	ND	1000	ug/kg
53469-21-9	Aroclor 1242	ND	1000	ug/kg
12672-29-6	Aroclor 1248	ND	1000	ug/kg
11097-69-1	Aroclor 1254	ND	1000	ug/kg
11096-82-5	Aroclor 1260	ND	1000	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	29%	10%-103%
Decachlorobiphenyl	10%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 13
Sample Description: 914110818-PCB-05A

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/12/2011 10:15
Date Received: 08/19/2011 15:46
Date Extracted: 08/25/2011 11:00 By: AJM
Date Analyzed: 09/12/2011 09:46 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 1.00
Dilution Factor: 2
Extract Volume: 5
Lab Data File: 4090910.D, 4091203.D
QC Batch#: 88381

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	10000	ug/kg
11100-14-4	Aroclor 1268	ND	10000	ug/kg
12674-11-2	Aroclor 1016	ND	10000	ug/kg
11104-28-2	Aroclor 1221	ND	10000	ug/kg
11141-16-5	Aroclor 1232	ND	10000	ug/kg
53469-21-9	Aroclor 1242	ND	10000	ug/kg
12672-29-6	Aroclor 1248	ND	10000	ug/kg
11097-69-1	Aroclor 1254	ND	10000	ug/kg
11096-82-5	Aroclor 1260	ND	10000	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	33%	10%-103%
Decachlorobiphenyl	10%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 14
Sample Description: 914110818-PCB-05B

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/12/2011 10:30
Date Received: 08/19/2011 15:46
Date Extracted: 08/23/2011 11:30 By: DPR
Date Analyzed: 09/09/2011 15:10 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 10
Extract Volume: 2
Lab Data File: 4090911.D
QC Batch#: 88323

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	10000	ug/kg
11100-14-4	Aroclor 1268	ND	10000	ug/kg
12674-11-2	Aroclor 1016	ND	10000	ug/kg
11104-28-2	Aroclor 1221	ND	10000	ug/kg
11141-16-5	Aroclor 1232	ND	10000	ug/kg
53469-21-9	Aroclor 1242	ND	10000	ug/kg
12672-29-6	Aroclor 1248	ND	10000	ug/kg
11097-69-1	Aroclor 1254	ND	10000	ug/kg
11096-82-5	Aroclor 1260	ND	10000	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	0%	10%-103%
Decachlorobiphenyl	0%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 15
Sample Description: 914110818-PCB-05C

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/12/2011 10:40
Date Received: 08/19/2011 15:46
Date Extracted: 08/24/2011 11:30 By: DPR
Date Analyzed: 09/12/2011 10:17 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 10
Lab Data File: 4091204.D
QC Batch#: 88407

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	5000	ug/kg
11100-14-4	Aroclor 1268	ND	5000	ug/kg
12674-11-2	Aroclor 1016	ND	5000	ug/kg
11104-28-2	Aroclor 1221	ND	5000	ug/kg
11141-16-5	Aroclor 1232	ND	5000	ug/kg
53469-21-9	Aroclor 1242	ND	5000	ug/kg
12672-29-6	Aroclor 1248	ND	5000	ug/kg
11097-69-1	Aroclor 1254	ND	5000	ug/kg
11096-82-5	Aroclor 1260	ND	5000	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	22%	10%-103%
Decachlorobiphenyl	5.4%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 16
Sample Description: 914110818-PCB-06A

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/12/2011 13:00
Date Received: 08/19/2011 15:46
Date Extracted: 08/24/2011 11:30 By: DPR
Date Analyzed: 09/12/2011 10:47 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4091205.D
QC Batch#: 88407

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	200	ug/kg
11100-14-4	Aroclor 1268	ND	200	ug/kg
12674-11-2	Aroclor 1016	ND	200	ug/kg
11104-28-2	Aroclor 1221	ND	200	ug/kg
11141-16-5	Aroclor 1232	ND	200	ug/kg
53469-21-9	Aroclor 1242	ND	200	ug/kg
12672-29-6	Aroclor 1248	ND	200	ug/kg
11097-69-1	Aroclor 1254	ND	200	ug/kg
11096-82-5	Aroclor 1260	ND	200	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	78%	10%-103%
Decachlorobiphenyl	27%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 17
Sample Description: 914110818-PCB-06B

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/12/2011 13:30
Date Received: 08/19/2011 15:46
Date Extracted: 08/24/2011 11:30 By: DPR
Date Analyzed: 09/12/2011 11:13 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4091206.D
QC Batch#: 88407

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	200	ug/kg
11100-14-4	Aroclor 1268	ND	200	ug/kg
12674-11-2	Aroclor 1016	ND	200	ug/kg
11104-28-2	Aroclor 1221	ND	200	ug/kg
11141-16-5	Aroclor 1232	ND	200	ug/kg
53469-21-9	Aroclor 1242	ND	200	ug/kg
12672-29-6	Aroclor 1248	ND	200	ug/kg
11097-69-1	Aroclor 1254	ND	200	ug/kg
11096-82-5	Aroclor 1260	ND	200	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	86%	10%-103%
Decachlorobiphenyl	30%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 18
Sample Description: 914110818-PCB-07A

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/18/2011 12:00
Date Received: 08/19/2011 15:46
Date Extracted: 08/24/2011 11:30 By: DPR
Date Analyzed: 09/12/2011 11:39 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4091207.D
QC Batch#: 88407

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	5000	ug/kg
11100-14-4	Aroclor 1268	ND	5000	ug/kg
12674-11-2	Aroclor 1016	ND	5000	ug/kg
11104-28-2	Aroclor 1221	ND	5000	ug/kg
11141-16-5	Aroclor 1232	ND	5000	ug/kg
53469-21-9	Aroclor 1242	ND	5000	ug/kg
12672-29-6	Aroclor 1248	ND	5000	ug/kg
11097-69-1	Aroclor 1254	ND	5000	ug/kg
11096-82-5	Aroclor 1260	ND	5000	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	74%	10%-103%
Decachlorobiphenyl	30%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 19
Sample Description: 914110818-PCB-07B

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/18/2011 12:07
Date Received: 08/19/2011 15:46
Date Extracted: 08/24/2011 11:30 By: DPR
Date Analyzed: 09/12/2011 12:06 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4091208.D
QC Batch#: 88407

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	5000	ug/kg
11100-14-4	Aroclor 1268	ND	5000	ug/kg
12674-11-2	Aroclor 1016	ND	5000	ug/kg
11104-28-2	Aroclor 1221	ND	5000	ug/kg
11141-16-5	Aroclor 1232	ND	5000	ug/kg
53469-21-9	Aroclor 1242	ND	5000	ug/kg
12672-29-6	Aroclor 1248	ND	5000	ug/kg
11097-69-1	Aroclor 1254	ND	5000	ug/kg
11096-82-5	Aroclor 1260	ND	5000	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	66%	10%-103%
Decachlorobiphenyl	36%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 20
Sample Description: 914110818-PCB-07C

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/18/2011 12:10
Date Received: 08/19/2011 15:46
Date Extracted: 08/24/2011 11:30 By: DPR
Date Analyzed: 09/12/2011 12:32 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4091209.D
QC Batch#: 88407

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	5000	ug/kg
11100-14-4	Aroclor 1268	ND	5000	ug/kg
12674-11-2	Aroclor 1016	ND	5000	ug/kg
11104-28-2	Aroclor 1221	ND	5000	ug/kg
11141-16-5	Aroclor 1232	ND	5000	ug/kg
53469-21-9	Aroclor 1242	ND	5000	ug/kg
12672-29-6	Aroclor 1248	ND	5000	ug/kg
11097-69-1	Aroclor 1254	ND	5000	ug/kg
11096-82-5	Aroclor 1260	ND	5000	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	76%	10%-103%
Decachlorobiphenyl	19%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 21
Sample Description: 914110818-PCB-08A

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/18/2011 12:30
Date Received: 08/19/2011 15:46
Date Extracted: 08/24/2011 11:30 By: DPR
Date Analyzed: 09/12/2011 12:59 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4091210.D
QC Batch#: 88407

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	1000	ug/kg
11100-14-4	Aroclor 1268	ND	1000	ug/kg
12674-11-2	Aroclor 1016	ND	1000	ug/kg
11104-28-2	Aroclor 1221	ND	1000	ug/kg
11141-16-5	Aroclor 1232	ND	1000	ug/kg
53469-21-9	Aroclor 1242	ND	1000	ug/kg
12672-29-6	Aroclor 1248	ND	1000	ug/kg
11097-69-1	Aroclor 1254	ND	1000	ug/kg
11096-82-5	Aroclor 1260	ND	1000	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	50%	10%-103%
Decachlorobiphenyl	33%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 22
Sample Description: 914110818-PCB-08B

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/18/2011 12:35
Date Received: 08/19/2011 15:46
Date Extracted: 08/25/2011 11:00 By: AJM
Date Analyzed: 09/12/2011 14:00 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4091212.D
QC Batch#: 88381

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	200	ug/kg
11100-14-4	Aroclor 1268	ND	200	ug/kg
12674-11-2	Aroclor 1016	ND	200	ug/kg
11104-28-2	Aroclor 1221	ND	200	ug/kg
11141-16-5	Aroclor 1232	ND	200	ug/kg
53469-21-9	Aroclor 1242	ND	200	ug/kg
12672-29-6	Aroclor 1248	ND	200	ug/kg
11097-69-1	Aroclor 1254	ND	200	ug/kg
11096-82-5	Aroclor 1260	ND	200	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	58%	10%-103%
Decachlorobiphenyl	31%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 23
Sample Description: 914110818-PCB-08C

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/18/2011 12:40
Date Received: 08/19/2011 15:46
Date Extracted: 08/25/2011 11:00 By: AJM
Date Analyzed: 09/12/2011 14:26 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4091213.D
QC Batch#: 88381

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	200	ug/kg
11100-14-4	Aroclor 1268	ND	200	ug/kg
12674-11-2	Aroclor 1016	ND	200	ug/kg
11104-28-2	Aroclor 1221	ND	200	ug/kg
11141-16-5	Aroclor 1232	ND	200	ug/kg
53469-21-9	Aroclor 1242	ND	200	ug/kg
12672-29-6	Aroclor 1248	ND	200	ug/kg
11097-69-1	Aroclor 1254	ND	200	ug/kg
11096-82-5	Aroclor 1260	ND	200	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	72%	10%-103%
Decachlorobiphenyl	30%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 24
Sample Description: 914110818-PCB-09A

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/18/2011 12:50
Date Received: 08/19/2011 15:46
Date Extracted: 08/25/2011 11:00 By: AJM
Date Analyzed: 09/12/2011 14:53 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4091214.D
QC Batch#: 88381

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	1000	ug/kg
11100-14-4	Aroclor 1268	ND	1000	ug/kg
12674-11-2	Aroclor 1016	ND	1000	ug/kg
11104-28-2	Aroclor 1221	ND	1000	ug/kg
11141-16-5	Aroclor 1232	ND	1000	ug/kg
53469-21-9	Aroclor 1242	ND	1000	ug/kg
12672-29-6	Aroclor 1248	ND	1000	ug/kg
11097-69-1	Aroclor 1254	ND	1000	ug/kg
11096-82-5	Aroclor 1260	ND	1000	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	69%	10%-103%
Decachlorobiphenyl	22%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 25
Sample Description: 914110818-PCB-09B

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/18/2011 12:58
Date Received: 08/19/2011 15:46
Date Extracted: 08/29/2011 13:00 By: NSO
Date Analyzed: 09/13/2011 11:56 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4091306.D, 4091408.D
QC Batch#: 88465

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	200	ug/kg
11100-14-4	Aroclor 1268	ND	200	ug/kg
12674-11-2	Aroclor 1016	ND	200	ug/kg
11104-28-2	Aroclor 1221	ND	200	ug/kg
11141-16-5	Aroclor 1232	ND	200	ug/kg
53469-21-9	Aroclor 1242	ND	200	ug/kg
12672-29-6	Aroclor 1248	4200	200	ug/kg
11097-69-1	Aroclor 1254	ND	200	ug/kg
11096-82-5	Aroclor 1260	ND	200	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	37%	10%-103%
Decachlorobiphenyl	54%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 26
Sample Description: 914110818-PCB-09C

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/18/2011 13:10
Date Received: 08/19/2011 15:46
Date Extracted: 08/29/2011 13:00 By: NSO
Date Analyzed: 09/13/2011 12:22 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.02
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4091307.D
QC Batch#: 88465

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	200	ug/kg
11100-14-4	Aroclor 1268	ND	200	ug/kg
12674-11-2	Aroclor 1016	ND	200	ug/kg
11104-28-2	Aroclor 1221	ND	200	ug/kg
11141-16-5	Aroclor 1232	ND	200	ug/kg
53469-21-9	Aroclor 1242	ND	200	ug/kg
12672-29-6	Aroclor 1248	3500	200	ug/kg
11097-69-1	Aroclor 1254	ND	200	ug/kg
11096-82-5	Aroclor 1260	ND	200	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	54%	10%-103%
Decachlorobiphenyl	27%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 27
Sample Description: 914110818-PCB-10A

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/18/2011 13:20
Date Received: 08/19/2011 15:46
Date Extracted: 08/29/2011 13:00 By: NSO
Date Analyzed: 09/15/2011 10:54 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.09
Dilution Factor: 20
Extract Volume: 2
Lab Data File: 4091503.D
QC Batch#: 88465

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	3800	ug/kg
11100-14-4	Aroclor 1268	ND	3800	ug/kg
12674-11-2	Aroclor 1016	ND	3800	ug/kg
11104-28-2	Aroclor 1221	ND	3800	ug/kg
11141-16-5	Aroclor 1232	ND	3800	ug/kg
53469-21-9	Aroclor 1242	ND	3800	ug/kg
12672-29-6	Aroclor 1248	ND	3800	ug/kg
11097-69-1	Aroclor 1254	ND	3800	ug/kg
11096-82-5	Aroclor 1260	ND	3800	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	0.00%	10%-103%
Decachlorobiphenyl	0%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 28
Sample Description: 914110818-PCB-10B

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/18/2011 13:25
Date Received: 08/19/2011 15:46
Date Extracted: 08/29/2011 13:00 By: NSO
Date Analyzed: 09/15/2011 11:40 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.12
Dilution Factor: 10
Extract Volume: 2
Lab Data File: 4091504.D
QC Batch#: 88465

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	1900	ug/kg
11100-14-4	Aroclor 1268	ND	1900	ug/kg
12674-11-2	Aroclor 1016	ND	1900	ug/kg
11104-28-2	Aroclor 1221	ND	1900	ug/kg
11141-16-5	Aroclor 1232	ND	1900	ug/kg
53469-21-9	Aroclor 1242	ND	1900	ug/kg
12672-29-6	Aroclor 1248	ND	1900	ug/kg
11097-69-1	Aroclor 1254	ND	1900	ug/kg
11096-82-5	Aroclor 1260	ND	1900	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	0.00%	10%-103%
Decachlorobiphenyl	0%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 29
Sample Description: 914110818-PCB-10C

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/18/2011 13:30
Date Received: 08/19/2011 15:46
Date Extracted: 08/29/2011 13:00 By: NSO
Date Analyzed: 09/15/2011 12:06 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.05
Dilution Factor: 20
Extract Volume: 2
Lab Data File: 4091505.D
QC Batch#: 88465

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	9800	ug/kg
11100-14-4	Aroclor 1268	ND	9800	ug/kg
12674-11-2	Aroclor 1016	ND	9800	ug/kg
11104-28-2	Aroclor 1221	ND	9800	ug/kg
11141-16-5	Aroclor 1232	ND	9800	ug/kg
53469-21-9	Aroclor 1242	ND	9800	ug/kg
12672-29-6	Aroclor 1248	ND	9800	ug/kg
11097-69-1	Aroclor 1254	ND	9800	ug/kg
11096-82-5	Aroclor 1260	ND	9800	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	0.00%	10%-103%
Decachlorobiphenyl	0%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 30
Sample Description: 914110818-PCB-11A

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/18/2011 14:00
Date Received: 08/19/2011 15:46
Date Extracted: 08/29/2011 13:00 By: NSO
Date Analyzed: 09/15/2011 12:33 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.16
Dilution Factor: 10
Extract Volume: 2
Lab Data File: 4091506.D
QC Batch#: 88465

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	4600	ug/kg
11100-14-4	Aroclor 1268	ND	4600	ug/kg
12674-11-2	Aroclor 1016	ND	4600	ug/kg
11104-28-2	Aroclor 1221	ND	4600	ug/kg
11141-16-5	Aroclor 1232	ND	4600	ug/kg
53469-21-9	Aroclor 1242	ND	4600	ug/kg
12672-29-6	Aroclor 1248	ND	4600	ug/kg
11097-69-1	Aroclor 1254	ND	4600	ug/kg
11096-82-5	Aroclor 1260	ND	4600	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	0.00%	10%-103%
Decachlorobiphenyl	0.00%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 31
Sample Description: 914110818-PCB-11B

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/18/2011 14:20
Date Received: 08/19/2011 15:46
Date Extracted: 08/29/2011 13:00 By: NSO
Date Analyzed: 09/15/2011 13:26 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.12
Dilution Factor: 20
Extract Volume: 2
Lab Data File: 4091508.D
QC Batch#: 88465

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	3800	ug/kg
11100-14-4	Aroclor 1268	ND	3800	ug/kg
12674-11-2	Aroclor 1016	ND	3800	ug/kg
11104-28-2	Aroclor 1221	ND	3800	ug/kg
11141-16-5	Aroclor 1232	ND	3800	ug/kg
53469-21-9	Aroclor 1242	ND	3800	ug/kg
12672-29-6	Aroclor 1248	ND	3800	ug/kg
11097-69-1	Aroclor 1254	ND	3800	ug/kg
11096-82-5	Aroclor 1260	ND	3800	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	0%	10%-103%
Decachlorobiphenyl	0%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 32
Sample Description: 914110818-PCB-11C

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/18/2011 14:35
Date Received: 08/19/2011 15:46
Date Extracted: 08/30/2011 10:30 By: DPR
Date Analyzed: 09/15/2011 13:52 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 20
Extract Volume: 2
Lab Data File: 4091509.D
QC Batch#: 88482

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	10000	ug/kg
11100-14-4	Aroclor 1268	ND	10000	ug/kg
12674-11-2	Aroclor 1016	ND	10000	ug/kg
11104-28-2	Aroclor 1221	ND	10000	ug/kg
11141-16-5	Aroclor 1232	ND	10000	ug/kg
53469-21-9	Aroclor 1242	ND	10000	ug/kg
12672-29-6	Aroclor 1248	ND	10000	ug/kg
11097-69-1	Aroclor 1254	ND	10000	ug/kg
11096-82-5	Aroclor 1260	ND	10000	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	0.00%	10%-103%
Decachlorobiphenyl	0%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 33
Sample Description: 914110818-PCB-12

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/18/2011 15:30
Date Received: 08/19/2011 15:46
Date Extracted: 08/30/2011 10:30 By: DPR
Date Analyzed: 09/14/2011 13:51 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 4091408.D
QC Batch#: 88482

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	200	ug/kg
11100-14-4	Aroclor 1268	ND	200	ug/kg
12674-11-2	Aroclor 1016	ND	200	ug/kg
11104-28-2	Aroclor 1221	ND	200	ug/kg
11141-16-5	Aroclor 1232	ND	200	ug/kg
53469-21-9	Aroclor 1242	ND	200	ug/kg
12672-29-6	Aroclor 1248	ND	200	ug/kg
11097-69-1	Aroclor 1254	ND	200	ug/kg
11096-82-5	Aroclor 1260	ND	200	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	78%	10%-103%
Decachlorobiphenyl	107%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E108E18
Sample No: 34
Sample Description: 914110818-PCB-13

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 08/18/2011 15:31
Date Received: 08/19/2011 15:46
Date Extracted: 08/30/2011 10:30 By: DPR
Date Analyzed: 09/15/2011 14:19 By: MRB
Preparation Method: 3540
Analytical Method: 8082

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 2.00
Dilution Factor: 50
Extract Volume: 2
Lab Data File: 4091510.D
QC Batch#: 88482

CAS No.	Parameter	Result	DL	Units
37324-23-5	Aroclor 1262	ND	10000	ug/kg
11100-14-4	Aroclor 1268	ND	10000	ug/kg
12674-11-2	Aroclor 1016	ND	10000	ug/kg
11104-28-2	Aroclor 1221	ND	10000	ug/kg
11141-16-5	Aroclor 1232	ND	10000	ug/kg
53469-21-9	Aroclor 1242	ND	10000	ug/kg
12672-29-6	Aroclor 1248	ND	10000	ug/kg
11097-69-1	Aroclor 1254	ND	10000	ug/kg
11096-82-5	Aroclor 1260	ND	10000	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	0.00%	10%-103%
Decachlorobiphenyl	0%	10%-142%

E108E18 T364

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CHAIN-OF-CUSTODY RECORD 24404

Turnaround
☐ 1 Day* ☐ 3 Days* ☐ Other _____ (days)
☐ 2 Days* ☒ Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Woonsocket Middle School	Woonsocket RI	20100607.A20	Premier

REPORT TO: Pat Dowling, pdowling@fandO.com
INVOICE TO: Cynthia Gianfrancesco, RIDEM
P.O. No.: 914 20100607. A20
Sampler's Signature: [signature] Date: 8/18/11

Source Codes:
MW=Monitoring Well PW=Potable Water S=Soil W=Waste
SW=Surface Water T=Treatment Facility B=Sediment A=Air
X=Other BULK PRODUCT

Analysis Request: TCLP - 8082 3500/3540C Extract

Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	Comments
1	✓	✓	✓		914110818-PCB-01A	X	8/12/11	0900	OLD GYM POLY FLOOR
2			✓		-01B	X	8/12/11	0905	
3			✓		-01C	X	8/12/11	0910	
4			✓		914110818-PCB-02A	X	8/12/11	0915	OLD GYM SLEEPER FLOOR
5			✓		-02B	X	8/12/11	0920	
6			✓		-02C	X	8/12/11	0925	
7			✓		914110818-PCB-03A	X	8/12/11	0927	OLD GYM MASTIC ON CONC
8			✓		-03B	X	8/12/11	0930	
9			✓		-03C	X	8/12/11	0935	
10		✓	✓		914110818-PCB-04A	X	8/12/11	0945	BLACK MASTIC PAPER OLD GYM LOCKERS (N)

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	F to Fridge	8/12/11	1700
2	F to Fridge	[signature] G.C.	8/19/11	0900
3	[signature] G.C.	[signature] G.C.	8/12/11	0900
4	[signature] G.C.	Michael Noble	8/19/11	15:46

Reporting and Detection Limit Requirements: 1 ppm

Additional Comments: please see attached memo + checklist

3.2°

E108E18

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- ☐ 50 Redfield Street, Suite 100, Boston, MA 02122
- ☒ ~~275 Promenade Street, Suite 350~~, Providence, RI 02908
- ☐ 80 Washington Street, Suite 301, Poughkeepsie, NY 12601

CHAIN-OF-CUSTODY RECORD 24405

Turnaround
☐ 1 Day* ☐ 3 Days* ☐ Other _____ (days)
☐ 2 Days* ☒ Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Woonsocket Middle School	~~Woonsocket~~ Woonsocket RI	20100607.A20	Premier

REPORT TO: Pat Dowling, pdowling@fando.com
INVOICE TO: Cynthia Cochrancosse, RIDEM
P.O. No.: 914 20100607.A20
Sampler's Signature: [signature] Date: 8/18/11

Source Codes:
MW=Monitoring Well PW=Potable Water S=Soil W=Waste
SW=Surface Water T=Treatment Facility B=Sediment A=Air
X=Other Bulk Product

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	PCBs 8082, 3500/3540C Extraction	Soil VOA Vial, [ ] methanol	Soil VOA Vial, [ ] water	Glass Soil Container [ ] $Na(SO_4)_2$	Glass Soil Container (4) oz	Glass Soil Container ( ) oz	Other:	Water VOA Vial, [ ] As is [ ] HCl	Glass Amber ( ) ml, [ ] As is [ ] As is [ ] H_2SO_4	Plastic - As is, [ ] 250 ml [ ] 500 [ ] 1000 ml	Plastic - H_2SO_4, [ ] 250 ml [ ] 500 ml	Plastic - HNO_3, 250 ml [ ] Filtered [ ] Unfiltered	Plastic - NaOH, 250 ml	Comments
11	✓	✓	✓		-04B	X	8/12/11	0950	✓				1									(M)
12					-04C	X	8/12/11	0957														(M)
13					914110818-PCB-05A	X	8/12/11	1015														CR114 - BLACK MASTIC UNDER WOOD FLAP
14					-05B	X	8/12/11	1030														
15					-05C	X	8/12/11	1040														↓
16					914110818-PCB-06A	X	8/12/11	1300														BLACK MASTIC ON CONC
17					-06B	X	8/12/11	1330														↓
18					914110818-PCB-07A	X	8/18/11	1200														NEW GYM PLAY
19					-07B	X	8/18/11	1207														
20	↓	↓	↓		-07C	X	8/18/11	1210	↓				↓									↓

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	Fed Friday	8/18/11	1700
2	Fed Friday	[signature]	8/19/11	0900
3	[signature] G.C.	[signature] G.C.	8/19/11	0900
4	[signature] G.C.	[signature]	8/19/11	15:46

Reporting and Detection Limit Requirements: 1 ppm

Additional Comments: please see attached memo + checklist

3.2 C

E108E18

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☐ 80 Washington Street, Suite 301, Poughkeepsie, NY 12601

CHAIN-OF-CUSTODY RECORD 24406

Turnaround
☐ 1 Day* ☐ 2 Days* ☐ 3 Days* ☒ Standard (____ days) ☐ Other ______ (days)
*Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Woonsocket Middle School	Woonsocket RI	20100607. A20	Premier

REPORT TO: Pat Dawling, pdawling@fando.com
INVOICE TO: Cynthia Gianfrancesco, RIDEM
P.O. NO.: 914 20100607. A20
Sampler's Signature: [signature] Date: 8/18/11

Source Codes:
MW=Monitoring Well PW=Potable Water S=Soil W=Waste
SW=Surface Water T=Treatment Facility B=Sediment A=Air
X=Other Bulk Product

Analysis Request: PCBs 8082, 3550/3540C Extract

Containers: Soil VOA Vial, [ ] methanol; Soil VOA Vial, [ ] water; Glass Soil Container (4) oz; Glass Soil Container ( ) oz; Other: [ ] Na(SO4)2; Water VOA Vial, [ ] As is [ ] HCl; Glass Amber ( ) ml, [ ] As is [ ] H2SO4; Plastic - As is, [ ] 250 ml [ ] 500 [ ] 1000 ml; Plastic - H2SO4, [ ] 250 ml [ ] 500 ml; Plastic - HNO3, 250 ml [ ] Filtered [ ] Unfiltered; Plastic - NaOH, 250 ml

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	PCBs 8082, 3550/3540C Extract	Glass Soil Container (4) oz	Comments
21	✓	✓	✓		914110818-PCB-08A	X	8/18/11	X1230	✓	↓	Ext. Brown Caulk @ Alum. (A)
22	↓	↓	↓		-08B	X	8/18/11	X1235	↓	↓	(B)
23	↓	↓	↓		-08C	X	8/18/11	X1240	↓	↓	(C)
24	↓	↓	↓		914110818-PCB-09A	X	8/18/11	X1250	↓	↓	Int. Brown Caulk #212
25	↓	↓	↓		-09B	X	8/18/11	X1258	↓	↓	Library
26	↓	↓	↓		-09C	X	8/18/11	X1310	↓	↓	# 501
27	↓	↓	↓		914110818-PCB-10A	X	8/18/11	1320	↓	↓	Ext. Door Caulk A Entry
28	↓	↓	↓		-10B	X	8/18/11	1325	↓	↓	#2 Stair
29	↓	↓	↓		-10C	X	8/18/11	1330	↓	↓	B Side
30	✓	✓	✓		914110818-PCB-11A	X	8/18/11	1400	✓	↓	Tan Caulk @ Brick Molding A Side

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	F+O Fridge	8/18/11	1700
2	F+O Fridge	[signature]	8/19/11	0900
3	[signature]	[signature] G.C.	8/19/11	0900
4	[signature] G.C.	Michael Noble	8/19/11	15:46

Reporting and Detection Limit Requirements: 1 ppm

Additional Comments: please see attached memo + checklist

E108E18

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- ☐ 50 Redfield Street, Suite 100, Boston, MA 02122
- ☒ ~~275 Promenade Street, Suite 350~~, Providence, RI 02908 — 317 Iron Horse Way Suite 204
- ☐ 80 Washington Street, Suite 301, Poughkeepsie, NY 12601

CHAIN-OF-CUSTODY RECORD 24407

Turnaround: ☐ 1 Day* ☐ 2 Days* ☐ 3 Days* ☒ Standard (____ days) ☐ Other ______ (days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Woonsocket Middle school	Woonsocket RI	20100607.A20	Premier

REPORT TO: Pat Dawling, pdawling@fando.com
INVOICE TO: Cynthia Cianfrancesco, RIDEM
P.O. NO.: 914 20100607.A20
Sampler's Signature: [signature] Date: 8/18/11

Source Codes: MW=Monitoring Well, SW=Surface Water, PW=Potable Water, T=Treatment Facility, S=Soil, B=Sediment, W=Waste, A=Air, X=Other Bulk Product

Analysis Request: PCBs 8082, 3500/3540C Extract

Containers: Soil VOA Vial, [ ] methanol; Soil VOA Vial, [ ] water; Glass Soil Container (4) oz [ ] Na(SO₄)₂; Glass Soil Container ( ) oz; Other; Water VOA Vial, [ ] As is [ ] HCl; Glass Amber ( ) ml, [ ] As is [ ] H₂SO₄; Plastic - As is, [ ] 250 ml [ ] 500 [ ] 1000 ml; Plastic - H₂SO₄, [ ] 250 ml [ ] 500 ml; Plastic - HNO₃, 250 ml [ ] Filtered [ ] Unfiltered; Plastic - NaOH, 250 ml

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	PCBs 8082, 3500/3540C Extract	Glass Soil Container (4) oz	Comments
31	✓	✓	✓		-11B	X	8/18/11	1420	✓	✓	BSIDE
32	↓	✓	✓		-11C	X	8/18/11	1435	↓	↓	↓ BSIDE
33	↓	✓	✓		914110818-PCB-12	X	8/18/11	1530	↓	↓	INT. WC (BSIDE)
34	↓	✓	✓		914110818-PCB-13	X	8/18/11	1531	↓	↓	DC (MAIN)

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	FTO Fridge	8/18/11	1700
2	FTO Fridge	[signature]	8/19/11	0900
3	[signature]	[signature]	8/19/11	0900
4	[signature]	Michael [signature]	8/19/11	15:46

Reporting and Detection Limit Requirements: 1 ppm

Additional Comments: please see attached memo + checklist

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECT IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
ORGANIC COMPOUNDS

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**

		YES	NO	COMMENTS
1.	SDG Project Narratives	☒	☐	
2.	Traffic Report	☐	☐	NA
3.	Volatiles Data			
a.	Sample Data			
	Target Compound List (TCL) Results	☐	☐	
	Reconstructed total ion chromatograms (RIC) for each sample	☐	☐	
	For each sample:			
	Raw spectra and background-subtracted mass spectra of target compounds identified	☐	☐	
	Mass spectra of all reported TICs with three best library matches	☐	☐	
	Percent solids calculations	☐	☐	
b.	Standards Data (all instruments)			
	Initial Calibration Data	☐	☐	
	RICs and Quan Reports for all Standards	☐	☐	
	Continuing Calibration	☐	☐	
	RICs and Quan Reports for all Standards	☐	☐	
	Internal Standard Area Summary	☐	☐	
c.	Raw QC Data			
	Blank Data	☐	☐	
	Matrix Spike Data	☐	☐	
	Matrix Spike Duplicate Data	☐	☐	↓
4.	Semivolatiles Data			
a.	QC Summary			
	Surrogate Percent Recovery Summary	☒	☐	
	MS/MSD Summary	☐	☐	NA
	Method Blank Summary	☒	☐	NA
	Tuning and Mass Calibration	☐	☐	NA

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECT IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
ORGANIC COMPOUNDS
(Continued)

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**

	YES	NO	COMMENTS
b. Sample Data			
TCL Results	☒	☐	
Tentatively Identified Compounds	☐	☐	NA
Reconstructed total ion chromatograms (RIC) for each Sample	☐	☐	
For each sample:			
Raw spectra and background-subtracted mass spectra of TCL compounds	☐	☐	
Mass spectra of TICs with 3 best library matches	☐	☐	
GPC chromatograms (if GPC performed)	☐	☐	
c. Standards Data (all instruments)			
Initial Calibration Data	☒	☐	
RICs and Quan Reports for all Standards	☒	☐	
Continuing Calibration	☒	☐	
RICs and Quan Reports for all Standards	☒	☐	
Internal Standard Areas Summary	☐	☐	NA
Internal Standard Areas Summary	☐	☐	NA
d. Raw QC Data			
Decafluorotripbenylphosphine (DFTPP)	☐	☐	NA
Blank Data	☒	☐	
Matrix Spike Data	☐	☐	NA
Matrix Spike Duplicate Data	☐	☐	NA
5. Miscellaneous Data			
Original preparation and analysis forms or copies of preparation and analysis log book pages	☒	☐	
Internal sample & sample extract transfer chain-of custody records	☐	☐	NA
Screening Records	☐	☐	NA
All instrument output, including strip charts from screening activities (describe or list)	☒	☐	

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECT IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
ORGANIC COMPOUNDS
(Continued)

		PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**		
		YES	NO	COMMENTS
6.	Chain-of-Custody Records	☒	☐	
	Sample Log-in Sheet (Lab & DC1)	☐	☐	
	Miscellaneous Shipping/Receiving Records (describe or list)	☐	☐	
7.	Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)	☐	☐	
8.	Other Records (describe or list)	☐	☐	

9. Comments:

** See laboratory Quality Assurance Plan for limits.

Completed by: K Montgomery Lisa Montgomery 9/26/11
(Lab) (Signature) (Printed Name/Title) Date

I certify that the above information is true and accurate. I further certify that all laboratory results associated with the above analyses will be made available for review for seven (7) years following certification of this document.

Certified by: K Montgomery Lisa Montgomery 9/26/11
(Lab) (Signature) (Printed Name/Title) Date

Modified Tier II
Data Validation Narrative

Project: 20100607.A20
Site Investigation/Targeted Brownfields Assessment
Former Woonsocket Middle School

ESS Laboratory Project Number:	1206255
Date Samples Received at Laboratory:	June 14, 2012
Date of Review:	November 5, 2012

Sixteen building materials samples, including two duplicate samples, were collected and submitted to ESS Laboratory (ESS) for analysis of polychlorinated biphenyls (PCBs) by United States Environmental Protection Agency (USEPA) Method 8082, with extraction via Soxhlet Method 3540.

A non-dedicated chisel was utilized to sample some of the PCB bulk material samples collected in June 2012, necessitating the collection and analysis of one equipment blank. The chisel was decontaminated with hexane following collection of each sample, in accordance with Fuss & O'Neill Standard Operating Procedures. At the end of the sampling event, a wipe sample was then collected from the chisel as an equipment blank. No PCBs were detected in the equipment blank at concentrations exceeding laboratory reporting limits. Samples were analyzed within the method-specific holding times.

The case narrative included in the analytical report documented non-conformances associated with recovery of surrogate compounds utilized during the analyses. Recovery of one or more surrogates was outside the laboratory-specified quality control range for five samples. For three of these samples, surrogate recoveries were above quality control range, suggesting potential high bias for the corresponding analytical data. PCBs were detected in two of these three samples at concentrations exceeding laboratory reporting limits. However, any potential high bias did not affect the usability of the data because PCBs were detected in the affected samples and additional samples of similar material at concentrations within the regulatory range discussed below. For the remaining two samples, surrogate recoveries were below quality control range, suggesting potential low bias for the corresponding analytical data. No PCBs were reportedly detected in these samples at concentrations exceeding laboratory reporting limits. Therefore, potential low bias is not anticipated to affect the usability of the data. No other non-conformances were noted in this analytical report.

As noted previously, two duplicate samples were collected and analyzed as part of this sample group. PCBs were not detected at concentrations above laboratory reporting limits in either the primary or the duplicate sample for one of the pairings (Samples # 914120611-05B and -06); therefore the relative percent difference (RPD) was not calculated. For the second primary/duplicate pair (Samples # 914120611-01B and -02) the calculated RPD was 20%, which was within an acceptable range.

Analytical results for the building materials samples were compared to regulatory limits established by USEPA under the Toxic Substances Control Act (TSCA). These limits included the regulated limit of 50 parts per million (ppm) and the potentially-regulated limit of 1 ppm. All laboratory reporting limits were low enough to allow direct comparison to these limits.

FUSS & O'NEILL

INITIAL DATE: OCTOBER 2011
REVISION DATE: FEBRUARY 2012
REVISION: 1.0

1206255

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
MODIFIED TIER I COMPLETENESS CHECKLIST

	YES	NO	
1. SAMPLING AND FIELD MEASUREMENTS:			
Field measurement calibration records	☐	☐	N/A
Groundwater field measurements (if applicable)	☐	☐	
Soil sampling field measurements (if applicable)	☐	☐	
Sediment sampling field measurements (if applicable)	☐	☐	
Surface water sampling field measurements (if applicable)	☐	☐	
Low-flow sampling field measurements (if applicable)	☐	☐	
Documentation of field activities	☒	☐	
Sample numbering and labeling	☒	☐	
Chain-of-Custody records	☒	☐	
Trip blanks	☐	☐	N/A
Duplicate samples	☒	☐	
Equipment blanks	☒	☐	
Split samples (if any)	☐	☐	N/A
2. LABORATORY MEASUREMENTS:			
Trip blanks	☐	☐	N/A
Instrument blanks	☒	☐	
Laboratory control samples	☒	☐	
Duplicates samples	☒	☐	
Equipment blanks	☒	☐	
Matrix spike/matrix spike duplicates	☐	☐	N/A
Analysis type	☒	☐	
Chain-of-Custody records	☒	☐	
Surrogate recoveries	☒	☐	
Sample Project Narratives	☒	☐	
Split samples (if any)	☐	☐	N/A
TOTAL:	13	—	

PERCENT COMPLETE: 100 %

INITIAL DATE: OCTOBER 2011
REVISION DATE: FEBRUARY 2012
REVISION: 1.0

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

1. SAMPLING AND FIELD MEASUREMENTS:	YES	NO	COMMENTS
Field measurement calibration records			
pH - ± 0.3 pH units	☐	☐	N/A
S.C. - ± 5% of calibration solution, within? calibration range	☐	☐	
Temperature - ± 0.5 °C	☐	☐	
D.O. - ± 5% of calibration solution	☐	☐	
Groundwater field measurements (if applicable)			
Water depth measured to within 0.01 ft.?	☐	☐	
Soil sampling field measurements (if applicable)			
OVM - ± 2 ppm	☐	☐	
OVA - ± 2 ppm	☐	☐	
Sediment sampling field measurements (if applicable)			
Descriptive information recorded?	☐	☐	
Surface water sampling field measurements (if applicable)			
Water depth measured to within 0.01 ft.?	☐	☐	
Low-flow sampling field measurements (if applicable)			
S.C. - ± 10%	☐	☐	
pH - ± 0.2 pH units	☐	☐	
Temperature - ± 10%	☐	☐	
Turbidity - ±5 NTU	☐	☐	
Documentation of field activities			
Site-specific information documented in field notebook?	☒	☐	
Field data sheets completed?	☒	☐	
Sample numbering and labeling			
Sample numbering conforms to sample I.D. system identified in QAPP?	☒	☐	
Chain-of-Custody records			
Chain-of-Custody forms completed?	☒	☐	

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST
(Continued)

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

	YES	NO	COMMENTS
Trip blanks			
Trip blanks submitted, one per day?	☐	☐	N/A
Any compounds detected in trip blanks?	☐	☐	↓
Duplicate samples			
Field duplicates performed, 1/20 samples?	☒	☐	
Duplicates performed on 10% of samples screened for explosives?	☐	☐	N/A
Is percent difference within 30% for all field parameters?	☐	☐	↓
Equipment blanks			
Equipment blanks submitted, one per sampling day?	☒	☐	
Any compounds detected in equipment blank?	☐	☒	
Split samples (if any)			
Split samples collected?	☐	☐	N/A
Is percent difference within 30% for split samples?	☐	☐	↓

2. LABORATORY MEASUREMENTS:

Trip blanks			
Trip blanks submitted, one per day?	☐	☐	N/A
Any compounds detected in trip blanks?	☐	☐	↓
Instrument blanks**	☒	☐	
Laboratory control samples**	☒	☐	
Duplicates samples**	☒	☐	
Equipment blanks**	☒	☐	
Matrix spike/matrix spike duplicates**	☐	☐	N/A
Analysis type	☒	☐	
Chain-of-Custody records	☒	☐	
Surrogate recoveries**	☐	☒	out of range for 5 samples
Sample Project Narratives	☒	☐	
Split samples (if any)**	☐	☐	N/A
Most recent EPA WP-PE sample results**	☐	☐	↓

CERTIFICATE OF ANALYSIS

Pat Dowling
Fuss & O'Neill, Inc.
317 Iron Horse Way, Suite 204
Providence, RI 02908

RE: Former Woonsocket Middle School (20100607.A20)
ESS Laboratory Work Order Number: 1206255

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 12:39 pm, Jul 02, 2012

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School

ESS Laboratory Work Order: 1206255

SAMPLE RECEIPT

The following samples were received on June 14, 2012 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	SampleName	Matrix	Analysis
1206255-01	914120611-01A	Solid	8082
1206255-02	914120611-01B	Solid	8082
1206255-03	914120611-01C	Solid	8082
1206255-04	914120611-02	Solid	8082
1206255-05	914120611-03a	Solid	8082
1206255-06	914120611-03b	Solid	8082
1206255-07	914120611-04a	Solid	8082
1206255-08	914120611-04b	Solid	8082
1206255-09	914120611-05a	Solid	8082
1206255-10	914120611-05b	Solid	8082
1206255-11	914120611-06	Solid	8082
1206255-12	914120611-07a	Solid	8082
1206255-13	914120611-07b	Solid	8082
1206255-14	914120611-08a	Solid	8082
1206255-15	914120611-08b	Solid	8082
1206255-16	914120611-09	Wipe	8082

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School ESS Laboratory Work Order: 1206255

PROJECT NARRATIVE

8082 Polychlorinated Biphenyls (PCB)

1206255-05 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
Decachlorobiphenyl (25% @ 30-150%), Tetrachloro-m-xylene (22% @ 30-150%)

1206255-06 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
Decachlorobiphenyl (27% @ 30-150%), Tetrachloro-m-xylene (21% @ 30-150%)

1206255-11 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
Tetrachloro-m-xylene (276% @ 30-150%)

1206255-12 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
Tetrachloro-m-xylene (327% @ 30-150%)

1206255-13 **Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
Tetrachloro-m-xylene (243% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School
Client Sample ID: 914120611-01A
Date Sampled: 06/11/12 11:30
Percent Solids: N/A
Initial Volume: 10
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1206255
ESS Laboratory Sample ID: 1206255-01
Sample Matrix: Solid
Units: mg/kg wet
Analyst: TAJ
Prepared: 6/15/12 17:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.100)		1	06/18/12 12:10		CF21526
Aroclor 1221	ND (0.100)		1	06/18/12 12:10		CF21526
Aroclor 1232	ND (0.100)		1	06/18/12 12:10		CF21526
Aroclor 1242	ND (0.100)		1	06/18/12 12:10		CF21526
Aroclor 1248	ND (0.100)		1	06/18/12 12:10		CF21526
Aroclor 1254	ND (0.100)		1	06/18/12 12:10		CF21526
Aroclor 1260	ND (0.100)		1	06/18/12 12:10		CF21526
Aroclor 1262	ND (0.100)		1	06/18/12 12:10		CF21526
Aroclor 1268	ND (0.100)		1	06/18/12 12:10		CF21526

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*63 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*86 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School
Client Sample ID: 914120611-01B
Date Sampled: 06/11/12 10:30
Percent Solids: N/A
Initial Volume: 10
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1206255
ESS Laboratory Sample ID: 1206255-02
Sample Matrix: Solid
Units: mg/kg wet
Analyst: TAJ
Prepared: 6/15/12 17:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.100)		1	06/18/12 12:28		CF21526
Aroclor 1221	ND (0.100)		1	06/18/12 12:28		CF21526
Aroclor 1232	ND (0.100)		1	06/18/12 12:28		CF21526
Aroclor 1242	**0.257** (0.100)		1	06/18/12 12:28		CF21526
Aroclor 1248	ND (0.100)		1	06/18/12 12:28		CF21526
Aroclor 1254	**0.118** (0.100)		1	06/18/12 12:28		CF21526
Aroclor 1260	ND (0.100)		1	06/18/12 12:28		CF21526
Aroclor 1262	ND (0.100)		1	06/18/12 12:28		CF21526
Aroclor 1268	ND (0.100)		1	06/18/12 12:28		CF21526

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*55 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*60 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*65 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*70 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School
Client Sample ID: 914120611-01C
Date Sampled: 06/11/12 09:45
Percent Solids: N/A
Initial Volume: 10
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1206255
ESS Laboratory Sample ID: 1206255-03
Sample Matrix: Solid
Units: mg/kg wet
Analyst: TAJ
Prepared: 6/15/12 17:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.100)		1	06/18/12 12:47		CF21526
Aroclor 1221	ND (0.100)		1	06/18/12 12:47		CF21526
Aroclor 1232	ND (0.100)		1	06/18/12 12:47		CF21526
Aroclor 1242	**1.35** (0.100)		1	06/18/12 12:47		CF21526
Aroclor 1248	ND (0.100)		1	06/18/12 12:47		CF21526
Aroclor 1254	**0.446** (0.100)		1	06/18/12 12:47		CF21526
Aroclor 1260	ND (0.100)		1	06/18/12 12:47		CF21526
Aroclor 1262	ND (0.100)		1	06/18/12 12:47		CF21526
Aroclor 1268	ND (0.100)		1	06/18/12 12:47		CF21526

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*74 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*69 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*83 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School
Client Sample ID: 914120611-02
Date Sampled: 06/11/12 10:40
Percent Solids: N/A
Initial Volume: 10.1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1206255
ESS Laboratory Sample ID: 1206255-04
Sample Matrix: Solid
Units: mg/kg wet
Analyst: TAJ
Prepared: 6/15/12 17:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0990)		1	06/18/12 13:06		CF21526
Aroclor 1221	ND (0.0990)		1	06/18/12 13:06		CF21526
Aroclor 1232	ND (0.0990)		1	06/18/12 13:06		CF21526
Aroclor 1242	**0.293** (0.0990)		1	06/18/12 13:06		CF21526
Aroclor 1248	ND (0.0990)		1	06/18/12 13:06		CF21526
Aroclor 1254	**0.167** (0.0990)		1	06/18/12 13:06		CF21526
Aroclor 1260	ND (0.0990)		1	06/18/12 13:06		CF21526
Aroclor 1262	ND (0.0990)		1	06/18/12 13:06		CF21526
Aroclor 1268	ND (0.0990)		1	06/18/12 13:06		CF21526

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*57 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*65 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*63 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*68 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School
Client Sample ID: 914120611-03a
Date Sampled: 06/11/12 11:00
Percent Solids: N/A
Initial Volume: 2.65
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1206255
ESS Laboratory Sample ID: 1206255-05
Sample Matrix: Solid
Units: mg/kg wet
Analyst: TAJ
Prepared: 6/22/12 16:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.377)		1	06/25/12 14:04		CF22119
Aroclor 1221	ND (0.377)		1	06/25/12 14:04		CF22119
Aroclor 1232	ND (0.377)		1	06/25/12 14:04		CF22119
Aroclor 1242	ND (0.377)		1	06/25/12 14:04		CF22119
Aroclor 1248	ND (0.377)		1	06/25/12 14:04		CF22119
Aroclor 1254	ND (0.377)		1	06/25/12 14:04		CF22119
Aroclor 1260	ND (0.377)		1	06/25/12 14:04		CF22119
Aroclor 1262	ND (0.377)		1	06/25/12 14:04		CF22119
Aroclor 1268	ND (0.377)		1	06/25/12 14:04		CF22119

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*25 %*	*SM*	*30-150*
Surrogate: Decachlorobiphenyl [2C]	*33 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*22 %*	*SM*	*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*32 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School
Client Sample ID: 914120611-03b
Date Sampled: 06/11/12 11:10
Percent Solids: N/A
Initial Volume: 2.5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1206255
ESS Laboratory Sample ID: 1206255-06
Sample Matrix: Solid
Units: mg/kg wet
Analyst: TAJ
Prepared: 6/22/12 16:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.400)		1	06/25/12 14:23		CF22119
Aroclor 1221	ND (0.400)		1	06/25/12 14:23		CF22119
Aroclor 1232	ND (0.400)		1	06/25/12 14:23		CF22119
Aroclor 1242	ND (0.400)		1	06/25/12 14:23		CF22119
Aroclor 1248	ND (0.400)		1	06/25/12 14:23		CF22119
Aroclor 1254	ND (0.400)		1	06/25/12 14:23		CF22119
Aroclor 1260	ND (0.400)		1	06/25/12 14:23		CF22119
Aroclor 1262	ND (0.400)		1	06/25/12 14:23		CF22119
Aroclor 1268	ND (0.400)		1	06/25/12 14:23		CF22119

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*27 %*	*SM*	*30-150*
Surrogate: Decachlorobiphenyl [2C]	*33 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*21 %*	*SM*	*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*33 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School
Client Sample ID: 914120611-04a
Date Sampled: 06/11/12 11:20
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1206255
ESS Laboratory Sample ID: 1206255-07
Sample Matrix: Solid
Units: mg/kg wet
Analyst: TAJ
Prepared: 6/15/12 17:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.200)		1	06/18/12 14:02		CF21526
Aroclor 1221	ND (0.200)		1	06/18/12 14:02		CF21526
Aroclor 1232	ND (0.200)		1	06/18/12 14:02		CF21526
Aroclor 1242	**3.61** (0.200)		1	06/18/12 14:02		CF21526
Aroclor 1248	ND (0.200)		1	06/18/12 14:02		CF21526
Aroclor 1254	**1.60** (0.200)		1	06/18/12 14:02		CF21526
Aroclor 1260	ND (0.200)		1	06/18/12 14:02		CF21526
Aroclor 1262	ND (0.200)		1	06/18/12 14:02		CF21526
Aroclor 1268	ND (0.200)		1	06/18/12 14:02		CF21526

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*35 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*42 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*61 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*57 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School
Client Sample ID: 914120611-04b
Date Sampled: 06/11/12 11:25
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1206255
ESS Laboratory Sample ID: 1206255-08
Sample Matrix: Solid
Units: mg/kg wet
Analyst: TAJ
Prepared: 6/15/12 17:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.200)		1	06/18/12 14:21		CF21526
Aroclor 1221	ND (0.200)		1	06/18/12 14:21		CF21526
Aroclor 1232	ND (0.200)		1	06/18/12 14:21		CF21526
Aroclor 1242	**2.27** (0.200)		1	06/18/12 14:21		CF21526
Aroclor 1248	ND (0.200)		1	06/18/12 14:21		CF21526
Aroclor 1254	**1.03** (0.200)		1	06/18/12 14:21		CF21526
Aroclor 1260	ND (0.200)		1	06/18/12 14:21		CF21526
Aroclor 1262	ND (0.200)		1	06/18/12 14:21		CF21526
Aroclor 1268	ND (0.200)		1	06/18/12 14:21		CF21526

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*38 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*45 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*71 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*77 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School
Client Sample ID: 914120611-05a
Date Sampled: 06/11/12 11:45
Percent Solids: N/A
Initial Volume: 2.04
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1206255
ESS Laboratory Sample ID: 1206255-09
Sample Matrix: Solid
Units: mg/kg wet
Analyst: TAJ
Prepared: 6/22/12 16:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.490)		1	06/25/12 14:42		CF22119
Aroclor 1221	ND (0.490)		1	06/25/12 14:42		CF22119
Aroclor 1232	ND (0.490)		1	06/25/12 14:42		CF22119
Aroclor 1242	ND (0.490)		1	06/25/12 14:42		CF22119
Aroclor 1248	ND (0.490)		1	06/25/12 14:42		CF22119
Aroclor 1254	ND (0.490)		1	06/25/12 14:42		CF22119
Aroclor 1260	ND (0.490)		1	06/25/12 14:42		CF22119
Aroclor 1262	ND (0.490)		1	06/25/12 14:42		CF22119
Aroclor 1268	ND (0.490)		1	06/25/12 14:42		CF22119

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*42 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*65 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*110 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*61 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School
Client Sample ID: 914120611-05b
Date Sampled: 06/11/12 12:00
Percent Solids: N/A
Initial Volume: 2.02
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1206255
ESS Laboratory Sample ID: 1206255-10
Sample Matrix: Solid
Units: mg/kg wet
Analyst: TAJ
Prepared: 6/22/12 16:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.495)		1	06/25/12 15:01		CF22119
Aroclor 1221	ND (0.495)		1	06/25/12 15:01		CF22119
Aroclor 1232	ND (0.495)		1	06/25/12 15:01		CF22119
Aroclor 1242	ND (0.495)		1	06/25/12 15:01		CF22119
Aroclor 1248	ND (0.495)		1	06/25/12 15:01		CF22119
Aroclor 1254	ND (0.495)		1	06/25/12 15:01		CF22119
Aroclor 1260	ND (0.495)		1	06/25/12 15:01		CF22119
Aroclor 1262	ND (0.495)		1	06/25/12 15:01		CF22119
Aroclor 1268	ND (0.495)		1	06/25/12 15:01		CF22119

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*43 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*61 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*80 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School
Client Sample ID: 914120611-06
Date Sampled: 06/11/12 12:15
Percent Solids: N/A
Initial Volume: 2.02
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1206255
ESS Laboratory Sample ID: 1206255-11
Sample Matrix: Solid
Units: mg/kg wet
Analyst: TAJ
Prepared: 6/22/12 16:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.495)		1	06/25/12 15:20		CF22119
Aroclor 1221	ND (0.495)		1	06/25/12 15:20		CF22119
Aroclor 1232	ND (0.495)		1	06/25/12 15:20		CF22119
Aroclor 1242	ND (0.495)		1	06/25/12 15:20		CF22119
Aroclor 1248	ND (0.495)		1	06/25/12 15:20		CF22119
Aroclor 1254	ND (0.495)		1	06/25/12 15:20		CF22119
Aroclor 1260	ND (0.495)		1	06/25/12 15:20		CF22119
Aroclor 1262	ND (0.495)		1	06/25/12 15:20		CF22119
Aroclor 1268	ND (0.495)		1	06/25/12 15:20		CF22119

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*44 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*69 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*276 %*	*SM*	*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*104 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School
Client Sample ID: 914120611-07a
Date Sampled: 06/11/12 14:30
Percent Solids: N/A
Initial Volume: 2.03
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1206255
ESS Laboratory Sample ID: 1206255-12
Sample Matrix: Solid
Units: mg/kg wet
Analyst: TAJ
Prepared: 6/22/12 16:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.493)		1	06/25/12 17:12		CF22119
Aroclor 1221	ND (0.493)		1	06/25/12 17:12		CF22119
Aroclor 1232	ND (0.493)		1	06/25/12 17:12		CF22119
Aroclor 1242	**2.06** (0.493)		1	06/25/12 17:12		CF22119
Aroclor 1248	ND (0.493)		1	06/25/12 17:12		CF22119
Aroclor 1254	ND (0.493)		1	06/25/12 17:12		CF22119
Aroclor 1260	ND (0.493)		1	06/25/12 17:12		CF22119
Aroclor 1262	ND (0.493)		1	06/25/12 17:12		CF22119
Aroclor 1268	ND (0.493)		1	06/25/12 17:12		CF22119

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*38 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*58 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*327 %*	*SM*	*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*77 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School
Client Sample ID: 914120611-07b
Date Sampled: 06/11/12 15:00
Percent Solids: N/A
Initial Volume: 2.08
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1206255
ESS Laboratory Sample ID: 1206255-13
Sample Matrix: Solid
Units: mg/kg wet
Analyst: TAJ
Prepared: 6/22/12 16:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.481)		1	06/25/12 18:04		CF22119
Aroclor 1221	ND (0.481)		1	06/25/12 18:04		CF22119
Aroclor 1232	ND (0.481)		1	06/25/12 18:04		CF22119
Aroclor 1242	ND (0.481)		1	06/25/12 18:04		CF22119
Aroclor 1248	**3.82** (0.481)		1	06/25/12 18:04		CF22119
Aroclor 1254	ND (0.481)		1	06/25/12 18:04		CF22119
Aroclor 1260	ND (0.481)		1	06/25/12 18:04		CF22119
Aroclor 1262	ND (0.481)		1	06/25/12 18:04		CF22119
Aroclor 1268	ND (0.481)		1	06/25/12 18:04		CF22119

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*40 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*60 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*243 %*	*SM*	*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*70 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School
Client Sample ID: 914120611-08a
Date Sampled: 06/11/12 13:30
Percent Solids: N/A
Initial Volume: 10.5
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1206255
ESS Laboratory Sample ID: 1206255-14
Sample Matrix: Solid
Units: mg/kg wet
Analyst: TAJ
Prepared: 6/15/12 17:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0952)		1	06/18/12 16:21		CF21526
Aroclor 1221	ND (0.0952)		1	06/18/12 16:21		CF21526
Aroclor 1232	ND (0.0952)		1	06/18/12 16:21		CF21526
Aroclor 1242	ND (0.0952)		1	06/18/12 16:21		CF21526
Aroclor 1248	ND (0.0952)		1	06/18/12 16:21		CF21526
Aroclor 1254	ND (0.0952)		1	06/18/12 16:21		CF21526
Aroclor 1260	ND (0.0952)		1	06/18/12 16:21		CF21526
Aroclor 1262	ND (0.0952)		1	06/18/12 16:21		CF21526
Aroclor 1268	ND (0.0952)		1	06/18/12 16:21		CF21526

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*43 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*46 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*94 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*81 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School
Client Sample ID: 914120611-08b
Date Sampled: 06/11/12 13:45
Percent Solids: N/A
Initial Volume: 10.4
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1206255
ESS Laboratory Sample ID: 1206255-15
Sample Matrix: Solid
Units: mg/kg wet
Analyst: TAJ
Prepared: 6/15/12 17:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0962)		1	06/18/12 16:38		CF21526
Aroclor 1221	ND (0.0962)		1	06/18/12 16:38		CF21526
Aroclor 1232	ND (0.0962)		1	06/18/12 16:38		CF21526
Aroclor 1242	ND (0.0962)		1	06/18/12 16:38		CF21526
Aroclor 1248	ND (0.0962)		1	06/18/12 16:38		CF21526
Aroclor 1254	ND (0.0962)		1	06/18/12 16:38		CF21526
Aroclor 1260	ND (0.0962)		1	06/18/12 16:38		CF21526
Aroclor 1262	ND (0.0962)		1	06/18/12 16:38		CF21526
Aroclor 1268	ND (0.0962)		1	06/18/12 16:38		CF21526

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*41 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*42 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*59 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*79 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School
Client Sample ID: 914120611-09
Date Sampled: 06/11/12 15:30
Percent Solids: N/A
Initial Volume: 1
Final Volume: 10
Extraction Method: 3540

ESS Laboratory Work Order: 1206255
ESS Laboratory Sample ID: 1206255-16
Sample Matrix: Wipe
Units: ug/Wipe
Analyst: TAJ
Prepared: 6/15/12 17:00

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.0)		1	06/18/12 16:57		CF21527
Aroclor 1221	ND (1.0)		1	06/18/12 16:57		CF21527
Aroclor 1232	ND (1.0)		1	06/18/12 16:57		CF21527
Aroclor 1242	ND (1.0)		1	06/18/12 16:57		CF21527
Aroclor 1248	ND (1.0)		1	06/18/12 16:57		CF21527
Aroclor 1254	ND (1.0)		1	06/18/12 16:57		CF21527
Aroclor 1260	ND (1.0)		1	06/18/12 16:57		CF21527
Aroclor 1262	ND (1.0)		1	06/18/12 16:57		CF21527
Aroclor 1268	ND (1.0)		1	06/18/12 16:57		CF21527

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*48 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*52 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*90 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School ESS Laboratory Work Order: 1206255

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch CF21526 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0169*		mg/kg wet	*0.02500*		*67*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0182*		mg/kg wet	*0.02500*		*73*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0215*		mg/kg wet	*0.02500*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0245*		mg/kg wet	*0.02500*		*98*	*30-150*			
LCS										
Aroclor 1016	0.516	0.0500	mg/kg wet	0.5000		103	40-140			
Aroclor 1260	0.442	0.0500	mg/kg wet	0.5000		88	40-140			
Surrogate: Decachlorobiphenyl	*0.0183*		mg/kg wet	*0.02500*		*73*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0200*		mg/kg wet	*0.02500*		*80*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0241*		mg/kg wet	*0.02500*		*96*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0262*		mg/kg wet	*0.02500*		*105*	*30-150*			
LCS Dup										
Aroclor 1016	0.502	0.0500	mg/kg wet	0.5000		100	40-140	3	50	
Aroclor 1260	0.426	0.0500	mg/kg wet	0.5000		85	40-140	4	50	
Surrogate: Decachlorobiphenyl	*0.0175*		mg/kg wet	*0.02500*		*70*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0190*		mg/kg wet	*0.02500*		*76*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0236*		mg/kg wet	*0.02500*		*94*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0256*		mg/kg wet	*0.02500*		*103*	*30-150*			
Batch CF21527 - 3540										
Blank										
Aroclor 1016	ND	1.0	ug/Wipe							
Aroclor 1221	ND	1.0	ug/Wipe							
Aroclor 1232	ND	1.0	ug/Wipe							
Aroclor 1242	ND	1.0	ug/Wipe							
Aroclor 1248	ND	1.0	ug/Wipe							
Aroclor 1254	ND	1.0	ug/Wipe							
Aroclor 1260	ND	1.0	ug/Wipe							
Aroclor 1262	ND	1.0	ug/Wipe							
Aroclor 1268	ND	1.0	ug/Wipe							
Surrogate: Decachlorobiphenyl	*0.337*		ug/Wipe	*0.5000*		*67*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.365*		ug/Wipe	*0.5000*		*73*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School ESS Laboratory Work Order: 1206255

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch CF21527 - 3540										
Surrogate: Tetrachloro-m-xylene	*0.430*		ug/Wipe	*0.5000*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.490*		ug/Wipe	*0.5000*		*98*	*30-150*			
LCS										
Aroclor 1016	10.3	1.0	ug/Wipe	10.00		103	40-140			
Aroclor 1260	8.8	1.0	ug/Wipe	10.00		88	40-140			
Surrogate: Decachlorobiphenyl	*0.366*		ug/Wipe	*0.5000*		*73*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.399*		ug/Wipe	*0.5000*		*80*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.482*		ug/Wipe	*0.5000*		*96*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.525*		ug/Wipe	*0.5000*		*105*	*30-150*			
LCS Dup										
Aroclor 1016	10.0	1.0	ug/Wipe	10.00		100	40-140	3	50	
Aroclor 1260	8.5	1.0	ug/Wipe	10.00		85	40-140	4	50	
Surrogate: Decachlorobiphenyl	*0.351*		ug/Wipe	*0.5000*		*70*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.380*		ug/Wipe	*0.5000*		*76*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.472*		ug/Wipe	*0.5000*		*94*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.513*		ug/Wipe	*0.5000*		*103*	*30-150*			
Batch CF22119 - 3540										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0176*		mg/kg wet	*0.02500*		*70*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0266*		mg/kg wet	*0.02500*		*106*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0194*		mg/kg wet	*0.02500*		*78*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0222*		mg/kg wet	*0.02500*		*89*	*30-150*			
LCS										
Aroclor 1016	0.513	0.0500	mg/kg wet	0.5000		103	40-140			
Aroclor 1260	0.504	0.0500	mg/kg wet	0.5000		101	40-140			
Surrogate: Decachlorobiphenyl	*0.0182*		mg/kg wet	*0.02500*		*73*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0275*		mg/kg wet	*0.02500*		*110*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0228*		mg/kg wet	*0.02500*		*91*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0252*		mg/kg wet	*0.02500*		*101*	*30-150*			
LCS Dup										
Aroclor 1016	0.501	0.0500	mg/kg wet	0.5000		100	40-140	2	50	
Aroclor 1260	0.506	0.0500	mg/kg wet	0.5000		101	40-140	0.4	50	

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School ESS Laboratory Work Order: 1206255

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch CF22119 - 3540										
Surrogate: Decachlorobiphenyl	*0.0183*		mg/kg wet	*0.02500*		*73*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0265*		mg/kg wet	*0.02500*		*106*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0210*		mg/kg wet	*0.02500*		*84*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0240*		mg/kg wet	*0.02500*		*96*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School ESS Laboratory Work Order: 1206255

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: Fuss & O'Neill, Inc.
Client Project ID: Former Woonsocket Middle School

ESS Laboratory Work Order: 1206255

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: Fuss & O'Neill, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 12060255
Date Project Due: 6/21/12
Days For Project: 4 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	No
Cooler Temp: **5.9**		16. Are ESS labels on correct containers?	Yes No
Iced With: **Icepacks**		17. Were samples received intact?	Yes No
6. Was COC included with samples?	Yes	ESS Sample IDs:	
7. Was COC signed and dated by client?	Yes	Sub Lab:	
8. Does the COC match the sample	Yes	Analysis:	
9. Is COC complete and correct?	Yes	TAT:	

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	1	NP
10	Yes	4 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	1	NP
12	Yes	4 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	1	NP
15	Yes	4 oz Soil Jar	1	NP
16	Yes	4 oz Soil Jar	1	NP

Completed By: JK Date/Time: 6/15/12 1012
Reviewed By: [illegible] Date/Time: 6/15/12 1055

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1206255

1062

❑ 146 Hartford Road, Manchester, CT 06040
❑ 56 Quarry Road, Trumbull, CT 06611
❑ 1419 Richland Street, Columbia, SC 29201
❑ 78 Interstate Drive, West Springfield, MA 01089
❑ 50 Redfield Street, Suite 100, Boston, MA 02122
X ~~275 Promenade Street, Suite 350~~, Providence, RI 02908
❑ 80 Washington Street, Suite 301, Poughkeepsie, NY 12601
317 Iron Horse Way Suite 204

CHAIN-OF-CUSTODY RECORD 24492

Turnaround
❑ 1 Day* ❑ 3 Days* ❑ Other _____ (days)
❑ 2 Days* X Standard (____ days) *Surcharge Applies

Project Name	Project Location	Project Number	Laboratory
Former Middle School	Woonsocket, RI	20100607.A20	ESS

Report To: PAT DOWLING, pdowling@fando.com
Invoice To: Cynthia Gianfrancesco, RIDEM
P.O. No.: ~~914~~ 914 20100607 A20
Sampler's Signature: for DUSTIN DEBRACKEER Date: 6/11/12

Source Codes:
MW=Monitoring Well PW=Potable Water S=Soil W=Waste
SW=Surface Water T=Treatment Facility B=Sediment A=Air
X=Other PCB SUBSTRATE Y = BULK MATERIAL (CAULK)

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	~~PCBs~~	PCB by 8082 w/ Soxhlet 3540	Soil VOA Vial, [ ] methanol	Soil VOA Vial, [ ] water	Glass Soil Container (4) oz	Glass Soil Container ( ) oz	Other:	Water VOA Vial, [ ] As is [ ] HCl	Glass Amber ( ) ml, [ ] As is [ ] H_2SO_4	Plastic - As is, [ ] 250 ml [ ] 500 [ ] 1000 ml	Plastic - H_2SO_4, [ ] 250 ml [ ] 500 ml	Plastic - HNO_3, 250 ml [ ] Filtered [ ] Unfiltered	Plastic - NaOH, 250 ml	Comments
1	✓	✓	✓		914120611-01A	X	6/11/12	1130		✓												Rm # 212
2	✓	✓	✓		914120611-01B	X	6/11/12	1030		✓												LIBRARY
3	✓	✓	✓		914120611-01C	X	6/11/12	0945		✓												#501
4	✓	✓	✓		914120611-02	X	6/11/12	1040		✓												Δ LIBRARY
5	✓	✓	✓		914120611-03a	Y		1100		✓												Old gym 3rd ceiling floor
6	✓	✓	✓		914120611-03b	Y		1110		✓												↓
7	✓	✓	✓		914120611-04a	Y		1120		✓												Rm 114 black paper mastic
8	✓	✓	✓		914120611-04b	Y		1125		✓												↓
9	✓	✓	✓		914120611-05a	Y		1145		✓												A side entry Door #1
10	✓	✓	✓		914120611-05b	Y		1200		✓												Stair #2 Door ceiling

Transfer Number	Relinquished By	Accepted By	Date	Time
1		Fed Fedge	6/11/12	1630
2	Fed Fedge		6/12/12	1030
3			6/12/12	1031
4	Fridge	Fedge	6/14/12	15:25
		Skuler	6/15/12	1005

Reporting and Detection Limit Requirements:
- See attached memo

Additional Comments:
- HOLD ALL SAMPLES for 2nd extraction if needed.
- See memo (attached)
- Complete QC checklist (attached)

Cooler Temp's 5.9°c

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☐ 50 Redfield Street, Suite 100, Boston, MA 02122
☒ ~~275 Promenade Street, Suite 350~~, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY 12601
317 Iron Horse Way Suite 204

2062

CHAIN-OF-CUSTODY RECORD 24783

Turnaround
☐ 1 Day* ☐ 2 Days* ☐ 3 Days* ☒ Standard (____ days) ☐ Other ______ (days)
*Surcharge Applies

PROJECT NAME: Former Middle School
PROJECT LOCATION: Woonsocket, RI
PROJECT NUMBER: 20100607.A2d
LABORATORY: ESS

REPORT TO: Pat Dowling, pdowling@fando.com
INVOICE TO: Cynthia Gianfrancesco, RIDEM
P.O. No.: 91420100607A20
Sampler's Signature: [signature] For Dustin Dickmeyer Date: 6/11/12

Source Codes:
MW=Monitoring Well PW=Potable Water S=Soil W=Waste
SW=Surface Water T=Treatment Facility B=Sediment A=Air
X=Other ~~[illegible]~~ Y = BULK MATERIAL (CAULK) Z = wipe sample

Analysis Request: PCB by 8082 w/ Soxhlet 3540

Containers: Soil VOA Vial, [ ] methanol; Soil VOA Vial, [ ] water; Glass Soil Container (4) oz; Glass Soil Container ( ) oz; Other: [ ] Na(SO4)2; Water VOA Vial, [ ] As is [ ] HCl; Glass Amber ( ) ml, [ ] As is [ ] H2SO4; Plastic - As is, [ ] 250 ml [ ] 500 [ ] 1000 ml; Plastic - H2SO4, [ ] 250 ml [ ] 500 ml; Plastic - HNO3, 250 ml [ ] Filtered [ ] Unfiltered; Plastic - NaOH, 250 ml

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	PCB by 8082 w/ Soxhlet 3540	Comments
11	✓	✓	✓		914120611-06	Y	6/11/12	1215	✓	Door caulk #2 Stair
12	✓	✓	✓		-07a	Y	↓	1430	✓	Ground window entry #1
13	✓	✓	✓		-07b	Y	↓	1500	✓	↓
14	✓	✓	✓		-08a	Y	↓	1330	✓	#5 Main door (D-2) (center) exterior caulk
15	✓	✓	✓		-08b	Y	↓	1345	✓	#5 Main Door (D-3) exterior caulk
16	✓	✓	✓		-09	Z	↓	1530		chisel wipe sample

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	[signature] Fridge	6/11/12	1630
2	[signature] Fridge	[signature]	6/14/12	1030
3	[signature]	[signature]	6/14/12	1031
4	[signature]	Fridge	6/14/12	15:25
	Fridge	[signature]	6/15/12	1045

Reporting and Detection Limit Requirements:
- See attached memo

Additional Comments:
- HOLD ALL SAMPLES FOR ADDITIONAL EXTRACTION IF NEEDED
- See memo (attached)
- Complete QC checklist (attached)

Cooler Temp 5.9°C

1206255

FUSS & O'NEILL

INITIAL DATE: OCTOBER 2011
REVISION DATE: FEBRUARY 2012
REVISION: 1.0

GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST ORGANIC COMPOUNDS

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**

		YES	NO	COMMENTS
1.	SDG Project Narratives	☒	☐	
2.	Traffic Report	☒	☐	BARCODE
3.	Volatiles Data			
a.	Sample Data			
	Target Compound List (TCL) Results	☐	☐	N/A
	Reconstructed total ion chromatograms (RIC) for each sample	☐	☐	
	For each sample:			
	Raw spectra and background-subtracted mass spectra of target compounds identified	☐	☐	
	Mass spectra of all reported TICs with three best library matches	☐	☐	
	Percent solids calculations	☐	☐	
b.	Standards Data (all instruments)			
	Initial Calibration Data	☐	☐	
	RICs and Quan Reports for all Standards	☐	☐	
	Continuing Calibration	☐	☐	
	RICs and Quan Reports for all Standards	☐	☐	↓
	Internal Standard Area Summary	☐	☐	N/A
c.	Raw QC Data			
	Blank Data	☐	☐	N/A
	Matrix Spike Data	☐	☐	↓
	Matrix Spike Duplicate Data	☐	☐	N/A
4.	Semivolatiles Data			
a.	QC Summary			
	Surrogate Percent Recovery Summary	☒	☐	
	MS/MSD Summary	☐	☒	N/A
	Method Blank Summary	☒	☐	
	Tuning and Mass Calibration	☐	☒	N/A

**GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
ORGANIC COMPOUNDS
(Continued)**

	PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**		
	YES	NO	COMMENTS
b. Sample Data			
TCL Results	☒	☐	
Tentatively Identified Compounds	☐	☒	N/A
Reconstructed total ion chromatograms (RIC) for each Sample	☐	☒	N/A
For each sample:			
Raw spectra and background-subtracted mass spectra of TCL compounds	☐	☒	N/A
Mass spectra of TICs with 3 best library matches	☐	☒	N/A
GPC chromatograms (if GPC performed)	☐	☒	N/A
c. Standards Data (all instruments)			
Initial Calibration Data	☒	☐	
RICs and Quan Reports for all Standards	☐	☒	N/A
Continuing Calibration	☒	☐	
RICs and Quan Reports for all Standards	☐	☒	N/A
Internal Standard Areas Summary	☐	☒	N/A
Internal Standard Areas Summary	☐	☒	N/A
d. Raw QC Data			
Decafluorotripbenylphosphine (DFTPP)	☐	☒	N/A
Blank Data	☒	☐	
Matrix Spike Data	☐	☒	N/A
Matrix Spike Duplicate Data	☐	☒	N/A
5. Miscellaneous Data			
Original preparation and analysis forms or copies of preparation and analysis log book pages	☒	☐	
Internal sample & sample extract transfer chain-of custody records	☒	☐	
Screening Records	☐	☒	N/A
All instrument output, including strip charts from screening activities (describe or list)	☒	☐	

1206255

FUSS & O'NEILL

INITIAL DATE: OCTOBER 2011
REVISION DATE: FEBRUARY 2012
REVISION: 1.0

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
ORGANIC COMPOUNDS
(Continued)

		PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**		
		YES	**NO**	**COMMENTS**
6.	Chain-of-Custody Records	☒	☐	
	Sample Log-in Sheet (Lab & DC1)	☒	☐	
	Miscellaneous Shipping/Receiving Records (describe or list) COOLER RECEIPT FORM	☒	☐	
7.	Internal Lab Sample Transfer Records and Tracking Sheets (describe or list) BARCODE	☒	☐	
8.	Other Records (describe or list)	☐	☒	
9.	Comments:			

** See laboratory Quality Assurance Plan for limits.

Completed by: (Lab) L A Stoddard (Signature) LAUREL STODDARD (Printed Name/Title) LAB DIRECTOR 7/17/12 Date

I certify that the above information is true and accurate. I further certify that all laboratory results associated with the above analyses will be made available for review for seven (7) years following certification of this document.

Certified by: (Lab) L A Stoddard (Signature) LAUREL STODDARD (Printed Name/Title) LAB DIRECTOR 7/17/12 Date

Appendix H

Hazardous Materials Abatement Cost Estimate

FUSS & O'NEILL

Hazardous Materials Abatement Cost Estimate

A hazardous materials abatement cost estimate is provided below. Unit costs are based on current industry rates and are inclusive of all contractor costs. They do not include costs for design, monitoring, sampling, and other consultant fees. This estimate only accounts for those materials tested and analyzed as part of this assessment. Previously unidentified, hidden, or otherwise untested materials are not accounted for in the table below, and therefore the potential abatement costs are not quantified. Any untested potential asbestos containing materials should be presumed to be asbestos until proven otherwise. Of particular note, the asbestos assessment documented herein did not include sampling or analysis of roofing system components.

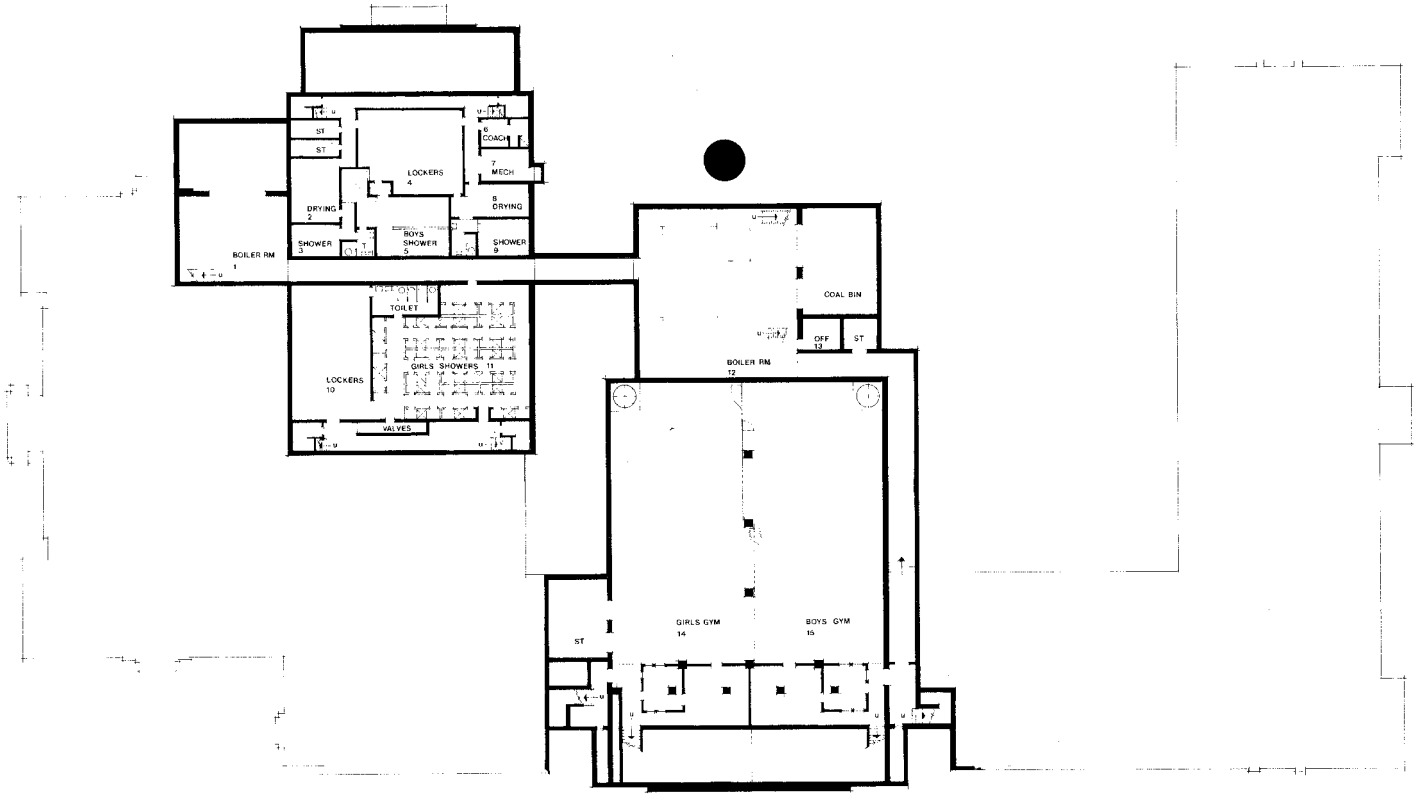
Table 12
Estimated Cost for Hazardous Materials Abatement

Material	Estimated Quantity	Unit Cost	Total Cost
9x9 / 12x12 Floor Tile (All Layers) & Associated Mastics (Includes Removal of Plywood Underlayment & Flooring Layers)	150,000 SF	$5/SF	$750,000
AirCell, Pre-Formed Block Type Insulation & Associated Mudded Fittings (Includes Boiler Tunnels, Boiler Breeching, Classroom Risers, Mechanical Areas, Basement Wings)	10,000 SF	$15/SF	$150,000
Caulk at Brick Molding Concealed underneath Aluminum Window Frames	All Windows (Approx. 646 EA)	$500/EA	$323,000
Boiler Demolition: Includes Removal of All Interior Boiler Debris, Concealed Interior Friable Components, Interior Door Blocking, Firebrick, Millboard, Rib-Sealant Material, Boiler Foundation, and Associated Gaskets, etc.	4 EA (10'x22'x12'h / Boiler)	Lump Sum	$50,000
Friable Insulation & Cement Overcoat at Top of Boilers	1,100 SF	$20/SF	$22,000
Asbestos Debris on Concrete Floor (Small Boiler Room)	500 SF	$10/SF	$5,000
Cement Fiber Board (Transite Panels)	1,550 SF	$10/SF	$15,500
Cement Fiber Board Associated with Classroom Chalkboards	10 EA	$1,000/EA	$10,000
Sink Undercoating Material at Classrooms	12 EA	$175/EA	$2,100
2" Brown Vinyl Baseboard & Associated Mastic at Classrooms	1,500 LF	$3/LF	$4,500

Material	Estimated Quantity	Unit Cost	Total Cost
4" Reddish-Brown Vinyl Baseboard & Associated Mastic	2,000 LF	$3/LF	$6,000
6" (Thick) Black Vinyl Baseboard & Associated Mastic at Classrooms	700 LF	$3/LF	$2,100
Yellow Mastic Associated with Ceramic Floor Tile at Girls Locker Room (Old Gym)	750 SF	$5/SF	$3,750
Brown Glue Daubs Associated with Luan Wall Paneling at Offices	3,000 SF	$7/SF	$21,000
Tan Glue Strips On Wood at Classrooms	2,000 SF	$4/SF	$8,000
Window-Glazing Compound Associated with (Interior) Hallway Doors at Classroom Wings	10 EA	$300/EA	$3,000
Allowance for cleaning and disposal of mold contaminated materials at limited locations		Lump Sum	$15,000
OSHA Lead Compliance during renovation and demolition work		Lump Sum	$25,000
Potential Disposal of Lead Waste from demolition and disposal of removed components and surfaces		Lump Sum	$30,000
Hg Disposal for Switches and Thermostats		Lump Sum	$5,000
Hg Lamps & PCB-Containing Lighting Ballasts (Assumed) – No Inventory Conducted		Lump Sum	$25,000
		SUBTOTAL	$1,475,950
		(~15%) CONTINGENCY	$221,400
		TOTAL	$1,697,350

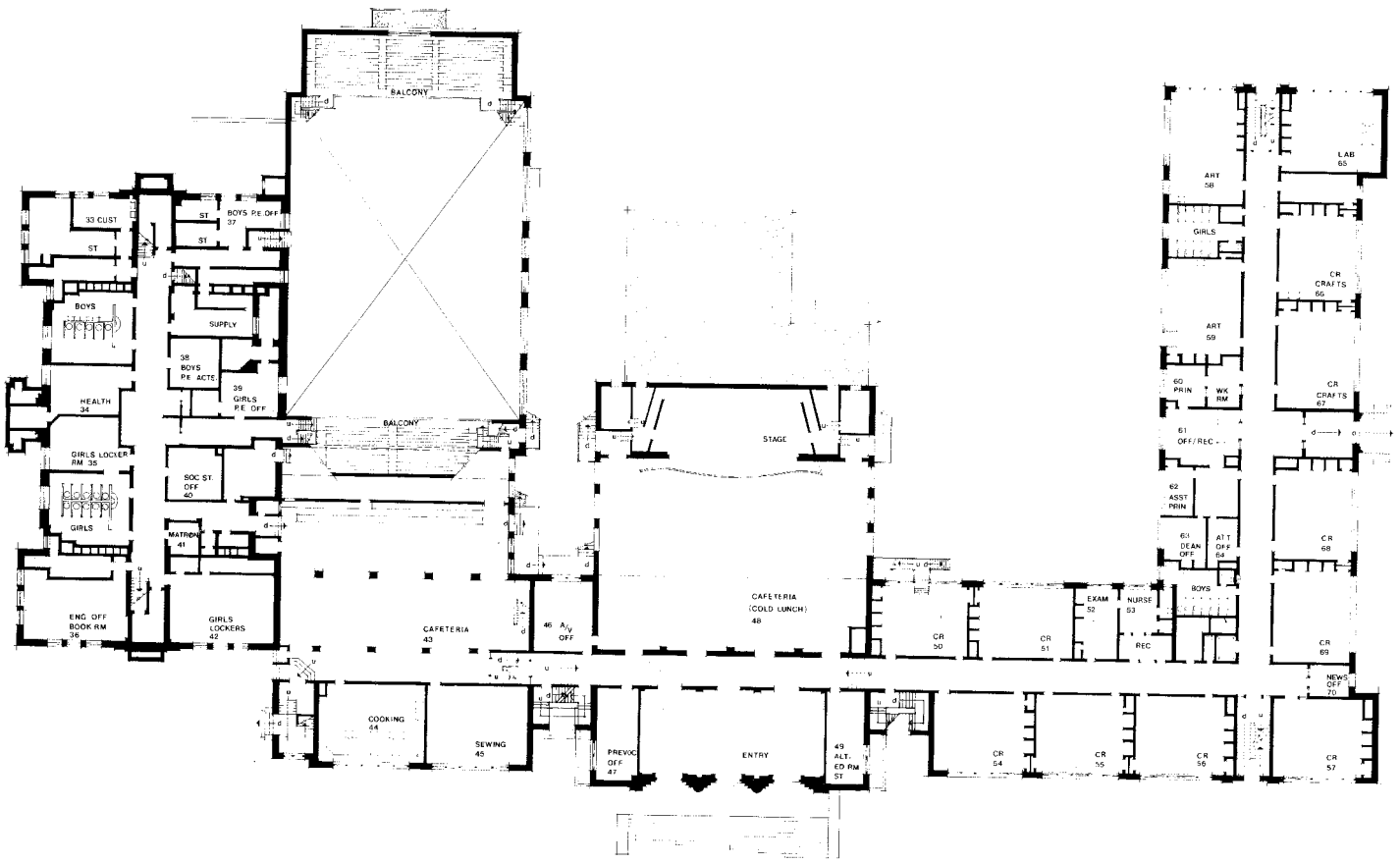
Appendix I

Facility Floor Plan



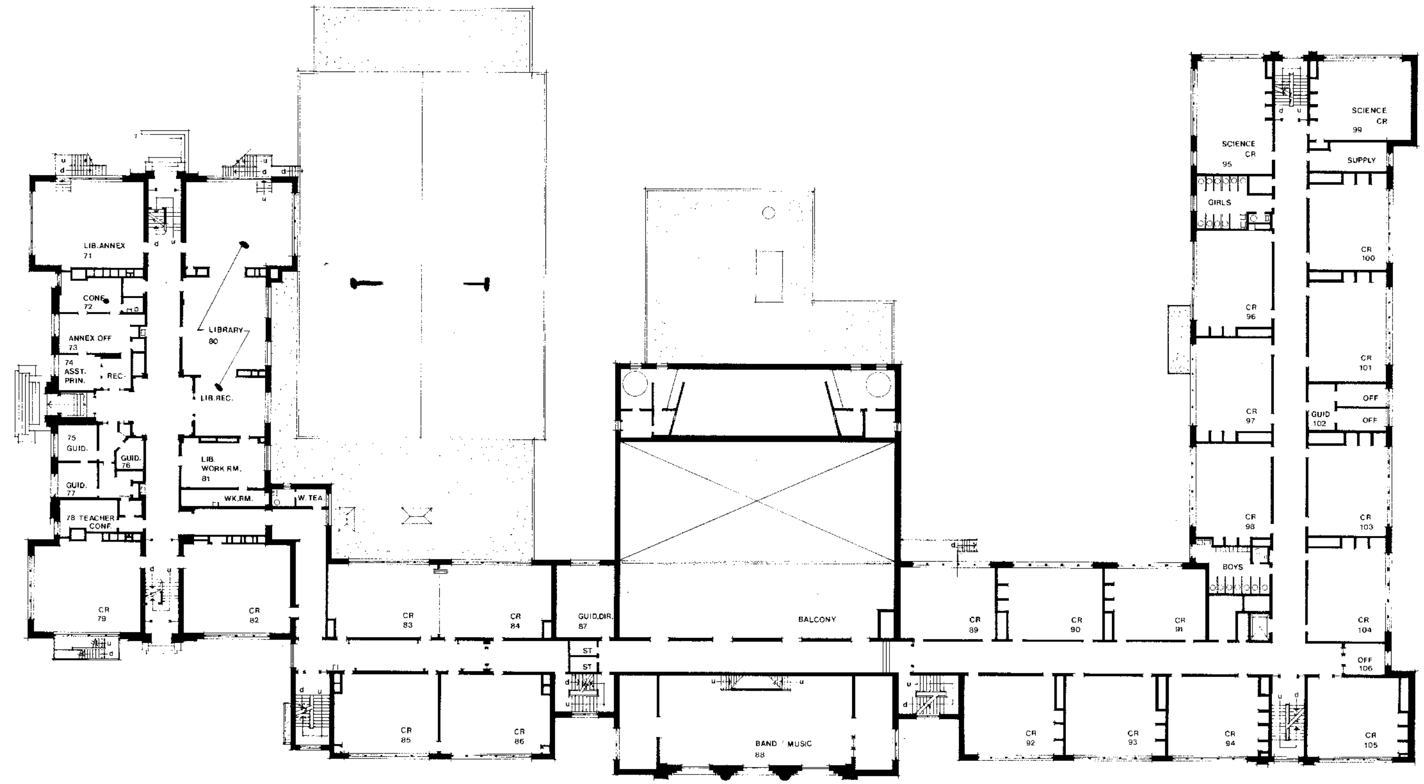
Basement

#71-900



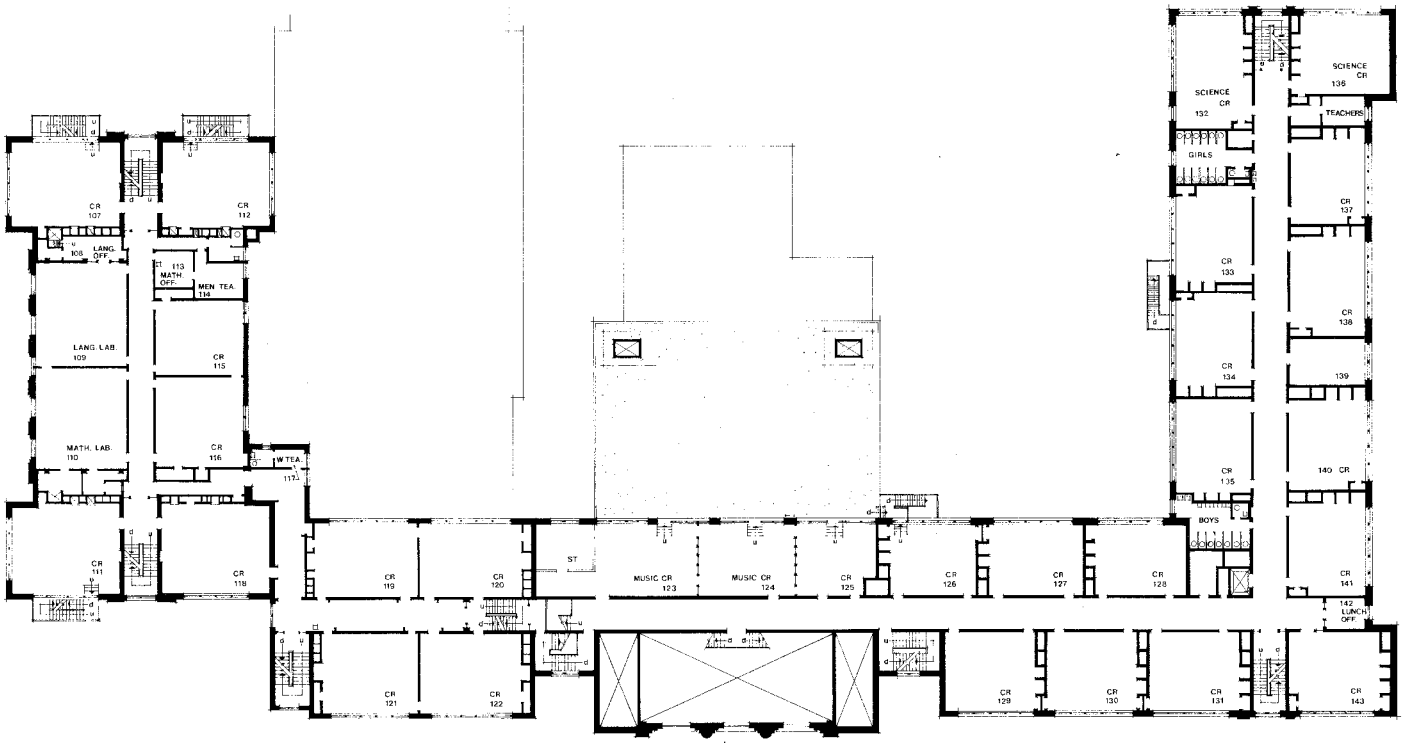
1st Flr.

#711-900



Second Flr.

#71-900



3rd Flr.

#71-900

162 ST
ART 161
ART 160
ART 159
158 OFF.
CR 155
CR 157
CR 154
CR 156
SUPPLY
LAB. 148
TEACHERS 150
LAB. 151
152 PREP RM.
153 LAB.
149 SCI. OFF.
TYPING 144
ST
ST
CR 145
CR 146
CR 147
BK. ST.
153 LAB.

FUSS & O'NEILL

Appendix D

Soil Boring Logs

Project Name: **Former Middle School**
Project Location: **Woonsocket, Rhode Isand**

Site Id: SB-01
Project Number: 2010-0607 A20

FUSS & O'NEILL
Disciplines to Deliver
317 IRON HORSE WAY, SUITE 204, PROVIDENCE, RI 02908

Location: **S corner of site**
Description: **Soil Boring**
Date(s): **06/28/11 – 06/28/11**
Total Depth: **9.00'**
Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.000**
Coordinate Y: **0.000**
Logged By: **S. Hubbs**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **2.25in**

Remarks: Field Instrument: PID #1
Attempted boring with solid point 6.0 feet NE and got refusal at 9.0 feet.

Back Fill:

type: Asphalt	fm: 0.00'	to: 0.20'
type: Native Material	fm: 0.20'	to: 9.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	PID
0		N/A -07		0–0.2': ASPHALT. 0.2–3.0': SAND, F; little M sand; trace gravel; trace silt; dark brown (10YR 3/4), dry. 3.0–5.0': Sand, F–M and gravel; light yellowish brown (2.5Y 6/3), dry. Loose.		AS	0 ppm
-2	2						
		N/A					0 ppm
-4	4						
		-08		Sand, F–M and gravel; light yellowish brown (2.5Y 6/3), dry. Loose.		SW	0 ppm
-6	6						
-8	8						
				Refusal and end of boring at 9.0 feet.			
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Checked By: SAH

Project Name: **Former Middle School**
Project Location: **Woonsocket, Rhode Island**

Site Id: **SB-02**
Project Number: **2010-0607 A20**

FUSS & O'NEILL
Disciplines to Deliver
317 IRON HORSE WAY, SUITE 204, PROVIDENCE, RI 02908

Location: **SW corner of site**
Description: **Soil Boring**
Date(s): **06/28/11 – 06/28/11**
Total Depth: **39.00'**
Remarks: Field Instrument: PID #1
No refusal.

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.000**
Coordinate Y: **0.000**

Logged By: **S. Hubbs**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe(2.25)/Geoprobe Solid Point(1.5)**

Driller: **D. Levesque**
Borehole Dia.: **1.50in**

Back Fill:

type: Asphalt	fm: 0.00'	to: 0.40'
type: Native Material	fm: 0.40'	to: 39.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	PID
0		N/A -05		0–0.4': ASPHALT. 0.4–5.0': Sand, F–M and gravel; light yellowish brown (2.5Y 6/3), dry. Loose.		AS	0 ppm
-2	2						
-4	4						
		N/A		Sand, F–M and gravel; light yellowish brown (2.5Y 6/3), dry. Loose.			0 ppm
-6	6					SW	
-8	8						
-10	10	N/A		10–11': Sand, F–M and gravel; light yellowish brown (2.5Y 6/3), dry. Loose. 11–12': SAND, F, light yellowish brown (2.5Y 6/3), dry. 12–15': Sand, F–M and gravel; light yellowish brown (2.5Y 6/3), dry. Loose.			0 ppm
							0 ppm
-12	12					SP	0 ppm
-14	14						
		N/A		Sand, F–M and gravel; light yellowish brown (2.5Y 6/3), dry. Loose.			0 ppm
-16	16						
-18	18						

Checked By: SAH

Project Name: **Former Middle School**
Project Location: **Woonsocket, Rhode Isand**

Site Id: SB–02
Project Number: **2010–0607 A20**

FUSS & O'NEILL
Disciplines to Deliver
317 IRON HORSE WAY, SUITE 204, PROVIDENCE, RI 02908

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	PID
−20	20	-06		Sand, F–M and gravel; light yellowish brown (2.5Y 6/3), dry. Loose.			0 ppm
−22	22						
−24	24			Refusal for sampler.			
−26	26					SW	
−28	28						
−30	30						
−32	32						
−34	34						
−36	36						
−38	38						
				End of boring at 39 feet.			
−40	40						

Project Name: **Former Middle School**
Project Location: **Woonsocket, Rhode Isand**

Site Id: **SB–03**
Project Number: **2010–0607 A20**

FUSS & O'NEILL
Disciplines to Deliver
146 HARTFORD ROAD, MANCHESTER, CONNECTICUT 06040

Location: **SW of boiler room**
Description: **Soil Boring**
Date(s): **06/28/11 – 06/28/11**
Total Depth: **13.00'**
Remarks: Field Instrument: PID #1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.000**
Coordinate Y: **0.000**

Logged By: **S. Hubbs**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **2.25in**

Back Fill:

type: Concrete	fm: 0.00'	to: 0.30'
type: Native Material	fm: 0.30'	to: 13.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	PID
0		N/A		0–0.3': CONCRETE.		CR	0 ppm
				0.3–0.8': SAND, F–M; little coal/coal ash; black (10YR 2/1), dry. Loose. (Fill).		FI	
		-03		0.8–5.0': Sand, F–M and gravel; light yellowish brown (2.5Y 6/3), dry. Loose.			0 ppm
-2	2						
-4	4						
		N/A		Sand, F–M and gravel; light yellowish brown (2.5Y 6/3), dry. Loose.			0 ppm
-6	6						
						SW	
-8	8						
-10	10	-04		Sand, F–M and gravel; light yellowish brown (2.5Y 6/3), dry. Loose.			0 ppm
-12	12						
				Refusal and end of boring at 13 feet.			
-14	14						
-16	16						
-18	18						

Checked By: SAH

Project Name: **Former Middle School**
Project Location: **Woonsocket, Rhode Island**

Site Id: **SB-04**
Project Number: **2010-0607 A20**

FUSS & O'NEILL
Disciplines to Deliver
317 IRON HORSE WAY, SUITE 204, PROVIDENCE, RI 02908

Location: **Center lot utility area**
Description: **Soil Boring**
Date(s): **06/28/11 – 06/28/11**
Total Depth: **14.50'**
Remarks: Field Instrument: PID #1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.000**
Coordinate Y: **0.000**

Logged By: **S. Hubbs**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**

Driller: **D. Levesque**
Borehole Dia.: **2.25in**

Back Fill:

type: Asphalt	fm: 0.00'	to: 0.20'
type: Native Material	fm: 0.20'	to: 14.50'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	PID
0		N/A		0–0.2': ASPHALT.		AS	0 ppm
		-02		0.2–1.0': SAND, F–M; little coal/coal ash; trace concrete; black (10YR 2/1), dry. Loose. (Fill).		FI	
-2	2			1.0–5.0': Sand, M and gravel; little F sand; trace silt; light yellowish brown (2.5Y 6/3), dry. Loose.			0 ppm
-4	4						
		N/A		Sand, F–M and gravel; light yellowish brown (2.5Y 6/3). Loose.			0 ppm
-6	6						
-8	8					SW	
-10	10	N/A		Sand, F–M and gravel; light yellowish brown (2.5Y 6/3). Loose.			0 ppm
-12	12						
-14	14						
				BOULDER. Refusal and end of boring at 14.5 feet.		BD	
-16	16						
-18	18						

Checked By: SAH

Project Name: **Former Middle School**
Project Location: **Woonsocket, Rhode Island**

Site Id: **SB-05**
Project Number: **2010-0607 A20**

FUSS & O'NEILL
Disciplines to Deliver
317 IRON HORSE WAY, SUITE 204, PROVIDENCE, RI 02908

Location: **Center parking lot SE**
Description: **Soil Boring**
Date(s): **06/28/11 – 06/28/11**
Total Depth: **16.50'**
Remarks: Field Instrument: PID #1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.000**
Coordinate Y: **0.000**

Logged By: **S. Hubbs**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Back Fill:
type: Asphalt fm: 0.00' to: 0.20'
type: Native Material fm: 0.20' to: 16.50'
type: fm: to:
type: fm: to:
type: fm: to:

Driller: **D. Levesque**
Borehole Dia.: **2.25in**

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	PID
0		N/A -01		0–0.2': ASPHALT. 0.2–5.0': Sand, F–M and gravel; dark brown (10YR 3/3), dry. Loose.		AS	0 ppm
-2	2	N/A					
-4	4						
		N/A		Sand, F–M and gravel; light yellowish brown (2.5Y 6/3), dry. Loose.			0 ppm
-6	6						
-8	8					SW	
-10	10	N/A		Sand, F and gravel; some M sand; trace silt; light yellowish brown (2.5Y 6/3), dry. Loose.			0 ppm
-12	12						
-14	14						
		N/A		Sand, F and gravel; some M sand; trace silt; light yellowish brown (2.5Y 6/3), dry. Loose.			0 ppm
-16	16						
				BOULDER. Refusal and end of boring at 16.5 feet.		BD	
-18	18						

Checked By: SAH

Project Name: **Former Middle School**
Project Location: **Woonsocket, Rhode Isand**

Site Id: SB–06
Project Number: 2010–0607 A20

FUSS & O'NEILL
Disciplines to Deliver
317 IRON HORSE WAY, SUITE 204, PROVIDENCE, RI 02908

Location: **NE corner of site**
Description: **Soil Boring**
Date(s): **06/28/11 – 06/28/11**
Total Depth: **8.00'**
Remarks: Field Instrument: PID #1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.000**
Coordinate Y: **0.000**

Logged By: **S. Hubbs**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Back Fill:
type: Asphalt fm: 0.00' to: 0.80'
type: Native Material fm: 0.80' to: 8.00'
type: fm: to:
type: fm: to:
type: fm: to:

Driller: **D. Levesque**
Borehole Dia.: **2.25in**

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	PID
0		N/A		0–0.8': ASPHALT.		AS	
		-11, -12		0.8–5.0': Sand, M–C and gravel; trace F sand; light yellowish brown (2.5Y 6/3), moist.			0 ppm
-2	2						
-4	4					SW	
		N/A		5.0–7.0': Sand, M–C and gravel; trace F sand; light yellowish brown (2.5Y 6/3), moist.			0 ppm
-6	6			7.0–8.0': SAND, M; trace gravel; light yellowish brown (2.5Y 6/3), moist.			
		-13					0 ppm
-8	8			Refusal and end of boring at 8.0 feet.		SP	
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Checked By: SAH

Project Name: **Former Middle School**
Project Location: **Woonsocket, Rhode Isand**

Site Id: SB–07
Project Number: 2010–0607 A20

FUSS & O'NEILL
Disciplines to Deliver
317 IRON HORSE WAY, SUITE 204, PROVIDENCE, RI 02908

Location: **N end of site**
Description: **Soil Boring**
Date(s): **06/28/11 – 06/28/11**
Total Depth: **5.50'**

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.000**
Coordinate Y: **0.000**

Logged By: **S. Hubbs**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**

Driller: **D. Levesque**
Borehole Dia.: **2.25in**

Remarks: Field Instrument: PID #1
Confirmed with boring 10 feet east refusal at 4.0 feet.

Back Fill:

type: Asphalt	fm: 0.00'	to: 0.20'
type: Native Material	fm: 0.20'	to: 5.50'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	PID
0		N/A –09		0–0.2': ASPHALT.		AS	0 ppm
				0.2–5.0': Sand, F–M and gravel; light yellowish brown (2.5Y 6/3), dry. Loose.			
–2	2					SW	
–4	4						
		–10		Sand, F–M and gravel; light yellowish brown (2.5Y 6/3), moist. Loose.			0 ppm
–6	6			Refusal and end of boring at 5.5 feet.			
–8	8						
–10	10						
–12	12						
–14	14						
–16	16						
–18	18						

Checked By: SAH

Project Name: **Former Middle School**
Project Location: **Woonsocket, Rhode Island**

Site Id: **SB-08**
Project Number: **2010-0607 A20**

FUSS & O'NEILL
Disciplines to Deliver
317 IRON HORSE WAY, SUITE 204, PROVIDENCE, RI 02908

Location: **N corner of site**
Description: **Soil Boring**
Date(s): **06/28/11 – 06/28/11**
Total Depth: **7.00'**
Remarks: Field Instrument: PID #1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.000**
Coordinate Y: **0.000**

Logged By: **S. Hubbs**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**

Driller: **D. Levesque**
Borehole Dia.: **2.25in**

Back Fill:

type: Asphalt	fm: 0.00'	to: 0.20'
type: Native Material	fm: 0.20'	to: 7.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	PID
0		N/A -14		0–0.2': ASPHALT. 0.2–5.0': Sand, F–M and gravel; light yellowish brown (2.5Y 6/3), dry.		AS	0 ppm
-2	2	N/A					
-4	4					SW	
		-15		Sand, F–M and gravel; light yellowish brown (2.5Y 6/3), dry. Loose.			0 ppm
-6	6						
				Refusal and end of boring at 7.0 feet.			
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Checked By: SAH

FUSS & O'NEILL

Appendix E

Laboratory Analytical Reports and Quality Control Certifications

Modified Tier II
Data Validation Narrative

Project: 20100607.A20
Site Investigation/Targeted Brownfields Assessment
Former Woonsocket Middle School

Premier Laboratory Project Number:	E106J35
Date Samples Received at Laboratory:	June 29, 2011
Date of Review:	November 7, 2012

Fifteen soil samples, including one duplicate sample, were collected and submitted to Premier Laboratory, Inc. (Premier) for the following analyses:

- Volatile organic compounds (VOC) by the United States Environmental Protection Agency (USEPA) Method 8260
- Semi-volatile organic compounds (SVOC) by USEPA Method 8270
- Polychlorinated biphenyls (PCBs) by USEPA Method 8082
- Total Petroleum Hydrocarbons (TPH) by USEPA Method 8100
- Sixteen Metals by USEPA Methods 6010B/7471A including arsenic, barium, cadmium, chromium, lead, selenium, silver, zinc, vanadium, thallium, nickel, manganese, copper, beryllium, antimony, and mercury

In addition, two laboratory-supplied trip blanks, including one methanol-preserved and one hydrochloric acid-preserved trip blank, were submitted for analysis of VOC by USEPA Method 8260. Dedicated sampling equipment was utilized, so equipment blanks and field blanks were not collected during these sampling activities.

No compounds were detected in the trip blanks at concentrations exceeding laboratory detection limits. Samples were received by the laboratory at 2.8 degrees Celsius, and all samples were analyzed within the method-specific holding times.

As documented in the case narrative included in the analytical report, the following non-conformances pertaining to performance of internal standards were identified:

- Internal standards associated with analysis of SVOC in two samples were below quality control limits, suggesting that SVOC results for these samples may be biased low.
- Internal standards associated with analysis of VOC in one sample were less than quality control limits, suggesting that VOC results for these samples may be biased low.

The performance issues associated with the internal standards summarized above were reportedly attributable to matrix interference. However, each of the two samples associated with the non-conformances related to SVOC analysis contained concentrations of multiple SVOC that were significantly less than the applicable regulatory criteria. Additionally, no VOC were detected at concentrations exceeding detection limits in the one sample affected by this nonconformance. For these reasons, the non-conformances related to performance of internal standards were not anticipated to affect the usability of the data, as conclusions regarding compliance or non-compliance of the affected samples with applicable regulatory criteria were able to be made, despite potential bias.

The following non-conformances pertaining to surrogate recoveries were also identified in the case narrative for this analytical report:

- Recoveries of surrogates utilized during analysis of SVOC in one sample were outside quality control range.
- Recoveries of surrogates utilized during analysis of VOC in one sample were outside quality control range.

The surrogate recovery issues summarized above were reportedly attributable to matrix interference and suggest that analytical data for the affected samples may be biased high or low. However, the associated with the non-conformances related to SVOC analysis contained concentrations of multiple SVOC that that were significantly less than the applicable regulatory criteria. Additionally, VOC were not detected at concentrations exceeding laboratory reporting limits in the one sample affected by this nonconformance. For these reasons, the non-conformances related to recovery of surrogate compounds were not anticipated to affect the usability of the data, as conclusions regarding compliance or non-compliance of the affected samples with applicable regulatory criteria were able to be made, despite potential bias.

Only metals and TPH were detected at concentrations exceeding laboratory detection limits in both the primary and duplicate sample. Relative percent differences (RPDs) calculated using data for the primary and duplicate samples were generally below 30% with the exception of those calculated using data for TPH. The RPD for TPH was 35%. No other analytes were detected at concentrations exceeding laboratory detection limits in both the primary and duplicate sample. Soil at the boring location where the primary and duplicate samples were collected was reported to contain medium to coarse sand and gravel. Therefore, the elevated RPDs (i.e. greater than 30%) are likely due to heterogeneous distribution of contaminants and soil types within the samples.

Analytical results for the soil samples were compared to the Method 1 Residential Direct Exposure Criteria (R-DEC) and GB Leachability Criteria promulgated by the Rhode Island Department of Environmental Management. The detection limits for the tested analytes were low enough to allow direct comparison to these criteria.

FUSS & O'NEILL

INITIAL DATE: OCTOBER 2011
REVISION DATE: FEBRUARY 2012
REVISION: 1.0

E106J35

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
MODIFIED TIER I COMPLETENESS CHECKLIST

	YES	NO
1. SAMPLING AND FIELD MEASUREMENTS:		
Field measurement calibration records	☒	☐
Groundwater field measurements (if applicable)	☐	☐ N/A
Soil sampling field measurements (if applicable)	☒	☐
Sediment sampling field measurements (if applicable)	☐	☐ N/A
Surface water sampling field measurements (if applicable)	☐	☐ ↓
Low-flow sampling field measurements (if applicable)	☐	☐
Documentation of field activities	☒	☐
Sample numbering and labeling	☒	☐
Chain-of-Custody records	☒	☐
Trip blanks	☒	☐
Duplicate samples	☒	☐
Equipment blanks	☐	☐ N/A
Split samples (if any)	☐	☐ ↓
2. LABORATORY MEASUREMENTS:		
Trip blanks	☒	☐
Instrument blanks	☒	☐
Laboratory control samples	☒	☐
Duplicates samples	☒	☐
Equipment blanks	☐	☐ N/A
Matrix spike/matrix spike duplicates	☐	☐ ↓
Analysis type	☒	☐
Chain-of-Custody records	☒	☐
Surrogate recoveries	☒	☐
Sample Project Narratives	☒	☐
Split samples (if any)	☐	☐ N/A

TOTAL: 15 —

PERCENT COMPLETE: 100 %

INITIAL DATE: OCTOBER 2011
REVISION DATE: FEBRUARY 2012
REVISION: 1.0

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

1. SAMPLING AND FIELD MEASUREMENTS:	YES	NO	COMMENTS
Field measurement calibration records			
pH - ± 0.3 pH units	☐	☐	N/A
S.C. - ± 5% of calibration solution, within?			
calibration range	☐	☐	
Temperature - ± 0.5 °C	☐	☐	
D.O. - ± 5% of calibration solution	☐	☐	
Groundwater field measurements (if applicable)			
Water depth measured to within 0.01 ft.?	☐	☐	
Soil sampling field measurements (if applicable)			
OVM - ± 2 ppm	☒	☐	
OVA - ± 2 ppm	☐	☐	N/A
Sediment sampling field measurements (if applicable)			
Descriptive information recorded?	☐	☐	
Surface water sampling field measurements (if applicable)			
Water depth measured to within 0.01 ft.?	☐	☐	
Low-flow sampling field measurements (if applicable)			
S.C. - ± 10%	☐	☐	
pH - ± 0.2 pH units	☐	☐	
Temperature - ± 10%	☐	☐	
Turbidity - ±5 NTU	☐	☐	
Documentation of field activities			
Site-specific information documented in field notebook?	☒	☐	
Field data sheets completed?	☒	☐	
Sample numbering and labeling			
Sample numbering conforms to sample I.D. system identified in QAPP?	☒	☐	
Chain-of-Custody records			
Chain-of-Custody forms completed?	☒	☐	

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST
(Continued)

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

	YES	NO	COMMENTS
Trip blanks			
Trip blanks submitted, one per day?	☒	☐	
Any compounds detected in trip blanks?	☐	☒	
Duplicate samples			
Field duplicates performed, 1/20 samples?	☒	☐	
Duplicates performed on 10% of samples screened for explosives?	☐	☐	N/A
Is percent difference within 30% for all field parameters?	☒	☐	
Equipment blanks			
Equipment blanks submitted, one per sampling day?	☐	☐	N/A
Any compounds detected in equipment blank?	☐	☐	↓
Split samples (if any)			
Split samples collected?	☐	☐	↓
Is percent difference within 30% for split samples?	☐	☐	↓

2. LABORATORY MEASUREMENTS:

Trip blanks			
Trip blanks submitted, one per day?	☒	☐	
Any compounds detected in trip blanks?	☐	☒	
Instrument blanks**	☒	☐	
Laboratory control samples**	☒	☐	
Duplicates samples**	☒	☐	
Equipment blanks**	☐	☐	N/A
Matrix spike/matrix spike duplicates**	☐	☐	↓
Analysis type	☒	☐	
Chain-of-Custody records	☒	☐	
Surrogate recoveries**	☐	☒	see narrative
Sample Project Narratives	☒	☐	
Split samples (if any)**	☐	☐	N/A
Most recent EPA WP-PE sample results**	☐	☐	J

Premier
Laboratory, Inc

61 Louisa Viens Drive
Dayville, CT 06241
Fax: 860-774-2689
Phone: 860-774-6814
Toll-Free: 800-334-0103

ANALYTICAL DATA REPORT

prepared for:

Fuss & O'Neill, Inc.
317 Iron Horse Way
Suite 204
Providence, RI 02908
Attn: Pat Dowling

Report Number: E106J35
Project: 20100607.A20/ Former Middle School

Received Date: 06/29/2011
Report Date: 07/11/2011

Premier Laboratory, Inc
Authorized Signature

Certified and Compliant with:
CT (PH-0465), EPA (CT00008), MA (M-CT008), ME (CT0050), NH (2020), NJ (CT007), NY (11549), PA (68-04413), RI (LAO00300), UCMR2 (CT00008), VT (VT11549)

101-000000311130

Premier
Laboratory, Inc

61 Louisa Viens Drive
Dayville, CT 06241
Fax: 860-774-2689
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Report No: E106J35
Client: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

CASE NARRATIVE / METHOD CONFORMANCE SUMMARY

Premier Laboratory, Inc received 17 samples from Fuss & O'Neill on 06/29/2011. The samples were analyzed for the following list of analyses:

Mercury by 7471 in SW
7471[7471]
Semivolatiles by 8270C for GW/SW
8270C[3500]
Trace Metals by 6010B
6010B[3000]
Volatiles by 8260B Methanol Preserved in SW
8260B[Methanol Preserved]
PCB's by 8082 in GW/SW
8082[3500]
TPH by 8100M (Itemized)
8100[8100]
Volatiles by 8260B (GA/GW-1/S-1)
8260B

Non-Conformances:

Work Order:

None

Sample:

None

Analysis:

Sample 10A, 841110628-10, Semivolatiles by SW-846 8270C: One internal standard was below quality control limits for the sample due to matrix interference.

Sample 10A, 841110628-10, Semivolatiles by SW-846 8270C: One surrogate spike was elevated outside quality control limits for the sample due to matrix interference.

Sample 7A, 841110628-07, Semivolatiles by SW-846 8270C: One internal standard was below quality control limits for the sample due to matrix interference.

Sample 8B, 841110628-08, Volatiles by 8260B (GA/GW-1/S-1): Two internal standard areas were below quality control limits for the sample due to matrix interference. The sample was re-analyzed and the internal standards were still below the limits.

Sample 8B, 841110628-08, Volatiles by 8260B (GA/GW-1/S-1): Two surrogate spikes were outside quality control limits for the sample, due to matrix interference. The sample was re-analyzed and the surrogates were still outside control limits.

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Date Received: 06/29/2011 16:10

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Parameter	Result	DL	Units	Completed	By	Dilution
(1) 841110628-01						
Date Collected: 06/28/2011 09:15	**Matrix: Solid**					
Trace Metals by 6010B						
Arsenic	8.2	0.26	mg/kg	07/06/2011 09:33	NJB	
Barium	21	0.52	mg/kg	07/06/2011 09:33	NJB	
Cadmium	0.51	0.10	mg/kg	07/06/2011 09:33	NJB	
Chromium	11	0.10	mg/kg	07/06/2011 09:33	NJB	
Lead	6.9	0.10	mg/kg	07/06/2011 09:33	NJB	
Selenium	ND	0.26	mg/kg	07/06/2011 09:33	NJB	
Silver	ND	0.10	mg/kg	07/06/2011 09:33	NJB	
Zinc	21	0.10	mg/kg	07/06/2011 09:33	NJB	
Vanadium	11	0.10	mg/kg	07/06/2011 09:33	NJB	
Thallium	ND	0.26	mg/kg	07/06/2011 09:33	NJB	
Nickel	12	0.10	mg/kg	07/06/2011 09:33	NJB	
Manganese	240	0.10	mg/kg	07/06/2011 09:33	NJB	
Copper	11	0.10	mg/kg	07/06/2011 09:33	NJB	
Beryllium	0.22	0.052	mg/kg	07/06/2011 09:33	NJB	
Antimony	ND	0.16	mg/kg	07/06/2011 09:33	NJB	
Mercury by SW-846 7471 in SW	ND	0.021	mg/kg	07/05/2011 12:35	KL	
(2) 841110628-02						
Date Collected: 06/28/2011 10:15	**Matrix: Solid**					
Trace Metals by 6010B						
Arsenic	9.1	0.27	mg/kg	07/06/2011 09:35	NJB	
Barium	19	0.54	mg/kg	07/06/2011 09:35	NJB	
Cadmium	0.61	0.11	mg/kg	07/06/2011 09:35	NJB	
Chromium	13	0.11	mg/kg	07/06/2011 09:35	NJB	
Lead	56	0.11	mg/kg	07/06/2011 09:35	NJB	
Selenium	ND	0.27	mg/kg	07/06/2011 09:35	NJB	
Silver	ND	0.11	mg/kg	07/06/2011 09:35	NJB	
Zinc	22	0.11	mg/kg	07/06/2011 09:35	NJB	
Vanadium	13	0.11	mg/kg	07/06/2011 09:35	NJB	
Thallium	ND	0.27	mg/kg	07/06/2011 09:35	NJB	
Nickel	13	0.11	mg/kg	07/06/2011 09:35	NJB	
Manganese	220	0.11	mg/kg	07/06/2011 09:35	NJB	
Copper	9.3	0.11	mg/kg	07/06/2011 09:35	NJB	
Beryllium	0.25	0.054	mg/kg	07/06/2011 09:35	NJB	
Antimony	ND	0.16	mg/kg	07/06/2011 09:35	NJB	
Mercury by SW-846 7471 in SW	ND	0.021	mg/kg	07/05/2011 12:35	KL	

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Date Received: 06/29/2011 16:10

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Parameter	Result	DL	Units	Completed	By	Dilution
(3) 841110628-03						
Date Collected: 06/28/2011 11:50	**Matrix: Solid**					
Trace Metals by 6010B						
Arsenic	5.6	0.26	mg/kg	07/06/2011	10:31	NJB
Barium	24	0.52	mg/kg	07/06/2011	10:31	NJB
Cadmium	0.51	0.10	mg/kg	07/06/2011	10:31	NJB
Chromium	9.4	0.10	mg/kg	07/06/2011	10:31	NJB
Lead	3.8	0.10	mg/kg	07/06/2011	10:31	NJB
Selenium	ND	0.26	mg/kg	07/06/2011	10:31	NJB
Silver	ND	0.10	mg/kg	07/06/2011	10:31	NJB
Zinc	18	0.10	mg/kg	07/06/2011	10:31	NJB
Vanadium	10	0.10	mg/kg	07/06/2011	10:31	NJB
Thallium	ND	0.26	mg/kg	07/06/2011	10:31	NJB
Nickel	9.4	0.10	mg/kg	07/06/2011	10:31	NJB
Manganese	180	0.10	mg/kg	07/06/2011	10:31	NJB
Copper	8.2	0.10	mg/kg	07/06/2011	10:31	NJB
Beryllium	0.24	0.052	mg/kg	07/06/2011	10:31	NJB
Antimony	ND	0.16	mg/kg	07/06/2011	10:31	NJB
Mercury by SW-846 7471 in SW	ND	0.021	mg/kg	07/05/2011	12:35	KL
(4) 841110628-04						
Date Collected: 06/28/2011 12:00	**Matrix: Solid**					
Trace Metals by 6010B						
Arsenic	7.0	0.26	mg/kg	07/06/2011	10:41	NJB
Barium	38	0.52	mg/kg	07/06/2011	10:41	NJB
Cadmium	0.52	0.10	mg/kg	07/06/2011	10:41	NJB
Chromium	14	0.10	mg/kg	07/06/2011	10:41	NJB
Lead	3.0	0.10	mg/kg	07/06/2011	10:41	NJB
Selenium	ND	0.26	mg/kg	07/06/2011	10:41	NJB
Silver	ND	0.10	mg/kg	07/06/2011	10:41	NJB
Zinc	22	0.10	mg/kg	07/06/2011	10:41	NJB
Vanadium	14	0.10	mg/kg	07/06/2011	10:41	NJB
Thallium	0.57	0.26	mg/kg	07/06/2011	10:41	NJB
Nickel	13	0.10	mg/kg	07/06/2011	10:41	NJB
Manganese	280	0.10	mg/kg	07/06/2011	10:41	NJB
Copper	11	0.10	mg/kg	07/06/2011	10:41	NJB
Beryllium	0.21	0.052	mg/kg	07/06/2011	10:41	NJB
Antimony	ND	0.15	mg/kg	07/06/2011	10:41	NJB
Mercury by SW-846 7471 in SW	ND	0.021	mg/kg	07/05/2011	12:35	KL

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Date Received: 06/29/2011 16:10

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Parameter	Result	DL	Units	Completed	By	Dilution
(5) 841110628-05						
Date Collected: 06/28/2011 12:20	**Matrix: Solid**					
Trace Metals by 6010B						
Arsenic	6.8	0.27	mg/kg	07/06/2011	10:43	NJB
Barium	21	0.53	mg/kg	07/06/2011	10:43	NJB
Cadmium	0.41	0.11	mg/kg	07/06/2011	10:43	NJB
Chromium	6.5	0.11	mg/kg	07/06/2011	10:43	NJB
Lead	4.7	0.11	mg/kg	07/06/2011	10:43	NJB
Selenium	ND	0.27	mg/kg	07/06/2011	10:43	NJB
Silver	ND	0.11	mg/kg	07/06/2011	10:43	NJB
Zinc	54	0.11	mg/kg	07/06/2011	10:43	NJB
Vanadium	8.7	0.11	mg/kg	07/06/2011	10:43	NJB
Thallium	ND	0.27	mg/kg	07/06/2011	10:43	NJB
Nickel	6.0	0.11	mg/kg	07/06/2011	10:43	NJB
Manganese	120	0.11	mg/kg	07/06/2011	10:43	NJB
Copper	7.6	0.11	mg/kg	07/06/2011	10:43	NJB
Beryllium	0.24	0.053	mg/kg	07/06/2011	10:43	NJB
Antimony	ND	0.16	mg/kg	07/06/2011	10:43	NJB
Mercury by SW-846 7471 in SW	0.023	0.021	mg/kg	07/05/2011	12:35	KL
(6) 841110628-06						
Date Collected: 06/28/2011 12:50	**Matrix: Solid**					
Trace Metals by 6010B						
Arsenic	2.4	0.26	mg/kg	07/06/2011	10:46	NJB
Barium	33	0.52	mg/kg	07/06/2011	10:46	NJB
Cadmium	0.32	0.10	mg/kg	07/06/2011	10:46	NJB
Chromium	5.7	0.10	mg/kg	07/06/2011	10:46	NJB
Lead	2.3	0.10	mg/kg	07/06/2011	10:46	NJB
Selenium	ND	0.26	mg/kg	07/06/2011	10:46	NJB
Silver	ND	0.10	mg/kg	07/06/2011	10:46	NJB
Zinc	16	0.10	mg/kg	07/06/2011	10:46	NJB
Vanadium	6.9	0.10	mg/kg	07/06/2011	10:46	NJB
Thallium	ND	0.26	mg/kg	07/06/2011	10:46	NJB
Nickel	5.3	0.10	mg/kg	07/06/2011	10:46	NJB
Manganese	190	0.10	mg/kg	07/06/2011	10:46	NJB
Copper	11	0.10	mg/kg	07/06/2011	10:46	NJB
Beryllium	0.20	0.052	mg/kg	07/06/2011	10:46	NJB
Antimony	ND	0.16	mg/kg	07/06/2011	10:46	NJB
Mercury by SW-846 7471 in SW	ND	0.021	mg/kg	07/05/2011	12:35	KL

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Date Received: 06/29/2011 16:10

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Parameter	Result	DL	Units	Completed	By	Dilution
(7) 841110628-07						
Date Collected: 06/28/2011 13:40	**Matrix: Solid**					
Trace Metals by 6010B						
Arsenic	3.1	0.28	mg/kg	07/06/2011 10:48	NJB	
Barium	24	0.55	mg/kg	07/06/2011 10:48	NJB	
Cadmium	0.39	0.11	mg/kg	07/06/2011 10:48	NJB	
Chromium	6.1	0.11	mg/kg	07/06/2011 10:48	NJB	
Lead	47	0.11	mg/kg	07/06/2011 10:48	NJB	
Selenium	ND	0.28	mg/kg	07/06/2011 10:48	NJB	
Silver	ND	0.11	mg/kg	07/06/2011 10:48	NJB	
Zinc	22	0.11	mg/kg	07/06/2011 10:48	NJB	
Vanadium	10	0.11	mg/kg	07/06/2011 10:48	NJB	
Thallium	ND	0.28	mg/kg	07/06/2011 10:48	NJB	
Nickel	4.3	0.11	mg/kg	07/06/2011 10:48	NJB	
Manganese	88	0.11	mg/kg	07/06/2011 10:48	NJB	
Copper	12	0.11	mg/kg	07/06/2011 10:48	NJB	
Beryllium	0.28	0.055	mg/kg	07/06/2011 10:48	NJB	
Antimony	ND	0.17	mg/kg	07/06/2011 10:48	NJB	
Mercury by SW-846 7471 in SW	0.044	0.022	mg/kg	07/05/2011 12:35	KL	
(8) 841110628-08						
Date Collected: 06/28/2011 13:50	**Matrix: Solid**					
Trace Metals by 6010B						
Arsenic	5.2	0.26	mg/kg	07/06/2011 10:50	NJB	
Barium	12	0.52	mg/kg	07/06/2011 10:50	NJB	
Cadmium	0.37	0.10	mg/kg	07/06/2011 10:50	NJB	
Chromium	6.7	0.10	mg/kg	07/06/2011 10:50	NJB	
Lead	2.3	0.10	mg/kg	07/06/2011 10:50	NJB	
Selenium	ND	0.26	mg/kg	07/06/2011 10:50	NJB	
Silver	ND	0.10	mg/kg	07/06/2011 10:50	NJB	
Zinc	15	0.10	mg/kg	07/06/2011 10:50	NJB	
Vanadium	6.7	0.10	mg/kg	07/06/2011 10:50	NJB	
Thallium	ND	0.26	mg/kg	07/06/2011 10:50	NJB	
Nickel	7.8	0.10	mg/kg	07/06/2011 10:50	NJB	
Manganese	190	0.10	mg/kg	07/06/2011 10:50	NJB	
Copper	6.0	0.10	mg/kg	07/06/2011 10:50	NJB	
Beryllium	0.19	0.052	mg/kg	07/06/2011 10:50	NJB	
Antimony	ND	0.16	mg/kg	07/06/2011 10:50	NJB	
Mercury by SW-846 7471 in SW	ND	0.021	mg/kg	07/05/2011 12:35	KL	

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Date Received: 06/29/2011 16:10

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Parameter	Result	DL	Units	Completed	By	Dilution
(9) 841110628-09						
Date Collected: 06/28/2011 14:20 **Matrix: Solid**						
Trace Metals by 6010B						
Arsenic	8.9	0.27	mg/kg	07/06/2011 11:00	NJB	
Barium	29	0.53	mg/kg	07/06/2011 11:00	NJB	
Cadmium	0.64	0.11	mg/kg	07/06/2011 11:00	NJB	
Chromium	12	0.11	mg/kg	07/06/2011 11:00	NJB	
Lead	8.8	0.11	mg/kg	07/06/2011 11:00	NJB	
Selenium	ND	0.27	mg/kg	07/06/2011 11:00	NJB	
Silver	ND	0.11	mg/kg	07/06/2011 11:00	NJB	
Zinc	20	0.11	mg/kg	07/06/2011 11:00	NJB	
Vanadium	13	0.11	mg/kg	07/06/2011 11:00	NJB	
Thallium	ND	0.27	mg/kg	07/06/2011 11:00	NJB	
Nickel	11	0.11	mg/kg	07/06/2011 11:00	NJB	
Manganese	200	0.11	mg/kg	07/06/2011 11:00	NJB	
Copper	9.5	0.11	mg/kg	07/06/2011 11:00	NJB	
Beryllium	0.28	0.053	mg/kg	07/06/2011 11:00	NJB	
Antimony	ND	0.16	mg/kg	07/06/2011 11:00	NJB	
Mercury by SW-846 7471 in SW	ND	0.021	mg/kg	07/05/2011 12:35	KL	
(10) 841110628-10						
Date Collected: 06/28/2011 14:30 **Matrix: Solid**						
Trace Metals by 6010B						
Arsenic	9.2	0.27	mg/kg	07/06/2011 11:03	NJB	
Barium	23	0.54	mg/kg	07/06/2011 11:03	NJB	
Cadmium	0.68	0.11	mg/kg	07/06/2011 11:03	NJB	
Chromium	15	0.11	mg/kg	07/06/2011 11:03	NJB	
Lead	6.8	0.11	mg/kg	07/06/2011 11:03	NJB	
Selenium	ND	0.27	mg/kg	07/06/2011 11:03	NJB	
Silver	ND	0.11	mg/kg	07/06/2011 11:03	NJB	
Zinc	23	0.11	mg/kg	07/06/2011 11:03	NJB	
Vanadium	14	0.11	mg/kg	07/06/2011 11:03	NJB	
Thallium	ND	0.27	mg/kg	07/06/2011 11:03	NJB	
Nickel	15	0.11	mg/kg	07/06/2011 11:03	NJB	
Manganese	290	0.11	mg/kg	07/06/2011 11:03	NJB	
Copper	11	0.11	mg/kg	07/06/2011 11:03	NJB	
Beryllium	0.25	0.054	mg/kg	07/06/2011 11:03	NJB	
Antimony	ND	0.16	mg/kg	07/06/2011 11:03	NJB	
Mercury by SW-846 7471 in SW	ND	0.022	mg/kg	07/05/2011 12:35	KL	

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Date Received: 06/29/2011 16:10

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Parameter	Result	DL	Units	Completed	By	Dilution
(11) 841110628-11						
Date Collected: 06/28/2011 14:50	**Matrix: Solid**					
Trace Metals by 6010B						
Arsenic	12	0.26	mg/kg	07/06/2011 11:05	NJB	
Barium	22	0.52	mg/kg	07/06/2011 11:05	NJB	
Cadmium	0.68	0.10	mg/kg	07/06/2011 11:05	NJB	
Chromium	13	0.10	mg/kg	07/06/2011 11:05	NJB	
Lead	7.4	0.10	mg/kg	07/06/2011 11:05	NJB	
Selenium	ND	0.26	mg/kg	07/06/2011 11:05	NJB	
Silver	ND	0.10	mg/kg	07/06/2011 11:05	NJB	
Zinc	28	0.10	mg/kg	07/06/2011 11:05	NJB	
Vanadium	12	0.10	mg/kg	07/06/2011 11:05	NJB	
Thallium	ND	0.26	mg/kg	07/06/2011 11:05	NJB	
Nickel	14	0.10	mg/kg	07/06/2011 11:05	NJB	
Manganese	270	0.10	mg/kg	07/06/2011 11:05	NJB	
Copper	11	0.10	mg/kg	07/06/2011 11:05	NJB	
Beryllium	0.23	0.052	mg/kg	07/06/2011 11:05	NJB	
Antimony	ND	0.16	mg/kg	07/06/2011 11:53	NJB	
Mercury by SW-846 7471 in SW	ND	0.021	mg/kg	07/05/2011 12:35	KL	
(12) 841110628-12						
Date Collected: 06/28/2011 15:00	**Matrix: Solid**					
Trace Metals by 6010B						
Arsenic	9.1	0.26	mg/kg	07/06/2011 11:08	NJB	
Barium	22	0.52	mg/kg	07/06/2011 11:08	NJB	
Cadmium	0.57	0.10	mg/kg	07/06/2011 11:08	NJB	
Chromium	11	0.10	mg/kg	07/06/2011 11:08	NJB	
Lead	6.7	0.10	mg/kg	07/06/2011 11:08	NJB	
Selenium	ND	0.26	mg/kg	07/06/2011 11:08	NJB	
Silver	ND	0.10	mg/kg	07/06/2011 11:08	NJB	
Zinc	25	0.10	mg/kg	07/06/2011 11:08	NJB	
Vanadium	10	0.10	mg/kg	07/06/2011 11:08	NJB	
Thallium	ND	0.26	mg/kg	07/06/2011 11:08	NJB	
Nickel	12	0.10	mg/kg	07/06/2011 11:08	NJB	
Manganese	220	0.10	mg/kg	07/06/2011 11:08	NJB	
Copper	11	0.10	mg/kg	07/06/2011 11:08	NJB	
Beryllium	0.24	0.052	mg/kg	07/06/2011 11:08	NJB	
Antimony	ND	0.16	mg/kg	07/06/2011 11:08	NJB	
Mercury by SW-846 7471 in SW	ND	0.021	mg/kg	07/05/2011 12:35	KL	

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Date Received: 06/29/2011 16:10

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Parameter	Result	DL	Units	Completed	By	Dilution
(13) 841110628-13						
Date Collected: 06/28/2011 15:05	**Matrix: Solid**					
Trace Metals by 6010B						
Arsenic	8.6	0.26	mg/kg	07/06/2011	11:10	NJB
Barium	16	0.52	mg/kg	07/06/2011	11:10	NJB
Cadmium	0.37	0.10	mg/kg	07/06/2011	11:10	NJB
Chromium	6.1	0.10	mg/kg	07/06/2011	11:10	NJB
Lead	4.1	0.10	mg/kg	07/06/2011	11:10	NJB
Selenium	ND	0.26	mg/kg	07/06/2011	11:10	NJB
Silver	ND	0.10	mg/kg	07/06/2011	11:10	NJB
Zinc	16	0.10	mg/kg	07/06/2011	11:10	NJB
Vanadium	6.9	0.10	mg/kg	07/06/2011	11:10	NJB
Thallium	ND	0.26	mg/kg	07/06/2011	11:10	NJB
Nickel	8.0	0.10	mg/kg	07/06/2011	11:10	NJB
Manganese	220	0.10	mg/kg	07/06/2011	11:10	NJB
Copper	5.5	0.10	mg/kg	07/06/2011	11:10	NJB
Beryllium	0.18	0.052	mg/kg	07/06/2011	11:10	NJB
Antimony	ND	0.16	mg/kg	07/06/2011	11:10	NJB
Mercury by SW-846 7471 in SW	ND	0.021	mg/kg	07/05/2011	12:35	KL
(14) 841110628-14						
Date Collected: 06/28/2011 15:20	**Matrix: Solid**					
Trace Metals by 6010B						
Arsenic	3.8	0.27	mg/kg	07/06/2011	11:12	NJB
Barium	28	0.53	mg/kg	07/06/2011	11:12	NJB
Cadmium	0.34	0.11	mg/kg	07/06/2011	11:12	NJB
Chromium	4.1	0.11	mg/kg	07/06/2011	11:12	NJB
Lead	14	0.11	mg/kg	07/06/2011	11:12	NJB
Selenium	ND	0.27	mg/kg	07/06/2011	11:12	NJB
Silver	ND	0.11	mg/kg	07/06/2011	11:12	NJB
Zinc	19	0.11	mg/kg	07/06/2011	11:12	NJB
Vanadium	7.4	0.11	mg/kg	07/06/2011	11:12	NJB
Thallium	ND	0.27	mg/kg	07/06/2011	11:12	NJB
Nickel	3.0	0.11	mg/kg	07/06/2011	11:12	NJB
Manganese	99	0.11	mg/kg	07/06/2011	11:12	NJB
Copper	6.6	0.11	mg/kg	07/06/2011	11:12	NJB
Beryllium	0.21	0.053	mg/kg	07/06/2011	11:12	NJB
Antimony	ND	0.16	mg/kg	07/06/2011	11:12	NJB
Mercury by SW-846 7471 in SW	ND	0.021	mg/kg	07/05/2011	12:35	KL

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Date Received: 06/29/2011 16:10

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Parameter	Result	DL	Units	Completed	By	Dilution
(15) 841110628-15						
Date Collected: 06/28/2011 15:30	**Matrix: Solid**					
Trace Metals by 6010B						
Arsenic	5.7	0.26	mg/kg	07/06/2011 11:15	NJB	
Barium	24	0.53	mg/kg	07/06/2011 11:15	NJB	
Cadmium	0.45	0.10	mg/kg	07/06/2011 11:15	NJB	
Chromium	6.8	0.10	mg/kg	07/06/2011 11:15	NJB	
Lead	2.9	0.10	mg/kg	07/06/2011 11:15	NJB	
Selenium	ND	0.26	mg/kg	07/06/2011 11:15	NJB	
Silver	ND	0.10	mg/kg	07/06/2011 11:15	NJB	
Zinc	20	0.10	mg/kg	07/06/2011 11:15	NJB	
Vanadium	11	0.10	mg/kg	07/06/2011 11:15	NJB	
Thallium	ND	0.26	mg/kg	07/06/2011 11:15	NJB	
Nickel	8.5	0.10	mg/kg	07/06/2011 11:15	NJB	
Manganese	160	0.10	mg/kg	07/06/2011 11:15	NJB	
Copper	24	0.10	mg/kg	07/06/2011 11:15	NJB	
Beryllium	0.25	0.053	mg/kg	07/06/2011 11:15	NJB	
Antimony	ND	0.16	mg/kg	07/06/2011 11:15	NJB	
Mercury by SW-846 7471 in SW	ND	0.021	mg/kg	07/05/2011 12:35	KL	

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 1
Sample Description: 841110628-01

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 09:15
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 21:04 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 4.3
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32799.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
103-33-3	Azobenzene	ND	170	ug/kg
83-32-9	Acenaphthene	ND	170	ug/kg
208-96-8	Acenaphthylene	ND	170	ug/kg
62-53-3	Aniline	ND	350	ug/kg
120-12-7	Anthracene	ND	170	ug/kg
92-52-4	Biphenyl	ND	170	ug/kg
56-55-3	Benzo[a]anthracene	ND	170	ug/kg
50-32-8	Benzo[a]pyrene	ND	170	ug/kg
205-99-2	Benzo[b]fluoranthene	ND	170	ug/kg
191-24-2	Benzo[g,h,i]perylene	ND	170	ug/kg
207-08-9	Benzo[k]fluoranthene	ND	170	ug/kg
65-85-0	Benzoic acid	ND	870	ug/kg
100-51-6	Benzyl alcohol	ND	350	ug/kg
85-68-7	Benzyl butyl phthalate	ND	170	ug/kg
111-91-1	Bis(2-chloroethoxy)methane	ND	170	ug/kg
111-44-4	Bis(2-chloroethyl)ether	ND	170	ug/kg
108-60-1	Bis(2-chloroisopropyl)ether	ND	350	ug/kg
117-81-7	Bis(2-ethylhexyl)phthalate	ND	170	ug/kg
101-55-3	4-Bromophenyl phenyl ether	ND	170	ug/kg
59-50-7	4-Chloro-3-methylphenol	ND	170	ug/kg
106-47-8	4-Chloroaniline	ND	350	ug/kg
91-58-7	2-Chloronaphthalene	ND	170	ug/kg
95-57-8	2-Chlorophenol	ND	170	ug/kg
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	ug/kg
218-01-9	Chrysene	ND	170	ug/kg
53-70-3	Dibenz[a,h]anthracene	ND	170	ug/kg
84-74-2	Di-n-butyl phthalate	ND	170	ug/kg
117-84-0	Di-n-octyl phthalate	ND	170	ug/kg
132-64-9	Dibenzofuran	ND	350	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	170	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	170	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	170	ug/kg
91-94-1	3,3-Dichlorobenzidine	ND	170	ug/kg
120-83-2	2,4-Dichlorophenol	ND	170	ug/kg
84-66-2	Diethyl phthalate	ND	170	ug/kg
131-11-3	Dimethyl phthalate	ND	170	ug/kg
105-67-9	2,4-Dimethylphenol	ND	170	ug/kg
51-28-5	2,4-Dinitrophenol	ND	170	ug/kg
121-14-2	2,4-Dinitrotoluene	ND	170	ug/kg
606-20-2	2,6-Dinitrotoluene	ND	170	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 1
Sample Description: 841110628-01

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 09:15
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 21:04 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 4.3
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32799.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
206-44-0	Fluoranthene	ND	170	ug/kg
86-73-7	Fluorene	ND	170	ug/kg
118-74-1	Hexachlorobenzene	ND	170	ug/kg
87-68-3	Hexachlorobutadiene	ND	170	ug/kg
77-47-4	Hexachlorocyclopentadiene	ND	170	ug/kg
67-72-1	Hexachloroethane	ND	170	ug/kg
193-39-5	Indeno[1,2,3-cd]pyrene	ND	170	ug/kg
78-59-1	Isophorone	ND	170	ug/kg
534-52-1	2-Methyl-4,6-dinitrophenol	ND	170	ug/kg
91-57-6	2-Methylnaphthalene	ND	170	ug/kg
95-48-7	2-Methylphenol	ND	170	ug/kg
108-39-4	3- & 4-Methylphenols	ND	350	ug/kg
91-20-3	Naphthalene	ND	170	ug/kg
88-74-4	2-Nitroaniline	ND	350	ug/kg
99-09-2	3-Nitroaniline	ND	350	ug/kg
100-01-6	4-Nitroaniline	ND	350	ug/kg
98-95-3	Nitrobenzene	ND	170	ug/kg
88-75-5	2-Nitrophenol	ND	170	ug/kg
100-02-1	4-Nitrophenol	ND	170	ug/kg
621-64-7	N-Nitrosodi-n-propylamine	ND	170	ug/kg
62-75-9	N-Nitrosodimethylamine	ND	170	ug/kg
86-30-6	N-Nitrosodiphenylamine	ND	170	ug/kg
87-86-5	Pentachlorophenol	ND	170	ug/kg
85-01-8	Phenanthrene	ND	170	ug/kg
108-95-2	Phenol	ND	170	ug/kg
129-00-0	Pyrene	ND	170	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	170	ug/kg
95-95-4	2,4,5-Trichlorophenol	ND	170	ug/kg
88-06-2	2,4,6-Trichlorophenol	ND	170	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
2,4,6-Tribromophenol	96%	18%-118%
2-Fluorobiphenyl	61%	24%-101%
2-Fluorophenol	61%	10%-94%
4-Terphenyl-d14	96%	20%-133%
Nitrobenzene-d5	61%	16%-98%
Phenol-d6	64%	15%-102%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 1
Sample Description: 841110628-01

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 09:15
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 12:00 By: AJM
Date Analyzed: 07/06/2011 18:59 By: MRB
Preparation Method: 8100
Analytical Method: 8100

Matrix: Solid
Percent Moisture: 4.3
Sample Weight/Volume: 10.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: 6070619.D
QC Batch#: 86212

CAS No.	Parameter	Result	DL	Units
	C6-C12 Light Petroleum Distillate	ND	21	mg/kg
	C10-C28 Medium Petroleum Distillate	ND	21	mg/kg
	C16-C36 Heavy Petroleum Distillate	ND	21	mg/kg
	Total PHC	ND	21	mg/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 1
Sample Description: 841110628-01

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 09:15
Date Received: 06/29/2011 16:10
Date Extracted: 06/30/2011 09:00 By: DPR
Date Analyzed: 07/05/2011 12:59 By: MRB
Preparation Method: 3500
Analytical Method: 8082

Matrix: Solid
Percent Moisture: 4.3
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 8070505.D
QC Batch#: 86192

CAS No.	Parameter	Result	DL	Units
12674-11-2	Aroclor 1016	ND	14	ug/kg
11104-28-2	Aroclor 1221	ND	14	ug/kg
11141-16-5	Aroclor 1232	ND	14	ug/kg
53469-21-9	Aroclor 1242	ND	14	ug/kg
12672-29-6	Aroclor 1248	ND	14	ug/kg
11097-69-1	Aroclor 1254	ND	14	ug/kg
11096-82-5	Aroclor 1260	ND	14	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	79%	10%-103%
Decachlorobiphenyl	86%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 1
Sample Description: 841110628-01

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 09:15
Date Received: 06/29/2011 16:10
Date Analyzed: 06/30/2011 11:46 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 4.3
Dilution Factor: 1
Lab Data File: J45998.D
QC Batch#: 86074

CAS No.	Parameter	Result	DL	Units
67-64-1	Acetone	ND	10	ug/kg
107-13-1	Acrylonitrile	ND	5.2	ug/kg
71-43-2	Benzene	ND	5.2	ug/kg
108-86-1	Bromobenzene	ND	5.2	ug/kg
74-97-5	Bromochloromethane	ND	5.2	ug/kg
75-27-4	Bromodichloromethane	ND	5.2	ug/kg
75-25-2	Bromoform	ND	5.2	ug/kg
74-83-9	Bromomethane	ND	5.2	ug/kg
78-93-3	2-Butanone (MEK)	ND	10	ug/kg
104-51-8	n-Butylbenzene	ND	5.2	ug/kg
135-98-8	sec-Butylbenzene	ND	5.2	ug/kg
98-06-6	tert-Butylbenzene	ND	5.2	ug/kg
75-15-0	Carbon disulfide	ND	5.2	ug/kg
56-23-5	Carbon tetrachloride	ND	5.2	ug/kg
108-90-7	Chlorobenzene	ND	5.2	ug/kg
75-00-3	Chloroethane	ND	5.2	ug/kg
67-66-3	Chloroform	ND	5.2	ug/kg
74-87-3	Chloromethane	ND	5.2	ug/kg
95-49-8	2-Chlorotoluene	ND	5.2	ug/kg
106-43-4	4-Chlorotoluene	ND	5.2	ug/kg
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	5.2	ug/kg
124-48-1	Dibromochloromethane	ND	5.2	ug/kg
106-93-4	1,2-Dibromoethane (EDB)	ND	5.2	ug/kg
74-95-3	Dibromomethane	ND	5.2	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	5.2	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	5.2	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	5.2	ug/kg
75-71-8	Dichlorodifluoromethane	ND	5.2	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.2	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.2	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.2	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.2	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.2	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.2	ug/kg
142-28-9	1,3-Dichloropropane	ND	5.2	ug/kg
594-20-7	2,2-Dichloropropane	ND	5.2	ug/kg
563-58-6	1,1-Dichloropropene	ND	5.2	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	ug/kg
60-29-7	Diethyl ether	ND	5.2	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 1
Sample Description: 841110628-01

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 09:15
Date Received: 06/29/2011 16:10
Date Analyzed: 06/30/2011 11:46 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 4.3
Dilution Factor: 1
Lab Data File: J45998.D
QC Batch#: 86074

CAS No.	Parameter	Result	DL	Units
123-91-1	1,4-Dioxane	ND	21	ug/kg
100-41-4	Ethylbenzene	ND	5.2	ug/kg
87-68-3	Hexachlorobutadiene	ND	5.2	ug/kg
591-78-6	2-Hexanone	ND	10	ug/kg
98-82-8	Isopropylbenzene	ND	5.2	ug/kg
99-87-6	4-Isopropyltoluene	ND	5.2	ug/kg
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	5.2	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	ug/kg
75-09-2	Methylene chloride	ND	5.2	ug/kg
91-20-3	Naphthalene	ND	5.2	ug/kg
103-65-1	n-Propylbenzene	ND	5.2	ug/kg
100-42-5	Styrene	ND	5.2	ug/kg
109-99-9	Tetrahydrofuran	ND	5.2	ug/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.2	ug/kg
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.2	ug/kg
96-18-4	1,2,3-Trichloropropane	ND	5.2	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.2	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg
127-18-4	Tetrachloroethene (PCE)	ND	5.2	ug/kg
108-88-3	Toluene	ND	5.2	ug/kg
87-61-6	1,2,3-Trichlorobenzene	ND	5.2	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.2	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.2	ug/kg
79-01-6	Trichloroethene (TCE)	ND	5.2	ug/kg
75-69-4	Trichlorofluoromethane	ND	5.2	ug/kg
95-63-6	1,2,4-Trimethylbenzene	ND	5.2	ug/kg
108-67-8	1,3,5-Trimethylbenzene	ND	5.2	ug/kg
75-01-4	Vinyl chloride	ND	5.2	ug/kg
95-47-6	o-Xylene	ND	5.2	ug/kg
108-38-3	m,p-Xylenes	ND	10	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
1,2-Dichloroethane-d4	104%	82%-120%
Bromofluorobenzene	98%	70%-122%
Toluene-d8	98%	77%-126%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 2
Sample Description: 841110628-02

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 10:15
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 19:38 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 6.8
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32796.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
103-33-3	Azobenzene	ND	180	ug/kg
83-32-9	Acenaphthene	ND	180	ug/kg
208-96-8	Acenaphthylene	ND	180	ug/kg
62-53-3	Aniline	ND	360	ug/kg
120-12-7	Anthracene	ND	180	ug/kg
92-52-4	Biphenyl	ND	180	ug/kg
56-55-3	Benzo[a]anthracene	ND	180	ug/kg
50-32-8	Benzo[a]pyrene	ND	180	ug/kg
205-99-2	Benzo[b]fluoranthene	ND	180	ug/kg
191-24-2	Benzo[g,h,i]perylene	ND	180	ug/kg
207-08-9	Benzo[k]fluoranthene	ND	180	ug/kg
65-85-0	Benzoic acid	ND	890	ug/kg
100-51-6	Benzyl alcohol	ND	360	ug/kg
85-68-7	Benzyl butyl phthalate	ND	180	ug/kg
111-91-1	Bis(2-chloroethoxy)methane	ND	180	ug/kg
111-44-4	Bis(2-chloroethyl)ether	ND	180	ug/kg
108-60-1	Bis(2-chloroisopropyl)ether	ND	360	ug/kg
117-81-7	Bis(2-ethylhexyl)phthalate	ND	180	ug/kg
101-55-3	4-Bromophenyl phenyl ether	ND	180	ug/kg
59-50-7	4-Chloro-3-methylphenol	ND	180	ug/kg
106-47-8	4-Chloroaniline	ND	360	ug/kg
91-58-7	2-Chloronaphthalene	ND	180	ug/kg
95-57-8	2-Chlorophenol	ND	180	ug/kg
7005-72-3	4-Chlorophenyl phenyl ether	ND	180	ug/kg
218-01-9	Chrysene	ND	180	ug/kg
53-70-3	Dibenz[a,h]anthracene	ND	180	ug/kg
84-74-2	Di-n-butyl phthalate	ND	180	ug/kg
117-84-0	Di-n-octyl phthalate	ND	180	ug/kg
132-64-9	Dibenzofuran	ND	360	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	180	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	180	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	180	ug/kg
91-94-1	3,3-Dichlorobenzidine	ND	180	ug/kg
120-83-2	2,4-Dichlorophenol	ND	180	ug/kg
84-66-2	Diethyl phthalate	ND	180	ug/kg
131-11-3	Dimethyl phthalate	ND	180	ug/kg
105-67-9	2,4-Dimethylphenol	ND	180	ug/kg
51-28-5	2,4-Dinitrophenol	ND	180	ug/kg
121-14-2	2,4-Dinitrotoluene	ND	180	ug/kg
606-20-2	2,6-Dinitrotoluene	ND	180	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 2
Sample Description: 841110628-02

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 10:15
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 19:38 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 6.8
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32796.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
206-44-0	Fluoranthene	ND	180	ug/kg
86-73-7	Fluorene	ND	180	ug/kg
118-74-1	Hexachlorobenzene	ND	180	ug/kg
87-68-3	Hexachlorobutadiene	ND	180	ug/kg
77-47-4	Hexachlorocyclopentadiene	ND	180	ug/kg
67-72-1	Hexachloroethane	ND	180	ug/kg
193-39-5	Indeno[1,2,3-cd]pyrene	ND	180	ug/kg
78-59-1	Isophorone	ND	180	ug/kg
534-52-1	2-Methyl-4,6-dinitrophenol	ND	180	ug/kg
91-57-6	2-Methylnaphthalene	ND	180	ug/kg
95-48-7	2-Methylphenol	ND	180	ug/kg
108-39-4	3- & 4-Methylphenols	ND	360	ug/kg
91-20-3	Naphthalene	ND	180	ug/kg
88-74-4	2-Nitroaniline	ND	360	ug/kg
99-09-2	3-Nitroaniline	ND	360	ug/kg
100-01-6	4-Nitroaniline	ND	360	ug/kg
98-95-3	Nitrobenzene	ND	180	ug/kg
88-75-5	2-Nitrophenol	ND	180	ug/kg
100-02-1	4-Nitrophenol	ND	180	ug/kg
621-64-7	N-Nitrosodi-n-propylamine	ND	180	ug/kg
62-75-9	N-Nitrosodimethylamine	ND	180	ug/kg
86-30-6	N-Nitrosodiphenylamine	ND	180	ug/kg
87-86-5	Pentachlorophenol	ND	180	ug/kg
85-01-8	Phenanthrene	ND	180	ug/kg
108-95-2	Phenol	ND	180	ug/kg
129-00-0	Pyrene	ND	180	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	180	ug/kg
95-95-4	2,4,5-Trichlorophenol	ND	180	ug/kg
88-06-2	2,4,6-Trichlorophenol	ND	180	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
2,4,6-Tribromophenol	74%	18%-118%
2-Fluorobiphenyl	45%	24%-101%
2-Fluorophenol	38%	10%-94%
4-Terphenyl-d14	92%	20%-133%
Nitrobenzene-d5	42%	16%-98%
Phenol-d6	43%	15%-102%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 2
Sample Description: 841110628-02

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 10:15
Date Received: 06/29/2011 16:10
Date Extracted: 07/05/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 03:19 By: MRB
Preparation Method: 8100
Analytical Method: 8100

Matrix: Solid
Percent Moisture: 6.8
Sample Weight/Volume: 10.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: 6070634.D
QC Batch#: 86265

CAS No.	Parameter	Result	DL	Units
	C6-C12 Light Petroleum Distillate	ND	21	mg/kg
	C10-C28 Medium Petroleum Distillate	ND	21	mg/kg
	C16-C36 Heavy Petroleum Distillate	ND	21	mg/kg
	Total PHC	ND	21	mg/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 2
Sample Description: 841110628-02

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 10:15
Date Received: 06/29/2011 16:10
Date Extracted: 06/30/2011 09:00 By: DPR
Date Analyzed: 07/06/2011 09:03 By: MRB
Preparation Method: 3500
Analytical Method: 8082

Matrix: Solid
Percent Moisture: 6.8
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 8070603.D
QC Batch#: 86192

CAS No.	Parameter	Result	DL	Units
12674-11-2	Aroclor 1016	ND	14	ug/kg
11104-28-2	Aroclor 1221	ND	14	ug/kg
11141-16-5	Aroclor 1232	ND	14	ug/kg
53469-21-9	Aroclor 1242	ND	14	ug/kg
12672-29-6	Aroclor 1248	ND	14	ug/kg
11097-69-1	Aroclor 1254	ND	14	ug/kg
11096-82-5	Aroclor 1260	ND	14	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	66%	10%-103%
Decachlorobiphenyl	68%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 2
Sample Description: 841110628-02

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 10:15
Date Received: 06/29/2011 16:10
Date Analyzed: 06/30/2011 12:13 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 6.8
Dilution Factor: 1
Lab Data File: J45999.D
QC Batch#: 86074

CAS No.	Parameter	Result	DL	Units
67-64-1	Acetone	ND	12	ug/kg
107-13-1	Acrylonitrile	ND	5.9	ug/kg
71-43-2	Benzene	ND	5.9	ug/kg
108-86-1	Bromobenzene	ND	5.9	ug/kg
74-97-5	Bromochloromethane	ND	5.9	ug/kg
75-27-4	Bromodichloromethane	ND	5.9	ug/kg
75-25-2	Bromoform	ND	5.9	ug/kg
74-83-9	Bromomethane	ND	5.9	ug/kg
78-93-3	2-Butanone (MEK)	ND	12	ug/kg
104-51-8	n-Butylbenzene	ND	5.9	ug/kg
135-98-8	sec-Butylbenzene	ND	5.9	ug/kg
98-06-6	tert-Butylbenzene	ND	5.9	ug/kg
75-15-0	Carbon disulfide	ND	5.9	ug/kg
56-23-5	Carbon tetrachloride	ND	5.9	ug/kg
108-90-7	Chlorobenzene	ND	5.9	ug/kg
75-00-3	Chloroethane	ND	5.9	ug/kg
67-66-3	Chloroform	ND	5.9	ug/kg
74-87-3	Chloromethane	ND	5.9	ug/kg
95-49-8	2-Chlorotoluene	ND	5.9	ug/kg
106-43-4	4-Chlorotoluene	ND	5.9	ug/kg
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	5.9	ug/kg
124-48-1	Dibromochloromethane	ND	5.9	ug/kg
106-93-4	1,2-Dibromoethane (EDB)	ND	5.9	ug/kg
74-95-3	Dibromomethane	ND	5.9	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	5.9	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	5.9	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	5.9	ug/kg
75-71-8	Dichlorodifluoromethane	ND	5.9	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.9	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.9	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.9	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.9	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.9	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.9	ug/kg
142-28-9	1,3-Dichloropropane	ND	5.9	ug/kg
594-20-7	2,2-Dichloropropane	ND	5.9	ug/kg
563-58-6	1,1-Dichloropropene	ND	5.9	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.9	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.9	ug/kg
60-29-7	Diethyl ether	ND	5.9	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 2
Sample Description: 841110628-02

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 10:15
Date Received: 06/29/2011 16:10
Date Analyzed: 06/30/2011 12:13 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 6.8
Dilution Factor: 1
Lab Data File: J45999.D
QC Batch#: 86074

CAS No.	Parameter	Result	DL	Units
123-91-1	1,4-Dioxane	ND	24	ug/kg
100-41-4	Ethylbenzene	ND	5.9	ug/kg
87-68-3	Hexachlorobutadiene	ND	5.9	ug/kg
591-78-6	2-Hexanone	ND	12	ug/kg
98-82-8	Isopropylbenzene	ND	5.9	ug/kg
99-87-6	4-Isopropyltoluene	ND	5.9	ug/kg
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	5.9	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	12	ug/kg
75-09-2	Methylene chloride	ND	5.9	ug/kg
91-20-3	Naphthalene	ND	5.9	ug/kg
103-65-1	n-Propylbenzene	ND	5.9	ug/kg
100-42-5	Styrene	ND	5.9	ug/kg
109-99-9	Tetrahydrofuran	ND	5.9	ug/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.9	ug/kg
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.9	ug/kg
96-18-4	1,2,3-Trichloropropane	ND	5.9	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.9	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg
127-18-4	Tetrachloroethene (PCE)	ND	5.9	ug/kg
108-88-3	Toluene	ND	5.9	ug/kg
87-61-6	1,2,3-Trichlorobenzene	ND	5.9	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.9	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.9	ug/kg
79-01-6	Trichloroethene (TCE)	ND	5.9	ug/kg
75-69-4	Trichlorofluoromethane	ND	5.9	ug/kg
95-63-6	1,2,4-Trimethylbenzene	ND	5.9	ug/kg
108-67-8	1,3,5-Trimethylbenzene	ND	5.9	ug/kg
75-01-4	Vinyl chloride	ND	5.9	ug/kg
95-47-6	o-Xylene	ND	5.9	ug/kg
108-38-3	m,p-Xylenes	ND	12	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
1,2-Dichloroethane-d4	107%	82%-120%
Bromofluorobenzene	99%	70%-122%
Toluene-d8	101%	77%-126%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 3
Sample Description: 841110628-03

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 11:50
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 21:33 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 4.5
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32800.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
103-33-3	Azobenzene	ND	170	ug/kg
83-32-9	Acenaphthene	ND	170	ug/kg
208-96-8	Acenaphthylene	ND	170	ug/kg
62-53-3	Aniline	ND	350	ug/kg
120-12-7	Anthracene	ND	170	ug/kg
92-52-4	Biphenyl	ND	170	ug/kg
56-55-3	Benzo[a]anthracene	320	170	ug/kg
50-32-8	Benzo[a]pyrene	280	170	ug/kg
205-99-2	Benzo[b]fluoranthene	330	170	ug/kg
191-24-2	Benzo[g,h,i]perylene	ND	170	ug/kg
207-08-9	Benzo[k]fluoranthene	ND	170	ug/kg
65-85-0	Benzoic acid	ND	870	ug/kg
100-51-6	Benzyl alcohol	ND	350	ug/kg
85-68-7	Benzyl butyl phthalate	ND	170	ug/kg
111-91-1	Bis(2-chloroethoxy)methane	ND	170	ug/kg
111-44-4	Bis(2-chloroethyl)ether	ND	170	ug/kg
108-60-1	Bis(2-chloroisopropyl)ether	ND	350	ug/kg
117-81-7	Bis(2-ethylhexyl)phthalate	ND	170	ug/kg
101-55-3	4-Bromophenyl phenyl ether	ND	170	ug/kg
59-50-7	4-Chloro-3-methylphenol	ND	170	ug/kg
106-47-8	4-Chloroaniline	ND	350	ug/kg
91-58-7	2-Chloronaphthalene	ND	170	ug/kg
95-57-8	2-Chlorophenol	ND	170	ug/kg
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	ug/kg
218-01-9	Chrysene	340	170	ug/kg
53-70-3	Dibenz[a,h]anthracene	ND	170	ug/kg
84-74-2	Di-n-butyl phthalate	ND	170	ug/kg
117-84-0	Di-n-octyl phthalate	ND	170	ug/kg
132-64-9	Dibenzofuran	ND	350	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	170	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	170	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	170	ug/kg
91-94-1	3,3-Dichlorobenzidine	ND	170	ug/kg
120-83-2	2,4-Dichlorophenol	ND	170	ug/kg
84-66-2	Diethyl phthalate	ND	170	ug/kg
131-11-3	Dimethyl phthalate	ND	170	ug/kg
105-67-9	2,4-Dimethylphenol	ND	170	ug/kg
51-28-5	2,4-Dinitrophenol	ND	170	ug/kg
121-14-2	2,4-Dinitrotoluene	ND	170	ug/kg
606-20-2	2,6-Dinitrotoluene	ND	170	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 3
Sample Description: 841110628-03

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 11:50
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 21:33 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 4.5
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32800.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
206-44-0	Fluoranthene	720	170	ug/kg
86-73-7	Fluorene	ND	170	ug/kg
118-74-1	Hexachlorobenzene	ND	170	ug/kg
87-68-3	Hexachlorobutadiene	ND	170	ug/kg
77-47-4	Hexachlorocyclopentadiene	ND	170	ug/kg
67-72-1	Hexachloroethane	ND	170	ug/kg
193-39-5	Indeno[1,2,3-cd]pyrene	180	170	ug/kg
78-59-1	Isophorone	ND	170	ug/kg
534-52-1	2-Methyl-4,6-dinitrophenol	ND	170	ug/kg
91-57-6	2-Methylnaphthalene	ND	170	ug/kg
95-48-7	2-Methylphenol	ND	170	ug/kg
108-39-4	3- & 4-Methylphenols	ND	350	ug/kg
91-20-3	Naphthalene	ND	170	ug/kg
88-74-4	2-Nitroaniline	ND	350	ug/kg
99-09-2	3-Nitroaniline	ND	350	ug/kg
100-01-6	4-Nitroaniline	ND	350	ug/kg
98-95-3	Nitrobenzene	ND	170	ug/kg
88-75-5	2-Nitrophenol	ND	170	ug/kg
100-02-1	4-Nitrophenol	ND	170	ug/kg
621-64-7	N-Nitrosodi-n-propylamine	ND	170	ug/kg
62-75-9	N-Nitrosodimethylamine	ND	170	ug/kg
86-30-6	N-Nitrosodiphenylamine	ND	170	ug/kg
87-86-5	Pentachlorophenol	ND	170	ug/kg
85-01-8	Phenanthrene	860	170	ug/kg
108-95-2	Phenol	ND	170	ug/kg
129-00-0	Pyrene	780	170	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	170	ug/kg
95-95-4	2,4,5-Trichlorophenol	ND	170	ug/kg
88-06-2	2,4,6-Trichlorophenol	ND	170	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
2,4,6-Tribromophenol	78%	18%-118%
2-Fluorobiphenyl	50%	24%-101%
2-Fluorophenol	45%	10%-94%
4-Terphenyl-d14	97%	20%-133%
Nitrobenzene-d5	52%	16%-98%
Phenol-d6	49%	15%-102%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 3
Sample Description: 841110628-03

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 11:50
Date Received: 06/29/2011 16:10
Date Extracted: 07/05/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 03:53 By: MRB
Preparation Method: 8100
Analytical Method: 8100

Matrix: Solid
Percent Moisture: 4.5
Sample Weight/Volume: 10.12
Dilution Factor: 1
Extract Volume: 1
Lab Data File: 6070635.D
QC Batch#: 86265

CAS No.	Parameter	Result	DL	Units
	C6-C12 Light Petroleum Distillate	ND	21	mg/kg
	C10-C28 Medium Petroleum Distillate	ND	21	mg/kg
	C16-C36 Heavy Petroleum Distillate	29	21	mg/kg
	Total PHC	29	21	mg/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 3
Sample Description: 841110628-03

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 11:50
Date Received: 06/29/2011 16:10
Date Extracted: 06/30/2011 09:00 By: DPR
Date Analyzed: 07/05/2011 13:38 By: MRB
Preparation Method: 3500
Analytical Method: 8082

Matrix: Solid
Percent Moisture: 4.5
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 8070507.D
QC Batch#: 86192

CAS No.	Parameter	Result	DL	Units
12674-11-2	Aroclor 1016	ND	14	ug/kg
11104-28-2	Aroclor 1221	ND	14	ug/kg
11141-16-5	Aroclor 1232	ND	14	ug/kg
53469-21-9	Aroclor 1242	ND	14	ug/kg
12672-29-6	Aroclor 1248	ND	14	ug/kg
11097-69-1	Aroclor 1254	ND	14	ug/kg
11096-82-5	Aroclor 1260	ND	14	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	69%	10%-103%
Decachlorobiphenyl	118%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 3
Sample Description: 841110628-03

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 11:50
Date Received: 06/29/2011 16:10
Date Analyzed: 06/30/2011 12:40 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 4.5
Dilution Factor: 1
Lab Data File: J46000.D
QC Batch#: 86074

CAS No.	Parameter	Result	DL	Units
67-64-1	Acetone	ND	8.9	ug/kg
107-13-1	Acrylonitrile	ND	4.5	ug/kg
71-43-2	Benzene	ND	4.5	ug/kg
108-86-1	Bromobenzene	ND	4.5	ug/kg
74-97-5	Bromochloromethane	ND	4.5	ug/kg
75-27-4	Bromodichloromethane	ND	4.5	ug/kg
75-25-2	Bromoform	ND	4.5	ug/kg
74-83-9	Bromomethane	ND	4.5	ug/kg
78-93-3	2-Butanone (MEK)	ND	8.9	ug/kg
104-51-8	n-Butylbenzene	ND	4.5	ug/kg
135-98-8	sec-Butylbenzene	ND	4.5	ug/kg
98-06-6	tert-Butylbenzene	ND	4.5	ug/kg
75-15-0	Carbon disulfide	ND	4.5	ug/kg
56-23-5	Carbon tetrachloride	ND	4.5	ug/kg
108-90-7	Chlorobenzene	ND	4.5	ug/kg
75-00-3	Chloroethane	ND	4.5	ug/kg
67-66-3	Chloroform	ND	4.5	ug/kg
74-87-3	Chloromethane	ND	4.5	ug/kg
95-49-8	2-Chlorotoluene	ND	4.5	ug/kg
106-43-4	4-Chlorotoluene	ND	4.5	ug/kg
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	4.5	ug/kg
124-48-1	Dibromochloromethane	ND	4.5	ug/kg
106-93-4	1,2-Dibromoethane (EDB)	ND	4.5	ug/kg
74-95-3	Dibromomethane	ND	4.5	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	4.5	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	4.5	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	4.5	ug/kg
75-71-8	Dichlorodifluoromethane	ND	4.5	ug/kg
75-34-3	1,1-Dichloroethane	ND	4.5	ug/kg
107-06-2	1,2-Dichloroethane	ND	4.5	ug/kg
75-35-4	1,1-Dichloroethene	ND	4.5	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	4.5	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	4.5	ug/kg
78-87-5	1,2-Dichloropropane	ND	4.5	ug/kg
142-28-9	1,3-Dichloropropane	ND	4.5	ug/kg
594-20-7	2,2-Dichloropropane	ND	4.5	ug/kg
563-58-6	1,1-Dichloropropene	ND	4.5	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	4.5	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	4.5	ug/kg
60-29-7	Diethyl ether	ND	4.5	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 3
Sample Description: 841110628-03

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 11:50
Date Received: 06/29/2011 16:10
Date Analyzed: 06/30/2011 12:40 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 4.5
Dilution Factor: 1
Lab Data File: J46000.D
QC Batch#: 86074

CAS No.	Parameter	Result	DL	Units
123-91-1	1,4-Dioxane	ND	18	ug/kg
100-41-4	Ethylbenzene	ND	4.5	ug/kg
87-68-3	Hexachlorobutadiene	ND	4.5	ug/kg
591-78-6	2-Hexanone	ND	8.9	ug/kg
98-82-8	Isopropylbenzene	ND	4.5	ug/kg
99-87-6	4-Isopropyltoluene	ND	4.5	ug/kg
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	4.5	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	8.9	ug/kg
75-09-2	Methylene chloride	ND	4.5	ug/kg
91-20-3	Naphthalene	ND	4.5	ug/kg
103-65-1	n-Propylbenzene	ND	4.5	ug/kg
100-42-5	Styrene	ND	4.5	ug/kg
109-99-9	Tetrahydrofuran	ND	4.5	ug/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	4.5	ug/kg
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4.5	ug/kg
96-18-4	1,2,3-Trichloropropane	ND	4.5	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.5	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.5	ug/kg
127-18-4	Tetrachloroethene (PCE)	ND	4.5	ug/kg
108-88-3	Toluene	ND	4.5	ug/kg
87-61-6	1,2,3-Trichlorobenzene	ND	4.5	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	4.5	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	4.5	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	4.5	ug/kg
79-01-6	Trichloroethene (TCE)	ND	4.5	ug/kg
75-69-4	Trichlorofluoromethane	ND	4.5	ug/kg
95-63-6	1,2,4-Trimethylbenzene	ND	4.5	ug/kg
108-67-8	1,3,5-Trimethylbenzene	ND	4.5	ug/kg
75-01-4	Vinyl chloride	ND	4.5	ug/kg
95-47-6	o-Xylene	ND	4.5	ug/kg
108-38-3	m,p-Xylenes	ND	8.9	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
1,2-Dichloroethane-d4	106%	82%-120%
Bromofluorobenzene	99%	70%-122%
Toluene-d8	98%	77%-126%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 4
Sample Description: 841110628-04

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 12:00
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 19:10 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 3.2
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32795.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
103-33-3	Azobenzene	ND	170	ug/kg
83-32-9	Acenaphthene	ND	170	ug/kg
208-96-8	Acenaphthylene	ND	170	ug/kg
62-53-3	Aniline	ND	340	ug/kg
120-12-7	Anthracene	ND	170	ug/kg
92-52-4	Biphenyl	ND	170	ug/kg
56-55-3	Benzo[a]anthracene	ND	170	ug/kg
50-32-8	Benzo[a]pyrene	ND	170	ug/kg
205-99-2	Benzo[b]fluoranthene	ND	170	ug/kg
191-24-2	Benzo[g,h,i]perylene	ND	170	ug/kg
207-08-9	Benzo[k]fluoranthene	ND	170	ug/kg
65-85-0	Benzoic acid	ND	860	ug/kg
100-51-6	Benzyl alcohol	ND	340	ug/kg
85-68-7	Benzyl butyl phthalate	ND	170	ug/kg
111-91-1	Bis(2-chloroethoxy)methane	ND	170	ug/kg
111-44-4	Bis(2-chloroethyl)ether	ND	170	ug/kg
108-60-1	Bis(2-chloroisopropyl)ether	ND	340	ug/kg
117-81-7	Bis(2-ethylhexyl)phthalate	ND	170	ug/kg
101-55-3	4-Bromophenyl phenyl ether	ND	170	ug/kg
59-50-7	4-Chloro-3-methylphenol	ND	170	ug/kg
106-47-8	4-Chloroaniline	ND	340	ug/kg
91-58-7	2-Chloronaphthalene	ND	170	ug/kg
95-57-8	2-Chlorophenol	ND	170	ug/kg
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	ug/kg
218-01-9	Chrysene	ND	170	ug/kg
53-70-3	Dibenz[a,h]anthracene	ND	170	ug/kg
84-74-2	Di-n-butyl phthalate	ND	170	ug/kg
117-84-0	Di-n-octyl phthalate	ND	170	ug/kg
132-64-9	Dibenzofuran	ND	340	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	170	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	170	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	170	ug/kg
91-94-1	3,3-Dichlorobenzidine	ND	170	ug/kg
120-83-2	2,4-Dichlorophenol	ND	170	ug/kg
84-66-2	Diethyl phthalate	ND	170	ug/kg
131-11-3	Dimethyl phthalate	ND	170	ug/kg
105-67-9	2,4-Dimethylphenol	ND	170	ug/kg
51-28-5	2,4-Dinitrophenol	ND	170	ug/kg
121-14-2	2,4-Dinitrotoluene	ND	170	ug/kg
606-20-2	2,6-Dinitrotoluene	ND	170	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 4
Sample Description: 841110628-04

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 12:00
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 19:10 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 3.2
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32795.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
206-44-0	Fluoranthene	ND	170	ug/kg
86-73-7	Fluorene	ND	170	ug/kg
118-74-1	Hexachlorobenzene	ND	170	ug/kg
87-68-3	Hexachlorobutadiene	ND	170	ug/kg
77-47-4	Hexachlorocyclopentadiene	ND	170	ug/kg
67-72-1	Hexachloroethane	ND	170	ug/kg
193-39-5	Indeno[1,2,3-cd]pyrene	ND	170	ug/kg
78-59-1	Isophorone	ND	170	ug/kg
534-52-1	2-Methyl-4,6-dinitrophenol	ND	170	ug/kg
91-57-6	2-Methylnaphthalene	ND	170	ug/kg
95-48-7	2-Methylphenol	ND	170	ug/kg
108-39-4	3- & 4-Methylphenols	ND	340	ug/kg
91-20-3	Naphthalene	ND	170	ug/kg
88-74-4	2-Nitroaniline	ND	340	ug/kg
99-09-2	3-Nitroaniline	ND	340	ug/kg
100-01-6	4-Nitroaniline	ND	340	ug/kg
98-95-3	Nitrobenzene	ND	170	ug/kg
88-75-5	2-Nitrophenol	ND	170	ug/kg
100-02-1	4-Nitrophenol	ND	170	ug/kg
621-64-7	N-Nitrosodi-n-propylamine	ND	170	ug/kg
62-75-9	N-Nitrosodimethylamine	ND	170	ug/kg
86-30-6	N-Nitrosodiphenylamine	ND	170	ug/kg
87-86-5	Pentachlorophenol	ND	170	ug/kg
85-01-8	Phenanthrene	ND	170	ug/kg
108-95-2	Phenol	ND	170	ug/kg
129-00-0	Pyrene	ND	170	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	170	ug/kg
95-95-4	2,4,5-Trichlorophenol	ND	170	ug/kg
88-06-2	2,4,6-Trichlorophenol	ND	170	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
2,4,6-Tribromophenol	62%	18%-118%
2-Fluorobiphenyl	60%	24%-101%
2-Fluorophenol	33%	10%-94%
4-Terphenyl-d14	84%	20%-133%
Nitrobenzene-d5	60%	16%-98%
Phenol-d6	50%	15%-102%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 4
Sample Description: 841110628-04

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 12:00
Date Received: 06/29/2011 16:10
Date Extracted: 07/05/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 04:26 By: MRB
Preparation Method: 8100
Analytical Method: 8100

Matrix: Solid
Percent Moisture: 3.2
Sample Weight/Volume: 10.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: 6070636.D
QC Batch#: 86265

CAS No.	Parameter	Result	DL	Units
	C6-C12 Light Petroleum Distillate	ND	21	mg/kg
	C10-C28 Medium Petroleum Distillate	ND	21	mg/kg
	C16-C36 Heavy Petroleum Distillate	ND	21	mg/kg
	Total PHC	ND	21	mg/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 4
Sample Description: 841110628-04

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 12:00
Date Received: 06/29/2011 16:10
Date Extracted: 07/07/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 19:28 By: MRB
Preparation Method: 3500
Analytical Method: 8082

Matrix: Solid
Percent Moisture: 3.2
Sample Weight/Volume: 30.05
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 8070705.D
QC Batch#: 86262

CAS No.	Parameter	Result	DL	Units
12674-11-2	Aroclor 1016	ND	14	ug/kg
11104-28-2	Aroclor 1221	ND	14	ug/kg
11141-16-5	Aroclor 1232	ND	14	ug/kg
53469-21-9	Aroclor 1242	ND	14	ug/kg
12672-29-6	Aroclor 1248	ND	14	ug/kg
11097-69-1	Aroclor 1254	ND	14	ug/kg
11096-82-5	Aroclor 1260	ND	14	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	56%	10%-103%
Decachlorobiphenyl	60%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 4
Sample Description: 841110628-04

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 12:00
Date Received: 06/29/2011 16:10
Date Analyzed: 07/01/2011 15:07 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 3.2
Dilution Factor: 1
Lab Data File: J46033.D
QC Batch#: 86156

CAS No.	Parameter	Result	DL	Units
67-64-1	Acetone	ND	10	ug/kg
107-13-1	Acrylonitrile	ND	5.3	ug/kg
71-43-2	Benzene	ND	5.3	ug/kg
108-86-1	Bromobenzene	ND	5.3	ug/kg
74-97-5	Bromochloromethane	ND	5.3	ug/kg
75-27-4	Bromodichloromethane	ND	5.3	ug/kg
75-25-2	Bromoform	ND	5.3	ug/kg
74-83-9	Bromomethane	ND	5.3	ug/kg
78-93-3	2-Butanone (MEK)	ND	10	ug/kg
104-51-8	n-Butylbenzene	ND	5.3	ug/kg
135-98-8	sec-Butylbenzene	ND	5.3	ug/kg
98-06-6	tert-Butylbenzene	ND	5.3	ug/kg
75-15-0	Carbon disulfide	ND	5.3	ug/kg
56-23-5	Carbon tetrachloride	ND	5.3	ug/kg
108-90-7	Chlorobenzene	ND	5.3	ug/kg
75-00-3	Chloroethane	ND	5.3	ug/kg
67-66-3	Chloroform	ND	5.3	ug/kg
74-87-3	Chloromethane	ND	5.3	ug/kg
95-49-8	2-Chlorotoluene	ND	5.3	ug/kg
106-43-4	4-Chlorotoluene	ND	5.3	ug/kg
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	5.3	ug/kg
124-48-1	Dibromochloromethane	ND	5.3	ug/kg
106-93-4	1,2-Dibromoethane (EDB)	ND	5.3	ug/kg
74-95-3	Dibromomethane	ND	5.3	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	5.3	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	5.3	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	5.3	ug/kg
75-71-8	Dichlorodifluoromethane	ND	5.3	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.3	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.3	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.3	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.3	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.3	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.3	ug/kg
142-28-9	1,3-Dichloropropane	ND	5.3	ug/kg
594-20-7	2,2-Dichloropropane	ND	5.3	ug/kg
563-58-6	1,1-Dichloropropene	ND	5.3	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	ug/kg
60-29-7	Diethyl ether	ND	5.3	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 4
Sample Description: 841110628-04

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 12:00
Date Received: 06/29/2011 16:10
Date Analyzed: 07/01/2011 15:07 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 3.2
Dilution Factor: 1
Lab Data File: J46033.D
QC Batch#: 86156

CAS No.	Parameter	Result	DL	Units
123-91-1	1,4-Dioxane	ND	21	ug/kg
100-41-4	Ethylbenzene	ND	5.3	ug/kg
87-68-3	Hexachlorobutadiene	ND	5.3	ug/kg
591-78-6	2-Hexanone	ND	10	ug/kg
98-82-8	Isopropylbenzene	ND	5.3	ug/kg
99-87-6	4-Isopropyltoluene	ND	5.3	ug/kg
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	5.3	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	ug/kg
75-09-2	Methylene chloride	ND	5.3	ug/kg
91-20-3	Naphthalene	ND	5.3	ug/kg
103-65-1	n-Propylbenzene	ND	5.3	ug/kg
100-42-5	Styrene	ND	5.3	ug/kg
109-99-9	Tetrahydrofuran	ND	5.3	ug/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.3	ug/kg
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.3	ug/kg
96-18-4	1,2,3-Trichloropropane	ND	5.3	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.3	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	ug/kg
127-18-4	Tetrachloroethene (PCE)	ND	5.3	ug/kg
108-88-3	Toluene	ND	5.3	ug/kg
87-61-6	1,2,3-Trichlorobenzene	ND	5.3	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.3	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.3	ug/kg
79-01-6	Trichloroethene (TCE)	ND	5.3	ug/kg
75-69-4	Trichlorofluoromethane	ND	5.3	ug/kg
95-63-6	1,2,4-Trimethylbenzene	ND	5.3	ug/kg
108-67-8	1,3,5-Trimethylbenzene	ND	5.3	ug/kg
75-01-4	Vinyl chloride	ND	5.3	ug/kg
95-47-6	o-Xylene	ND	5.3	ug/kg
108-38-3	m,p-Xylenes	ND	10	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
1,2-Dichloroethane-d4	119%	82%-120%
Bromofluorobenzene	105%	70%-122%
Toluene-d8	101%	77%-126%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 5
Sample Description: 841110628-05

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 12:20
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 20:07 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 6.3
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32797.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
103-33-3	Azobenzene	ND	180	ug/kg
83-32-9	Acenaphthene	ND	180	ug/kg
208-96-8	Acenaphthylene	ND	180	ug/kg
62-53-3	Aniline	ND	360	ug/kg
120-12-7	Anthracene	ND	180	ug/kg
92-52-4	Biphenyl	ND	180	ug/kg
56-55-3	Benzo[a]anthracene	ND	180	ug/kg
50-32-8	Benzo[a]pyrene	ND	180	ug/kg
205-99-2	Benzo[b]fluoranthene	ND	180	ug/kg
191-24-2	Benzo[g,h,i]perylene	ND	180	ug/kg
207-08-9	Benzo[k]fluoranthene	ND	180	ug/kg
65-85-0	Benzoic acid	ND	890	ug/kg
100-51-6	Benzyl alcohol	ND	360	ug/kg
85-68-7	Benzyl butyl phthalate	ND	180	ug/kg
111-91-1	Bis(2-chloroethoxy)methane	ND	180	ug/kg
111-44-4	Bis(2-chloroethyl)ether	ND	180	ug/kg
108-60-1	Bis(2-chloroisopropyl)ether	ND	360	ug/kg
117-81-7	Bis(2-ethylhexyl)phthalate	ND	180	ug/kg
101-55-3	4-Bromophenyl phenyl ether	ND	180	ug/kg
59-50-7	4-Chloro-3-methylphenol	ND	180	ug/kg
106-47-8	4-Chloroaniline	ND	360	ug/kg
91-58-7	2-Chloronaphthalene	ND	180	ug/kg
95-57-8	2-Chlorophenol	ND	180	ug/kg
7005-72-3	4-Chlorophenyl phenyl ether	ND	180	ug/kg
218-01-9	Chrysene	ND	180	ug/kg
53-70-3	Dibenz[a,h]anthracene	ND	180	ug/kg
84-74-2	Di-n-butyl phthalate	ND	180	ug/kg
117-84-0	Di-n-octyl phthalate	ND	180	ug/kg
132-64-9	Dibenzofuran	ND	360	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	180	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	180	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	180	ug/kg
91-94-1	3,3-Dichlorobenzidine	ND	180	ug/kg
120-83-2	2,4-Dichlorophenol	ND	180	ug/kg
84-66-2	Diethyl phthalate	ND	180	ug/kg
131-11-3	Dimethyl phthalate	ND	180	ug/kg
105-67-9	2,4-Dimethylphenol	ND	180	ug/kg
51-28-5	2,4-Dinitrophenol	ND	180	ug/kg
121-14-2	2,4-Dinitrotoluene	ND	180	ug/kg
606-20-2	2,6-Dinitrotoluene	ND	180	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 5
Sample Description: 841110628-05

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 12:20
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 20:07 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 6.3
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32797.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
206-44-0	Fluoranthene	ND	180	ug/kg
86-73-7	Fluorene	ND	180	ug/kg
118-74-1	Hexachlorobenzene	ND	180	ug/kg
87-68-3	Hexachlorobutadiene	ND	180	ug/kg
77-47-4	Hexachlorocyclopentadiene	ND	180	ug/kg
67-72-1	Hexachloroethane	ND	180	ug/kg
193-39-5	Indeno[1,2,3-cd]pyrene	ND	180	ug/kg
78-59-1	Isophorone	ND	180	ug/kg
534-52-1	2-Methyl-4,6-dinitrophenol	ND	180	ug/kg
91-57-6	2-Methylnaphthalene	ND	180	ug/kg
95-48-7	2-Methylphenol	ND	180	ug/kg
108-39-4	3- & 4-Methylphenols	ND	360	ug/kg
91-20-3	Naphthalene	ND	180	ug/kg
88-74-4	2-Nitroaniline	ND	360	ug/kg
99-09-2	3-Nitroaniline	ND	360	ug/kg
100-01-6	4-Nitroaniline	ND	360	ug/kg
98-95-3	Nitrobenzene	ND	180	ug/kg
88-75-5	2-Nitrophenol	ND	180	ug/kg
100-02-1	4-Nitrophenol	ND	180	ug/kg
621-64-7	N-Nitrosodi-n-propylamine	ND	180	ug/kg
62-75-9	N-Nitrosodimethylamine	ND	180	ug/kg
86-30-6	N-Nitrosodiphenylamine	ND	180	ug/kg
87-86-5	Pentachlorophenol	ND	180	ug/kg
85-01-8	Phenanthrene	ND	180	ug/kg
108-95-2	Phenol	ND	180	ug/kg
129-00-0	Pyrene	ND	180	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	180	ug/kg
95-95-4	2,4,5-Trichlorophenol	ND	180	ug/kg
88-06-2	2,4,6-Trichlorophenol	ND	180	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
2,4,6-Tribromophenol	81%	18%-118%
2-Fluorobiphenyl	45%	24%-101%
2-Fluorophenol	39%	10%-94%
4-Terphenyl-d14	83%	20%-133%
Nitrobenzene-d5	41%	16%-98%
Phenol-d6	43%	15%-102%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 5
Sample Description: 841110628-05

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 12:20
Date Received: 06/29/2011 16:10
Date Extracted: 07/05/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 04:59 By: MRB
Preparation Method: 8100
Analytical Method: 8100

Matrix: Solid
Percent Moisture: 6.3
Sample Weight/Volume: 10.15
Dilution Factor: 1
Extract Volume: 1
Lab Data File: 6070637.D
QC Batch#: 86265

CAS No.	Parameter	Result	DL	Units
	C6-C12 Light Petroleum Distillate	ND	21	mg/kg
	C10-C28 Medium Petroleum Distillate	ND	21	mg/kg
	C16-C36 Heavy Petroleum Distillate	ND	21	mg/kg
	Total PHC	ND	21	mg/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 5
Sample Description: 841110628-05

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 12:20
Date Received: 06/29/2011 16:10
Date Extracted: 07/07/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 19:47 By: MRB
Preparation Method: 3500
Analytical Method: 8082

Matrix: Solid
Percent Moisture: 6.3
Sample Weight/Volume: 30.10
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 8070706.D
QC Batch#: 86262

CAS No.	Parameter	Result	DL	Units
12674-11-2	Aroclor 1016	ND	14	ug/kg
11104-28-2	Aroclor 1221	ND	14	ug/kg
11141-16-5	Aroclor 1232	ND	14	ug/kg
53469-21-9	Aroclor 1242	ND	14	ug/kg
12672-29-6	Aroclor 1248	ND	14	ug/kg
11097-69-1	Aroclor 1254	ND	14	ug/kg
11096-82-5	Aroclor 1260	ND	14	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	85%	10%-103%
Decachlorobiphenyl	92%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 5
Sample Description: 841110628-05

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 12:20
Date Received: 06/29/2011 16:10
Date Analyzed: 06/30/2011 13:35 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 6.3
Dilution Factor: 1
Lab Data File: J46002.D
QC Batch#: 86074

CAS No.	Parameter	Result	DL	Units
67-64-1	Acetone	ND	11	ug/kg
107-13-1	Acrylonitrile	ND	5.6	ug/kg
71-43-2	Benzene	ND	5.6	ug/kg
108-86-1	Bromobenzene	ND	5.6	ug/kg
74-97-5	Bromochloromethane	ND	5.6	ug/kg
75-27-4	Bromodichloromethane	ND	5.6	ug/kg
75-25-2	Bromoform	ND	5.6	ug/kg
74-83-9	Bromomethane	ND	5.6	ug/kg
78-93-3	2-Butanone (MEK)	ND	11	ug/kg
104-51-8	n-Butylbenzene	ND	5.6	ug/kg
135-98-8	sec-Butylbenzene	ND	5.6	ug/kg
98-06-6	tert-Butylbenzene	ND	5.6	ug/kg
75-15-0	Carbon disulfide	ND	5.6	ug/kg
56-23-5	Carbon tetrachloride	ND	5.6	ug/kg
108-90-7	Chlorobenzene	ND	5.6	ug/kg
75-00-3	Chloroethane	ND	5.6	ug/kg
67-66-3	Chloroform	ND	5.6	ug/kg
74-87-3	Chloromethane	ND	5.6	ug/kg
95-49-8	2-Chlorotoluene	ND	5.6	ug/kg
106-43-4	4-Chlorotoluene	ND	5.6	ug/kg
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	5.6	ug/kg
124-48-1	Dibromochloromethane	ND	5.6	ug/kg
106-93-4	1,2-Dibromoethane (EDB)	ND	5.6	ug/kg
74-95-3	Dibromomethane	ND	5.6	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	5.6	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	5.6	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	5.6	ug/kg
75-71-8	Dichlorodifluoromethane	ND	5.6	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.6	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.6	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.6	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.6	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.6	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.6	ug/kg
142-28-9	1,3-Dichloropropane	ND	5.6	ug/kg
594-20-7	2,2-Dichloropropane	ND	5.6	ug/kg
563-58-6	1,1-Dichloropropene	ND	5.6	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	ug/kg
60-29-7	Diethyl ether	ND	5.6	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 5
Sample Description: 841110628-05

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 12:20
Date Received: 06/29/2011 16:10
Date Analyzed: 06/30/2011 13:35 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 6.3
Dilution Factor: 1
Lab Data File: J46002.D
QC Batch#: 86074

CAS No.	Parameter	Result	DL	Units
123-91-1	1,4-Dioxane	ND	22	ug/kg
100-41-4	Ethylbenzene	ND	5.6	ug/kg
87-68-3	Hexachlorobutadiene	ND	5.6	ug/kg
591-78-6	2-Hexanone	ND	11	ug/kg
98-82-8	Isopropylbenzene	ND	5.6	ug/kg
99-87-6	4-Isopropyltoluene	ND	5.6	ug/kg
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	5.6	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	11	ug/kg
75-09-2	Methylene chloride	ND	5.6	ug/kg
91-20-3	Naphthalene	ND	5.6	ug/kg
103-65-1	n-Propylbenzene	ND	5.6	ug/kg
100-42-5	Styrene	ND	5.6	ug/kg
109-99-9	Tetrahydrofuran	ND	5.6	ug/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.6	ug/kg
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.6	ug/kg
96-18-4	1,2,3-Trichloropropane	ND	5.6	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.6	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg
127-18-4	Tetrachloroethene (PCE)	ND	5.6	ug/kg
108-88-3	Toluene	ND	5.6	ug/kg
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.6	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.6	ug/kg
79-01-6	Trichloroethene (TCE)	ND	5.6	ug/kg
75-69-4	Trichlorofluoromethane	ND	5.6	ug/kg
95-63-6	1,2,4-Trimethylbenzene	ND	5.6	ug/kg
108-67-8	1,3,5-Trimethylbenzene	ND	5.6	ug/kg
75-01-4	Vinyl chloride	ND	5.6	ug/kg
95-47-6	o-Xylene	ND	5.6	ug/kg
108-38-3	m,p-Xylenes	ND	11	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
1,2-Dichloroethane-d4	111%	82%-120%
Bromofluorobenzene	102%	70%-122%
Toluene-d8	99%	77%-126%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 6
Sample Description: 841110628-06

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 12:50
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 17:16 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 4.0
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32791.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
103-33-3	Azobenzene	ND	170	ug/kg
83-32-9	Acenaphthene	ND	170	ug/kg
208-96-8	Acenaphthylene	ND	170	ug/kg
62-53-3	Aniline	ND	350	ug/kg
120-12-7	Anthracene	ND	170	ug/kg
92-52-4	Biphenyl	ND	170	ug/kg
56-55-3	Benzo[a]anthracene	ND	170	ug/kg
50-32-8	Benzo[a]pyrene	ND	170	ug/kg
205-99-2	Benzo[b]fluoranthene	ND	170	ug/kg
191-24-2	Benzo[g,h,i]perylene	ND	170	ug/kg
207-08-9	Benzo[k]fluoranthene	ND	170	ug/kg
65-85-0	Benzoic acid	ND	870	ug/kg
100-51-6	Benzyl alcohol	ND	350	ug/kg
85-68-7	Benzyl butyl phthalate	ND	170	ug/kg
111-91-1	Bis(2-chloroethoxy)methane	ND	170	ug/kg
111-44-4	Bis(2-chloroethyl)ether	ND	170	ug/kg
108-60-1	Bis(2-chloroisopropyl)ether	ND	350	ug/kg
117-81-7	Bis(2-ethylhexyl)phthalate	ND	170	ug/kg
101-55-3	4-Bromophenyl phenyl ether	ND	170	ug/kg
59-50-7	4-Chloro-3-methylphenol	ND	170	ug/kg
106-47-8	4-Chloroaniline	ND	350	ug/kg
91-58-7	2-Chloronaphthalene	ND	170	ug/kg
95-57-8	2-Chlorophenol	ND	170	ug/kg
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	ug/kg
218-01-9	Chrysene	ND	170	ug/kg
53-70-3	Dibenz[a,h]anthracene	ND	170	ug/kg
84-74-2	Di-n-butyl phthalate	ND	170	ug/kg
117-84-0	Di-n-octyl phthalate	ND	170	ug/kg
132-64-9	Dibenzofuran	ND	350	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	170	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	170	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	170	ug/kg
91-94-1	3,3-Dichlorobenzidine	ND	170	ug/kg
120-83-2	2,4-Dichlorophenol	ND	170	ug/kg
84-66-2	Diethyl phthalate	ND	170	ug/kg
131-11-3	Dimethyl phthalate	ND	170	ug/kg
105-67-9	2,4-Dimethylphenol	ND	170	ug/kg
51-28-5	2,4-Dinitrophenol	ND	170	ug/kg
121-14-2	2,4-Dinitrotoluene	ND	170	ug/kg
606-20-2	2,6-Dinitrotoluene	ND	170	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 6
Sample Description: 841110628-06

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 12:50
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 17:16 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 4.0
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32791.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
206-44-0	Fluoranthene	ND	170	ug/kg
86-73-7	Fluorene	ND	170	ug/kg
118-74-1	Hexachlorobenzene	ND	170	ug/kg
87-68-3	Hexachlorobutadiene	ND	170	ug/kg
77-47-4	Hexachlorocyclopentadiene	ND	170	ug/kg
67-72-1	Hexachloroethane	ND	170	ug/kg
193-39-5	Indeno[1,2,3-cd]pyrene	ND	170	ug/kg
78-59-1	Isophorone	ND	170	ug/kg
534-52-1	2-Methyl-4,6-dinitrophenol	ND	170	ug/kg
91-57-6	2-Methylnaphthalene	ND	170	ug/kg
95-48-7	2-Methylphenol	ND	170	ug/kg
108-39-4	3- & 4-Methylphenols	ND	350	ug/kg
91-20-3	Naphthalene	ND	170	ug/kg
88-74-4	2-Nitroaniline	ND	350	ug/kg
99-09-2	3-Nitroaniline	ND	350	ug/kg
100-01-6	4-Nitroaniline	ND	350	ug/kg
98-95-3	Nitrobenzene	ND	170	ug/kg
88-75-5	2-Nitrophenol	ND	170	ug/kg
100-02-1	4-Nitrophenol	ND	170	ug/kg
621-64-7	N-Nitrosodi-n-propylamine	ND	170	ug/kg
62-75-9	N-Nitrosodimethylamine	ND	170	ug/kg
86-30-6	N-Nitrosodiphenylamine	ND	170	ug/kg
87-86-5	Pentachlorophenol	ND	170	ug/kg
85-01-8	Phenanthrene	ND	170	ug/kg
108-95-2	Phenol	ND	170	ug/kg
129-00-0	Pyrene	ND	170	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	170	ug/kg
95-95-4	2,4,5-Trichlorophenol	ND	170	ug/kg
88-06-2	2,4,6-Trichlorophenol	ND	170	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
2,4,6-Tribromophenol	45%	18%-118%
2-Fluorobiphenyl	29%	24%-101%
2-Fluorophenol	25%	10%-94%
4-Terphenyl-d14	46%	20%-133%
Nitrobenzene-d5	29%	16%-98%
Phenol-d6	26%	15%-102%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 6
Sample Description: 841110628-06

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 12:50
Date Received: 06/29/2011 16:10
Date Extracted: 07/05/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 05:32 By: MRB
Preparation Method: 8100
Analytical Method: 8100

Matrix: Solid
Percent Moisture: 4.0
Sample Weight/Volume: 10.19
Dilution Factor: 1
Extract Volume: 1
Lab Data File: 6070638.D
QC Batch#: 86265

CAS No.	Parameter	Result	DL	Units
	C6-C12 Light Petroleum Distillate	ND	20	mg/kg
	C10-C28 Medium Petroleum Distillate	ND	20	mg/kg
	C16-C36 Heavy Petroleum Distillate	ND	20	mg/kg
	Total PHC	ND	20	mg/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 6
Sample Description: 841110628-06

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 12:50
Date Received: 06/29/2011 16:10
Date Extracted: 07/07/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 20:06 By: MRB
Preparation Method: 3500
Analytical Method: 8082

Matrix: Solid
Percent Moisture: 4.0
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 8070707.D
QC Batch#: 86262

CAS No.	Parameter	Result	DL	Units
12674-11-2	Aroclor 1016	ND	14	ug/kg
11104-28-2	Aroclor 1221	ND	14	ug/kg
11141-16-5	Aroclor 1232	ND	14	ug/kg
53469-21-9	Aroclor 1242	ND	14	ug/kg
12672-29-6	Aroclor 1248	ND	14	ug/kg
11097-69-1	Aroclor 1254	ND	14	ug/kg
11096-82-5	Aroclor 1260	ND	14	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	70%	10%-103%
Decachlorobiphenyl	86%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 6
Sample Description: 841110628-06

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 12:50
Date Received: 06/29/2011 16:10
Date Analyzed: 06/30/2011 14:03 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 4.0
Dilution Factor: 1
Lab Data File: J46003.D
QC Batch#: 86074

CAS No.	Parameter	Result	DL	Units
67-64-1	Acetone	ND	9.2	ug/kg
107-13-1	Acrylonitrile	ND	4.6	ug/kg
71-43-2	Benzene	ND	4.6	ug/kg
108-86-1	Bromobenzene	ND	4.6	ug/kg
74-97-5	Bromochloromethane	ND	4.6	ug/kg
75-27-4	Bromodichloromethane	ND	4.6	ug/kg
75-25-2	Bromoform	ND	4.6	ug/kg
74-83-9	Bromomethane	ND	4.6	ug/kg
78-93-3	2-Butanone (MEK)	ND	9.2	ug/kg
104-51-8	n-Butylbenzene	ND	4.6	ug/kg
135-98-8	sec-Butylbenzene	ND	4.6	ug/kg
98-06-6	tert-Butylbenzene	ND	4.6	ug/kg
75-15-0	Carbon disulfide	ND	4.6	ug/kg
56-23-5	Carbon tetrachloride	ND	4.6	ug/kg
108-90-7	Chlorobenzene	ND	4.6	ug/kg
75-00-3	Chloroethane	ND	4.6	ug/kg
67-66-3	Chloroform	ND	4.6	ug/kg
74-87-3	Chloromethane	ND	4.6	ug/kg
95-49-8	2-Chlorotoluene	ND	4.6	ug/kg
106-43-4	4-Chlorotoluene	ND	4.6	ug/kg
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	4.6	ug/kg
124-48-1	Dibromochloromethane	ND	4.6	ug/kg
106-93-4	1,2-Dibromoethane (EDB)	ND	4.6	ug/kg
74-95-3	Dibromomethane	ND	4.6	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	4.6	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	4.6	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	4.6	ug/kg
75-71-8	Dichlorodifluoromethane	ND	4.6	ug/kg
75-34-3	1,1-Dichloroethane	ND	4.6	ug/kg
107-06-2	1,2-Dichloroethane	ND	4.6	ug/kg
75-35-4	1,1-Dichloroethene	ND	4.6	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	4.6	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	4.6	ug/kg
78-87-5	1,2-Dichloropropane	ND	4.6	ug/kg
142-28-9	1,3-Dichloropropane	ND	4.6	ug/kg
594-20-7	2,2-Dichloropropane	ND	4.6	ug/kg
563-58-6	1,1-Dichloropropene	ND	4.6	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	4.6	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	4.6	ug/kg
60-29-7	Diethyl ether	ND	4.6	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 6
Sample Description: 841110628-06

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 12:50
Date Received: 06/29/2011 16:10
Date Analyzed: 06/30/2011 14:03 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 4.0
Dilution Factor: 1
Lab Data File: J46003.D
QC Batch#: 86074

CAS No.	Parameter	Result	DL	Units
123-91-1	1,4-Dioxane	ND	18	ug/kg
100-41-4	Ethylbenzene	ND	4.6	ug/kg
87-68-3	Hexachlorobutadiene	ND	4.6	ug/kg
591-78-6	2-Hexanone	ND	9.2	ug/kg
98-82-8	Isopropylbenzene	ND	4.6	ug/kg
99-87-6	4-Isopropyltoluene	ND	4.6	ug/kg
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	4.6	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	9.2	ug/kg
75-09-2	Methylene chloride	ND	4.6	ug/kg
91-20-3	Naphthalene	ND	4.6	ug/kg
103-65-1	n-Propylbenzene	ND	4.6	ug/kg
100-42-5	Styrene	ND	4.6	ug/kg
109-99-9	Tetrahydrofuran	ND	4.6	ug/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	4.6	ug/kg
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4.6	ug/kg
96-18-4	1,2,3-Trichloropropane	ND	4.6	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.6	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.6	ug/kg
127-18-4	Tetrachloroethene (PCE)	ND	4.6	ug/kg
108-88-3	Toluene	ND	4.6	ug/kg
87-61-6	1,2,3-Trichlorobenzene	ND	4.6	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	4.6	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	4.6	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	4.6	ug/kg
79-01-6	Trichloroethene (TCE)	ND	4.6	ug/kg
75-69-4	Trichlorofluoromethane	ND	4.6	ug/kg
95-63-6	1,2,4-Trimethylbenzene	ND	4.6	ug/kg
108-67-8	1,3,5-Trimethylbenzene	ND	4.6	ug/kg
75-01-4	Vinyl chloride	ND	4.6	ug/kg
95-47-6	o-Xylene	ND	4.6	ug/kg
108-38-3	m,p-Xylenes	ND	9.2	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
1,2-Dichloroethane-d4	112%	82%-120%
Bromofluorobenzene	100%	70%-122%
Toluene-d8	98%	77%-126%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 7
Sample Description: 841110628-07

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 13:40
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 22:01 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 9.8
Sample Weight/Volume: 30.00
Dilution Factor: 2
Extract Volume: 1
Lab Data File: L32801.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
103-33-3	Azobenzene	ND	370	ug/kg
83-32-9	Acenaphthene	ND	370	ug/kg
208-96-8	Acenaphthylene	ND	370	ug/kg
62-53-3	Aniline	ND	740	ug/kg
120-12-7	Anthracene	ND	370	ug/kg
92-52-4	Biphenyl	ND	370	ug/kg
56-55-3	Benzo[a]anthracene	ND	370	ug/kg
50-32-8	Benzo[a]pyrene	ND	370	ug/kg
205-99-2	Benzo[b]fluoranthene	430	370	ug/kg
191-24-2	Benzo[g,h,i]perylene	ND	370	ug/kg
207-08-9	Benzo[k]fluoranthene	ND	370	ug/kg
65-85-0	Benzoic acid	ND	1800	ug/kg
100-51-6	Benzyl alcohol	ND	740	ug/kg
85-68-7	Benzyl butyl phthalate	ND	370	ug/kg
111-91-1	Bis(2-chloroethoxy)methane	ND	370	ug/kg
111-44-4	Bis(2-chloroethyl)ether	ND	370	ug/kg
108-60-1	Bis(2-chloroisopropyl)ether	ND	740	ug/kg
117-81-7	Bis(2-ethylhexyl)phthalate	ND	370	ug/kg
101-55-3	4-Bromophenyl phenyl ether	ND	370	ug/kg
59-50-7	4-Chloro-3-methylphenol	ND	370	ug/kg
106-47-8	4-Chloroaniline	ND	740	ug/kg
91-58-7	2-Chloronaphthalene	ND	370	ug/kg
95-57-8	2-Chlorophenol	ND	370	ug/kg
7005-72-3	4-Chlorophenyl phenyl ether	ND	370	ug/kg
218-01-9	Chrysene	ND	370	ug/kg
53-70-3	Dibenz[a,h]anthracene	ND	370	ug/kg
84-74-2	Di-n-butyl phthalate	ND	370	ug/kg
117-84-0	Di-n-octyl phthalate	ND	370	ug/kg
132-64-9	Dibenzofuran	ND	740	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	370	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	370	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	370	ug/kg
91-94-1	3,3-Dichlorobenzidine	ND	370	ug/kg
120-83-2	2,4-Dichlorophenol	ND	370	ug/kg
84-66-2	Diethyl phthalate	ND	370	ug/kg
131-11-3	Dimethyl phthalate	ND	370	ug/kg
105-67-9	2,4-Dimethylphenol	ND	370	ug/kg
51-28-5	2,4-Dinitrophenol	ND	370	ug/kg
121-14-2	2,4-Dinitrotoluene	ND	370	ug/kg
606-20-2	2,6-Dinitrotoluene	ND	370	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 7
Sample Description: 841110628-07

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 13:40
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 22:01 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 9.8
Sample Weight/Volume: 30.00
Dilution Factor: 2
Extract Volume: 1
Lab Data File: L32801.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
206-44-0	Fluoranthene	670	370	ug/kg
86-73-7	Fluorene	ND	370	ug/kg
118-74-1	Hexachlorobenzene	ND	370	ug/kg
87-68-3	Hexachlorobutadiene	ND	370	ug/kg
77-47-4	Hexachlorocyclopentadiene	ND	370	ug/kg
67-72-1	Hexachloroethane	ND	370	ug/kg
193-39-5	Indeno[1,2,3-cd]pyrene	ND	370	ug/kg
78-59-1	Isophorone	ND	370	ug/kg
534-52-1	2-Methyl-4,6-dinitrophenol	ND	370	ug/kg
91-57-6	2-Methylnaphthalene	ND	370	ug/kg
95-48-7	2-Methylphenol	ND	370	ug/kg
108-39-4	3- & 4-Methylphenols	ND	740	ug/kg
91-20-3	Naphthalene	ND	370	ug/kg
88-74-4	2-Nitroaniline	ND	740	ug/kg
99-09-2	3-Nitroaniline	ND	740	ug/kg
100-01-6	4-Nitroaniline	ND	740	ug/kg
98-95-3	Nitrobenzene	ND	370	ug/kg
88-75-5	2-Nitrophenol	ND	370	ug/kg
100-02-1	4-Nitrophenol	ND	370	ug/kg
621-64-7	N-Nitrosodi-n-propylamine	ND	370	ug/kg
62-75-9	N-Nitrosodimethylamine	ND	370	ug/kg
86-30-6	N-Nitrosodiphenylamine	ND	370	ug/kg
87-86-5	Pentachlorophenol	ND	370	ug/kg
85-01-8	Phenanthrene	510	370	ug/kg
108-95-2	Phenol	ND	370	ug/kg
129-00-0	Pyrene	730	370	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	370	ug/kg
95-95-4	2,4,5-Trichlorophenol	ND	370	ug/kg
88-06-2	2,4,6-Trichlorophenol	ND	370	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
2,4,6-Tribromophenol	103%	18%-118%
2-Fluorobiphenyl	82%	24%-101%
2-Fluorophenol	74%	10%-94%
4-Terphenyl-d14	116%	20%-133%
Nitrobenzene-d5	76%	16%-98%
Phenol-d6	78%	15%-102%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 7
Sample Description: 841110628-07

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 13:40
Date Received: 06/29/2011 16:10
Date Extracted: 07/05/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 06:06 By: MRB
Preparation Method: 8100
Analytical Method: 8100

Matrix: Solid
Percent Moisture: 9.8
Sample Weight/Volume: 10.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: 6070639.D
QC Batch#: 86265

CAS No.	Parameter	Result	DL	Units
	C6-C12 Light Petroleum Distillate	ND	22	mg/kg
	C10-C28 Medium Petroleum Distillate	ND	22	mg/kg
	C16-C36 Heavy Petroleum Distillate	56	22	mg/kg
	Total PHC	56	22	mg/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 7
Sample Description: 841110628-07

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 13:40
Date Received: 06/29/2011 16:10
Date Extracted: 07/07/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 20:25 By: MRB
Preparation Method: 3500
Analytical Method: 8082

Matrix: Solid
Percent Moisture: 9.8
Sample Weight/Volume: 30.10
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 8070708.D
QC Batch#: 86262

CAS No.	Parameter	Result	DL	Units
12674-11-2	Aroclor 1016	ND	15	ug/kg
11104-28-2	Aroclor 1221	ND	15	ug/kg
11141-16-5	Aroclor 1232	ND	15	ug/kg
53469-21-9	Aroclor 1242	ND	15	ug/kg
12672-29-6	Aroclor 1248	ND	15	ug/kg
11097-69-1	Aroclor 1254	ND	15	ug/kg
11096-82-5	Aroclor 1260	ND	15	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	46%	10%-103%
Decachlorobiphenyl	87%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 7
Sample Description: 841110628-07

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 13:40
Date Received: 06/29/2011 16:10
Date Analyzed: 07/01/2011 15:35 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 9.8
Dilution Factor: 1
Lab Data File: J46034.D
QC Batch#: 86156

CAS No.	Parameter	Result	DL	Units
67-64-1	Acetone	ND	12	ug/kg
107-13-1	Acrylonitrile	ND	6.0	ug/kg
71-43-2	Benzene	ND	6.0	ug/kg
108-86-1	Bromobenzene	ND	6.0	ug/kg
74-97-5	Bromochloromethane	ND	6.0	ug/kg
75-27-4	Bromodichloromethane	ND	6.0	ug/kg
75-25-2	Bromoform	ND	6.0	ug/kg
74-83-9	Bromomethane	ND	6.0	ug/kg
78-93-3	2-Butanone (MEK)	ND	12	ug/kg
104-51-8	n-Butylbenzene	ND	6.0	ug/kg
135-98-8	sec-Butylbenzene	ND	6.0	ug/kg
98-06-6	tert-Butylbenzene	ND	6.0	ug/kg
75-15-0	Carbon disulfide	ND	6.0	ug/kg
56-23-5	Carbon tetrachloride	ND	6.0	ug/kg
108-90-7	Chlorobenzene	ND	6.0	ug/kg
75-00-3	Chloroethane	ND	6.0	ug/kg
67-66-3	Chloroform	ND	6.0	ug/kg
74-87-3	Chloromethane	ND	6.0	ug/kg
95-49-8	2-Chlorotoluene	ND	6.0	ug/kg
106-43-4	4-Chlorotoluene	ND	6.0	ug/kg
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	6.0	ug/kg
124-48-1	Dibromochloromethane	ND	6.0	ug/kg
106-93-4	1,2-Dibromoethane (EDB)	ND	6.0	ug/kg
74-95-3	Dibromomethane	ND	6.0	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	6.0	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	6.0	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	6.0	ug/kg
75-71-8	Dichlorodifluoromethane	ND	6.0	ug/kg
75-34-3	1,1-Dichloroethane	ND	6.0	ug/kg
107-06-2	1,2-Dichloroethane	ND	6.0	ug/kg
75-35-4	1,1-Dichloroethene	ND	6.0	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	6.0	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	6.0	ug/kg
78-87-5	1,2-Dichloropropane	ND	6.0	ug/kg
142-28-9	1,3-Dichloropropane	ND	6.0	ug/kg
594-20-7	2,2-Dichloropropane	ND	6.0	ug/kg
563-58-6	1,1-Dichloropropene	ND	6.0	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	6.0	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	6.0	ug/kg
60-29-7	Diethyl ether	ND	6.0	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 7
Sample Description: 841110628-07

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 13:40
Date Received: 06/29/2011 16:10
Date Analyzed: 07/01/2011 15:35 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 9.8
Dilution Factor: 1
Lab Data File: J46034.D
QC Batch#: 86156

CAS No.	Parameter	Result	DL	Units
123-91-1	1,4-Dioxane	ND	24	ug/kg
100-41-4	Ethylbenzene	ND	6.0	ug/kg
87-68-3	Hexachlorobutadiene	ND	6.0	ug/kg
591-78-6	2-Hexanone	ND	12	ug/kg
98-82-8	Isopropylbenzene	ND	6.0	ug/kg
99-87-6	4-Isopropyltoluene	ND	6.0	ug/kg
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	6.0	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	12	ug/kg
75-09-2	Methylene chloride	ND	6.0	ug/kg
91-20-3	Naphthalene	ND	6.0	ug/kg
103-65-1	n-Propylbenzene	ND	6.0	ug/kg
100-42-5	Styrene	ND	6.0	ug/kg
109-99-9	Tetrahydrofuran	ND	6.0	ug/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	6.0	ug/kg
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	6.0	ug/kg
96-18-4	1,2,3-Trichloropropane	ND	6.0	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.0	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg
127-18-4	Tetrachloroethene (PCE)	ND	6.0	ug/kg
108-88-3	Toluene	ND	6.0	ug/kg
87-61-6	1,2,3-Trichlorobenzene	ND	6.0	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	6.0	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	6.0	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	6.0	ug/kg
79-01-6	Trichloroethene (TCE)	ND	6.0	ug/kg
75-69-4	Trichlorofluoromethane	ND	6.0	ug/kg
95-63-6	1,2,4-Trimethylbenzene	ND	6.0	ug/kg
108-67-8	1,3,5-Trimethylbenzene	ND	6.0	ug/kg
75-01-4	Vinyl chloride	ND	6.0	ug/kg
95-47-6	o-Xylene	ND	6.0	ug/kg
108-38-3	m,p-Xylenes	ND	12	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
1,2-Dichloroethane-d4	112%	82%-120%
Bromofluorobenzene	88%	70%-122%
Toluene-d8	109%	77%-126%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 8
Sample Description: 841110628-08

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 13:50
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 17:44 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 3.5
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32792.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
103-33-3	Azobenzene	ND	170	ug/kg
83-32-9	Acenaphthene	ND	170	ug/kg
208-96-8	Acenaphthylene	ND	170	ug/kg
62-53-3	Aniline	ND	340	ug/kg
120-12-7	Anthracene	ND	170	ug/kg
92-52-4	Biphenyl	ND	170	ug/kg
56-55-3	Benzo[a]anthracene	ND	170	ug/kg
50-32-8	Benzo[a]pyrene	ND	170	ug/kg
205-99-2	Benzo[b]fluoranthene	ND	170	ug/kg
191-24-2	Benzo[g,h,i]perylene	ND	170	ug/kg
207-08-9	Benzo[k]fluoranthene	ND	170	ug/kg
65-85-0	Benzoic acid	ND	860	ug/kg
100-51-6	Benzyl alcohol	ND	340	ug/kg
85-68-7	Benzyl butyl phthalate	ND	170	ug/kg
111-91-1	Bis(2-chloroethoxy)methane	ND	170	ug/kg
111-44-4	Bis(2-chloroethyl)ether	ND	170	ug/kg
108-60-1	Bis(2-chloroisopropyl)ether	ND	340	ug/kg
117-81-7	Bis(2-ethylhexyl)phthalate	ND	170	ug/kg
101-55-3	4-Bromophenyl phenyl ether	ND	170	ug/kg
59-50-7	4-Chloro-3-methylphenol	ND	170	ug/kg
106-47-8	4-Chloroaniline	ND	340	ug/kg
91-58-7	2-Chloronaphthalene	ND	170	ug/kg
95-57-8	2-Chlorophenol	ND	170	ug/kg
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	ug/kg
218-01-9	Chrysene	ND	170	ug/kg
53-70-3	Dibenz[a,h]anthracene	ND	170	ug/kg
84-74-2	Di-n-butyl phthalate	ND	170	ug/kg
117-84-0	Di-n-octyl phthalate	ND	170	ug/kg
132-64-9	Dibenzofuran	ND	340	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	170	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	170	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	170	ug/kg
91-94-1	3,3-Dichlorobenzidine	ND	170	ug/kg
120-83-2	2,4-Dichlorophenol	ND	170	ug/kg
84-66-2	Diethyl phthalate	ND	170	ug/kg
131-11-3	Dimethyl phthalate	ND	170	ug/kg
105-67-9	2,4-Dimethylphenol	ND	170	ug/kg
51-28-5	2,4-Dinitrophenol	ND	170	ug/kg
121-14-2	2,4-Dinitrotoluene	ND	170	ug/kg
606-20-2	2,6-Dinitrotoluene	ND	170	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 8
Sample Description: 841110628-08

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 13:50
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 17:44 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 3.5
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32792.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
206-44-0	Fluoranthene	ND	170	ug/kg
86-73-7	Fluorene	ND	170	ug/kg
118-74-1	Hexachlorobenzene	ND	170	ug/kg
87-68-3	Hexachlorobutadiene	ND	170	ug/kg
77-47-4	Hexachlorocyclopentadiene	ND	170	ug/kg
67-72-1	Hexachloroethane	ND	170	ug/kg
193-39-5	Indeno[1,2,3-cd]pyrene	ND	170	ug/kg
78-59-1	Isophorone	ND	170	ug/kg
534-52-1	2-Methyl-4,6-dinitrophenol	ND	170	ug/kg
91-57-6	2-Methylnaphthalene	ND	170	ug/kg
95-48-7	2-Methylphenol	ND	170	ug/kg
108-39-4	3- & 4-Methylphenols	ND	340	ug/kg
91-20-3	Naphthalene	ND	170	ug/kg
88-74-4	2-Nitroaniline	ND	340	ug/kg
99-09-2	3-Nitroaniline	ND	340	ug/kg
100-01-6	4-Nitroaniline	ND	340	ug/kg
98-95-3	Nitrobenzene	ND	170	ug/kg
88-75-5	2-Nitrophenol	ND	170	ug/kg
100-02-1	4-Nitrophenol	ND	170	ug/kg
621-64-7	N-Nitrosodi-n-propylamine	ND	170	ug/kg
62-75-9	N-Nitrosodimethylamine	ND	170	ug/kg
86-30-6	N-Nitrosodiphenylamine	ND	170	ug/kg
87-86-5	Pentachlorophenol	ND	170	ug/kg
85-01-8	Phenanthrene	ND	170	ug/kg
108-95-2	Phenol	ND	170	ug/kg
129-00-0	Pyrene	ND	170	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	170	ug/kg
95-95-4	2,4,5-Trichlorophenol	ND	170	ug/kg
88-06-2	2,4,6-Trichlorophenol	ND	170	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
2,4,6-Tribromophenol	64%	18%-118%
2-Fluorobiphenyl	40%	24%-101%
2-Fluorophenol	35%	10%-94%
4-Terphenyl-d14	80%	20%-133%
Nitrobenzene-d5	37%	16%-98%
Phenol-d6	39%	15%-102%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 8
Sample Description: 841110628-08

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 13:50
Date Received: 06/29/2011 16:10
Date Extracted: 07/05/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 06:39 By: MRB
Preparation Method: 8100
Analytical Method: 8100

Matrix: Solid
Percent Moisture: 3.5
Sample Weight/Volume: 10.08
Dilution Factor: 1
Extract Volume: 1
Lab Data File: 6070640.D
QC Batch#: 86265

CAS No.	Parameter	Result	DL	Units
	C6-C12 Light Petroleum Distillate	ND	20	mg/kg
	C10-C28 Medium Petroleum Distillate	ND	20	mg/kg
	C16-C36 Heavy Petroleum Distillate	ND	20	mg/kg
	Total PHC	ND	20	mg/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 8
Sample Description: 841110628-08

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 13:50
Date Received: 06/29/2011 16:10
Date Extracted: 07/07/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 20:44 By: MRB
Preparation Method: 3500
Analytical Method: 8082

Matrix: Solid
Percent Moisture: 3.5
Sample Weight/Volume: 30.15
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 8070709.D
QC Batch#: 86262

CAS No.	Parameter	Result	DL	Units
12674-11-2	Aroclor 1016	ND	14	ug/kg
11104-28-2	Aroclor 1221	ND	14	ug/kg
11141-16-5	Aroclor 1232	ND	14	ug/kg
53469-21-9	Aroclor 1242	ND	14	ug/kg
12672-29-6	Aroclor 1248	ND	14	ug/kg
11097-69-1	Aroclor 1254	ND	14	ug/kg
11096-82-5	Aroclor 1260	ND	14	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	81%	10%-103%
Decachlorobiphenyl	82%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 8
Sample Description: 841110628-08

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 13:50
Date Received: 06/29/2011 16:10
Date Analyzed: 06/30/2011 14:58 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 3.5
Dilution Factor: 1
Lab Data File: J46005.D
QC Batch#: 86074

CAS No.	Parameter	Result	DL	Units
67-64-1	Acetone	ND	5.1	ug/kg
107-13-1	Acrylonitrile	ND	2.5	ug/kg
71-43-2	Benzene	ND	2.5	ug/kg
108-86-1	Bromobenzene	ND	2.5	ug/kg
74-97-5	Bromochloromethane	ND	2.5	ug/kg
75-27-4	Bromodichloromethane	ND	2.5	ug/kg
75-25-2	Bromoform	ND	2.5	ug/kg
74-83-9	Bromomethane	ND	2.5	ug/kg
78-93-3	2-Butanone (MEK)	ND	5.1	ug/kg
104-51-8	n-Butylbenzene	ND	2.5	ug/kg
135-98-8	sec-Butylbenzene	ND	2.5	ug/kg
98-06-6	tert-Butylbenzene	ND	2.5	ug/kg
75-15-0	Carbon disulfide	ND	2.5	ug/kg
56-23-5	Carbon tetrachloride	ND	2.5	ug/kg
108-90-7	Chlorobenzene	ND	2.5	ug/kg
75-00-3	Chloroethane	ND	2.5	ug/kg
67-66-3	Chloroform	ND	2.5	ug/kg
74-87-3	Chloromethane	ND	2.5	ug/kg
95-49-8	2-Chlorotoluene	ND	2.5	ug/kg
106-43-4	4-Chlorotoluene	ND	2.5	ug/kg
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	2.5	ug/kg
124-48-1	Dibromochloromethane	ND	2.5	ug/kg
106-93-4	1,2-Dibromoethane (EDB)	ND	2.5	ug/kg
74-95-3	Dibromomethane	ND	2.5	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	2.5	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	2.5	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	2.5	ug/kg
75-71-8	Dichlorodifluoromethane	ND	2.5	ug/kg
75-34-3	1,1-Dichloroethane	ND	2.5	ug/kg
107-06-2	1,2-Dichloroethane	ND	2.5	ug/kg
75-35-4	1,1-Dichloroethene	ND	2.5	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	2.5	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	2.5	ug/kg
78-87-5	1,2-Dichloropropane	ND	2.5	ug/kg
142-28-9	1,3-Dichloropropane	ND	2.5	ug/kg
594-20-7	2,2-Dichloropropane	ND	2.5	ug/kg
563-58-6	1,1-Dichloropropene	ND	2.5	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	ug/kg
60-29-7	Diethyl ether	ND	2.5	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 8
Sample Description: 841110628-08

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 13:50
Date Received: 06/29/2011 16:10
Date Analyzed: 06/30/2011 14:58 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 3.5
Dilution Factor: 1
Lab Data File: J46005.D
QC Batch#: 86074

CAS No.	Parameter	Result	DL	Units
123-91-1	1,4-Dioxane	ND	10	ug/kg
100-41-4	Ethylbenzene	ND	2.5	ug/kg
87-68-3	Hexachlorobutadiene	ND	2.5	ug/kg
591-78-6	2-Hexanone	ND	5.1	ug/kg
98-82-8	Isopropylbenzene	ND	2.5	ug/kg
99-87-6	4-Isopropyltoluene	ND	2.5	ug/kg
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	2.5	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.1	ug/kg
75-09-2	Methylene chloride	ND	2.5	ug/kg
91-20-3	Naphthalene	ND	2.5	ug/kg
103-65-1	n-Propylbenzene	ND	2.5	ug/kg
100-42-5	Styrene	ND	2.5	ug/kg
109-99-9	Tetrahydrofuran	ND	2.5	ug/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	ug/kg
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.5	ug/kg
96-18-4	1,2,3-Trichloropropane	ND	2.5	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	ug/kg
127-18-4	Tetrachloroethene (PCE)	ND	2.5	ug/kg
108-88-3	Toluene	ND	2.5	ug/kg
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	2.5	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	2.5	ug/kg
79-01-6	Trichloroethene (TCE)	ND	2.5	ug/kg
75-69-4	Trichlorofluoromethane	ND	2.5	ug/kg
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	ug/kg
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	ug/kg
75-01-4	Vinyl chloride	ND	2.5	ug/kg
95-47-6	o-Xylene	ND	2.5	ug/kg
108-38-3	m,p-Xylenes	ND	5.1	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
1,2-Dichloroethane-d4	62%	80%-120%
Bromofluorobenzene	85%	80%-120%
Toluene-d8	136%	80%-120%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 9
Sample Description: 841110628-09

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 14:20
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 20:35 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 6.4
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32798.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
103-33-3	Azobenzene	ND	180	ug/kg
83-32-9	Acenaphthene	ND	180	ug/kg
208-96-8	Acenaphthylene	ND	180	ug/kg
62-53-3	Aniline	ND	360	ug/kg
120-12-7	Anthracene	ND	180	ug/kg
92-52-4	Biphenyl	ND	180	ug/kg
56-55-3	Benzo[a]anthracene	ND	180	ug/kg
50-32-8	Benzo[a]pyrene	ND	180	ug/kg
205-99-2	Benzo[b]fluoranthene	ND	180	ug/kg
191-24-2	Benzo[g,h,i]perylene	ND	180	ug/kg
207-08-9	Benzo[k]fluoranthene	ND	180	ug/kg
65-85-0	Benzoic acid	ND	890	ug/kg
100-51-6	Benzyl alcohol	ND	360	ug/kg
85-68-7	Benzyl butyl phthalate	ND	180	ug/kg
111-91-1	Bis(2-chloroethoxy)methane	ND	180	ug/kg
111-44-4	Bis(2-chloroethyl)ether	ND	180	ug/kg
108-60-1	Bis(2-chloroisopropyl)ether	ND	360	ug/kg
117-81-7	Bis(2-ethylhexyl)phthalate	ND	180	ug/kg
101-55-3	4-Bromophenyl phenyl ether	ND	180	ug/kg
59-50-7	4-Chloro-3-methylphenol	ND	180	ug/kg
106-47-8	4-Chloroaniline	ND	360	ug/kg
91-58-7	2-Chloronaphthalene	ND	180	ug/kg
95-57-8	2-Chlorophenol	ND	180	ug/kg
7005-72-3	4-Chlorophenyl phenyl ether	ND	180	ug/kg
218-01-9	Chrysene	ND	180	ug/kg
53-70-3	Dibenz[a,h]anthracene	ND	180	ug/kg
84-74-2	Di-n-butyl phthalate	ND	180	ug/kg
117-84-0	Di-n-octyl phthalate	ND	180	ug/kg
132-64-9	Dibenzofuran	ND	360	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	180	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	180	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	180	ug/kg
91-94-1	3,3-Dichlorobenzidine	ND	180	ug/kg
120-83-2	2,4-Dichlorophenol	ND	180	ug/kg
84-66-2	Diethyl phthalate	ND	180	ug/kg
131-11-3	Dimethyl phthalate	ND	180	ug/kg
105-67-9	2,4-Dimethylphenol	ND	180	ug/kg
51-28-5	2,4-Dinitrophenol	ND	180	ug/kg
121-14-2	2,4-Dinitrotoluene	ND	180	ug/kg
606-20-2	2,6-Dinitrotoluene	ND	180	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 9
Sample Description: 841110628-09

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 14:20
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 20:35 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 6.4
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32798.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
206-44-0	Fluoranthene	ND	180	ug/kg
86-73-7	Fluorene	ND	180	ug/kg
118-74-1	Hexachlorobenzene	ND	180	ug/kg
87-68-3	Hexachlorobutadiene	ND	180	ug/kg
77-47-4	Hexachlorocyclopentadiene	ND	180	ug/kg
67-72-1	Hexachloroethane	ND	180	ug/kg
193-39-5	Indeno[1,2,3-cd]pyrene	ND	180	ug/kg
78-59-1	Isophorone	ND	180	ug/kg
534-52-1	2-Methyl-4,6-dinitrophenol	ND	180	ug/kg
91-57-6	2-Methylnaphthalene	ND	180	ug/kg
95-48-7	2-Methylphenol	ND	180	ug/kg
108-39-4	3- & 4-Methylphenols	ND	360	ug/kg
91-20-3	Naphthalene	ND	180	ug/kg
88-74-4	2-Nitroaniline	ND	360	ug/kg
99-09-2	3-Nitroaniline	ND	360	ug/kg
100-01-6	4-Nitroaniline	ND	360	ug/kg
98-95-3	Nitrobenzene	ND	180	ug/kg
88-75-5	2-Nitrophenol	ND	180	ug/kg
100-02-1	4-Nitrophenol	ND	180	ug/kg
621-64-7	N-Nitrosodi-n-propylamine	ND	180	ug/kg
62-75-9	N-Nitrosodimethylamine	ND	180	ug/kg
86-30-6	N-Nitrosodiphenylamine	ND	180	ug/kg
87-86-5	Pentachlorophenol	ND	180	ug/kg
85-01-8	Phenanthrene	ND	180	ug/kg
108-95-2	Phenol	ND	180	ug/kg
129-00-0	Pyrene	ND	180	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	180	ug/kg
95-95-4	2,4,5-Trichlorophenol	ND	180	ug/kg
88-06-2	2,4,6-Trichlorophenol	ND	180	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
2,4,6-Tribromophenol	93%	18%-118%
2-Fluorobiphenyl	45%	24%-101%
2-Fluorophenol	38%	10%-94%
4-Terphenyl-d14	102%	20%-133%
Nitrobenzene-d5	39%	16%-98%
Phenol-d6	44%	15%-102%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 9
Sample Description: 841110628-09

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 14:20
Date Received: 06/29/2011 16:10
Date Extracted: 07/05/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 07:13 By: MRB
Preparation Method: 8100
Analytical Method: 8100

Matrix: Solid
Percent Moisture: 6.4
Sample Weight/Volume: 10.02
Dilution Factor: 1
Extract Volume: 1
Lab Data File: 6070641.D
QC Batch#: 86265

CAS No.	Parameter	Result	DL	Units
	C6-C12 Light Petroleum Distillate	ND	21	mg/kg
	C10-C28 Medium Petroleum Distillate	ND	21	mg/kg
	C16-C36 Heavy Petroleum Distillate	ND	21	mg/kg
	Total PHC	ND	21	mg/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 9
Sample Description: 841110628-09

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 14:20
Date Received: 06/29/2011 16:10
Date Extracted: 07/07/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 21:04 By: MRB
Preparation Method: 3500
Analytical Method: 8082

Matrix: Solid
Percent Moisture: 6.4
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 8070710.D
QC Batch#: 86262

CAS No.	Parameter	Result	DL	Units
12674-11-2	Aroclor 1016	ND	14	ug/kg
11104-28-2	Aroclor 1221	ND	14	ug/kg
11141-16-5	Aroclor 1232	ND	14	ug/kg
53469-21-9	Aroclor 1242	ND	14	ug/kg
12672-29-6	Aroclor 1248	ND	14	ug/kg
11097-69-1	Aroclor 1254	ND	14	ug/kg
11096-82-5	Aroclor 1260	ND	14	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	79%	10%-103%
Decachlorobiphenyl	93%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 9
Sample Description: 841110628-09

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 14:20
Date Received: 06/29/2011 16:10
Date Analyzed: 06/30/2011 15:25 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 6.4
Dilution Factor: 1
Lab Data File: J46006.D
QC Batch#: 86074

CAS No.	Parameter	Result	DL	Units
67-64-1	Acetone	ND	10	ug/kg
107-13-1	Acrylonitrile	ND	5.2	ug/kg
71-43-2	Benzene	ND	5.2	ug/kg
108-86-1	Bromobenzene	ND	5.2	ug/kg
74-97-5	Bromochloromethane	ND	5.2	ug/kg
75-27-4	Bromodichloromethane	ND	5.2	ug/kg
75-25-2	Bromoform	ND	5.2	ug/kg
74-83-9	Bromomethane	ND	5.2	ug/kg
78-93-3	2-Butanone (MEK)	ND	10	ug/kg
104-51-8	n-Butylbenzene	ND	5.2	ug/kg
135-98-8	sec-Butylbenzene	ND	5.2	ug/kg
98-06-6	tert-Butylbenzene	ND	5.2	ug/kg
75-15-0	Carbon disulfide	ND	5.2	ug/kg
56-23-5	Carbon tetrachloride	ND	5.2	ug/kg
108-90-7	Chlorobenzene	ND	5.2	ug/kg
75-00-3	Chloroethane	ND	5.2	ug/kg
67-66-3	Chloroform	ND	5.2	ug/kg
74-87-3	Chloromethane	ND	5.2	ug/kg
95-49-8	2-Chlorotoluene	ND	5.2	ug/kg
106-43-4	4-Chlorotoluene	ND	5.2	ug/kg
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	5.2	ug/kg
124-48-1	Dibromochloromethane	ND	5.2	ug/kg
106-93-4	1,2-Dibromoethane (EDB)	ND	5.2	ug/kg
74-95-3	Dibromomethane	ND	5.2	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	5.2	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	5.2	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	5.2	ug/kg
75-71-8	Dichlorodifluoromethane	ND	5.2	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.2	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.2	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.2	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.2	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.2	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.2	ug/kg
142-28-9	1,3-Dichloropropane	ND	5.2	ug/kg
594-20-7	2,2-Dichloropropane	ND	5.2	ug/kg
563-58-6	1,1-Dichloropropene	ND	5.2	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	ug/kg
60-29-7	Diethyl ether	ND	5.2	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 9
Sample Description: 841110628-09

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 14:20
Date Received: 06/29/2011 16:10
Date Analyzed: 06/30/2011 15:25 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 6.4
Dilution Factor: 1
Lab Data File: J46006.D
QC Batch#: 86074

CAS No.	Parameter	Result	DL	Units
123-91-1	1,4-Dioxane	ND	21	ug/kg
100-41-4	Ethylbenzene	ND	5.2	ug/kg
87-68-3	Hexachlorobutadiene	ND	5.2	ug/kg
591-78-6	2-Hexanone	ND	10	ug/kg
98-82-8	Isopropylbenzene	ND	5.2	ug/kg
99-87-6	4-Isopropyltoluene	ND	5.2	ug/kg
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	5.2	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	ug/kg
75-09-2	Methylene chloride	ND	5.2	ug/kg
91-20-3	Naphthalene	ND	5.2	ug/kg
103-65-1	n-Propylbenzene	ND	5.2	ug/kg
100-42-5	Styrene	ND	5.2	ug/kg
109-99-9	Tetrahydrofuran	ND	5.2	ug/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.2	ug/kg
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.2	ug/kg
96-18-4	1,2,3-Trichloropropane	ND	5.2	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.2	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg
127-18-4	Tetrachloroethene (PCE)	ND	5.2	ug/kg
108-88-3	Toluene	ND	5.2	ug/kg
87-61-6	1,2,3-Trichlorobenzene	ND	5.2	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.2	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.2	ug/kg
79-01-6	Trichloroethene (TCE)	ND	5.2	ug/kg
75-69-4	Trichlorofluoromethane	ND	5.2	ug/kg
95-63-6	1,2,4-Trimethylbenzene	ND	5.2	ug/kg
108-67-8	1,3,5-Trimethylbenzene	ND	5.2	ug/kg
75-01-4	Vinyl chloride	ND	5.2	ug/kg
95-47-6	o-Xylene	ND	5.2	ug/kg
108-38-3	m,p-Xylenes	ND	10	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
1,2-Dichloroethane-d4	111%	82%-120%
Bromofluorobenzene	95%	70%-122%
Toluene-d8	103%	77%-126%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 10
Sample Description: 841110628-10

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 14:30
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 22:30 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 7.8
Sample Weight/Volume: 30.00
Dilution Factor: 2
Extract Volume: 1
Lab Data File: L32802.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
103-33-3	Azobenzene	ND	360	ug/kg
83-32-9	Acenaphthene	ND	360	ug/kg
208-96-8	Acenaphthylene	ND	360	ug/kg
62-53-3	Aniline	ND	720	ug/kg
120-12-7	Anthracene	ND	360	ug/kg
92-52-4	Biphenyl	ND	360	ug/kg
56-55-3	Benzo[a]anthracene	ND	360	ug/kg
50-32-8	Benzo[a]pyrene	ND	360	ug/kg
205-99-2	Benzo[b]fluoranthene	ND	360	ug/kg
191-24-2	Benzo[g,h,i]perylene	ND	360	ug/kg
207-08-9	Benzo[k]fluoranthene	ND	360	ug/kg
65-85-0	Benzoic acid	ND	1800	ug/kg
100-51-6	Benzyl alcohol	ND	720	ug/kg
85-68-7	Benzyl butyl phthalate	ND	360	ug/kg
111-91-1	Bis(2-chloroethoxy)methane	ND	360	ug/kg
111-44-4	Bis(2-chloroethyl)ether	ND	360	ug/kg
108-60-1	Bis(2-chloroisopropyl)ether	ND	720	ug/kg
117-81-7	Bis(2-ethylhexyl)phthalate	ND	360	ug/kg
101-55-3	4-Bromophenyl phenyl ether	ND	360	ug/kg
59-50-7	4-Chloro-3-methylphenol	ND	360	ug/kg
106-47-8	4-Chloroaniline	ND	720	ug/kg
91-58-7	2-Chloronaphthalene	ND	360	ug/kg
95-57-8	2-Chlorophenol	ND	360	ug/kg
7005-72-3	4-Chlorophenyl phenyl ether	ND	360	ug/kg
218-01-9	Chrysene	ND	360	ug/kg
53-70-3	Dibenz[a,h]anthracene	ND	360	ug/kg
84-74-2	Di-n-butyl phthalate	ND	360	ug/kg
117-84-0	Di-n-octyl phthalate	ND	360	ug/kg
132-64-9	Dibenzofuran	ND	720	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	360	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	360	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	360	ug/kg
91-94-1	3,3-Dichlorobenzidine	ND	360	ug/kg
120-83-2	2,4-Dichlorophenol	ND	360	ug/kg
84-66-2	Diethyl phthalate	ND	360	ug/kg
131-11-3	Dimethyl phthalate	ND	360	ug/kg
105-67-9	2,4-Dimethylphenol	ND	360	ug/kg
51-28-5	2,4-Dinitrophenol	ND	360	ug/kg
121-14-2	2,4-Dinitrotoluene	ND	360	ug/kg
606-20-2	2,6-Dinitrotoluene	ND	360	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 10
Sample Description: 841110628-10

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 14:30
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 11:00 By: AJM
Date Analyzed: 07/05/2011 22:30 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 7.8
Sample Weight/Volume: 30.00
Dilution Factor: 2
Extract Volume: 1
Lab Data File: L32802.D
QC Batch#: 86210

CAS No.	Parameter	Result	DL	Units
206-44-0	Fluoranthene	360	360	ug/kg
86-73-7	Fluorene	ND	360	ug/kg
118-74-1	Hexachlorobenzene	ND	360	ug/kg
87-68-3	Hexachlorobutadiene	ND	360	ug/kg
77-47-4	Hexachlorocyclopentadiene	ND	360	ug/kg
67-72-1	Hexachloroethane	ND	360	ug/kg
193-39-5	Indeno[1,2,3-cd]pyrene	ND	360	ug/kg
78-59-1	Isophorone	ND	360	ug/kg
534-52-1	2-Methyl-4,6-dinitrophenol	ND	360	ug/kg
91-57-6	2-Methylnaphthalene	ND	360	ug/kg
95-48-7	2-Methylphenol	ND	360	ug/kg
108-39-4	3- & 4-Methylphenols	ND	720	ug/kg
91-20-3	Naphthalene	ND	360	ug/kg
88-74-4	2-Nitroaniline	ND	720	ug/kg
99-09-2	3-Nitroaniline	ND	720	ug/kg
100-01-6	4-Nitroaniline	ND	720	ug/kg
98-95-3	Nitrobenzene	ND	360	ug/kg
88-75-5	2-Nitrophenol	ND	360	ug/kg
100-02-1	4-Nitrophenol	ND	360	ug/kg
621-64-7	N-Nitrosodi-n-propylamine	ND	360	ug/kg
62-75-9	N-Nitrosodimethylamine	ND	360	ug/kg
86-30-6	N-Nitrosodiphenylamine	ND	360	ug/kg
87-86-5	Pentachlorophenol	ND	360	ug/kg
85-01-8	Phenanthrene	440	360	ug/kg
108-95-2	Phenol	ND	360	ug/kg
129-00-0	Pyrene	480	360	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	360	ug/kg
95-95-4	2,4,5-Trichlorophenol	ND	360	ug/kg
88-06-2	2,4,6-Trichlorophenol	ND	360	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
2,4,6-Tribromophenol	104%	18%-118%
2-Fluorobiphenyl	91%	24%-101%
2-Fluorophenol	86%	10%-94%
4-Terphenyl-d14	137%	20%-133%
Nitrobenzene-d5	91%	16%-98%
Phenol-d6	86%	15%-102%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 10
Sample Description: 841110628-10

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 14:30
Date Received: 06/29/2011 16:10
Date Extracted: 07/05/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 10:34 By: MRB
Preparation Method: 8100
Analytical Method: 8100

Matrix: Solid
Percent Moisture: 7.8
Sample Weight/Volume: 10.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: 6070647.D
QC Batch#: 86265

CAS No.	Parameter	Result	DL	Units
	C6-C12 Light Petroleum Distillate	ND	22	mg/kg
	C10-C28 Medium Petroleum Distillate	ND	22	mg/kg
	C16-C36 Heavy Petroleum Distillate	260	22	mg/kg
	Total PHC	260	22	mg/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 10
Sample Description: 841110628-10

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 14:30
Date Received: 06/29/2011 16:10
Date Extracted: 07/07/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 21:23 By: MRB
Preparation Method: 3500
Analytical Method: 8082

Matrix: Solid
Percent Moisture: 7.8
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 8070711.D
QC Batch#: 86262

CAS No.	Parameter	Result	DL	Units
12674-11-2	Aroclor 1016	ND	14	ug/kg
11104-28-2	Aroclor 1221	ND	14	ug/kg
11141-16-5	Aroclor 1232	ND	14	ug/kg
53469-21-9	Aroclor 1242	ND	14	ug/kg
12672-29-6	Aroclor 1248	ND	14	ug/kg
11097-69-1	Aroclor 1254	ND	14	ug/kg
11096-82-5	Aroclor 1260	ND	14	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	64%	10%-103%
Decachlorobiphenyl	64%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 10
Sample Description: 841110628-10

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 14:30
Date Received: 06/29/2011 16:10
Date Analyzed: 06/30/2011 15:52 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 7.8
Dilution Factor: 1
Lab Data File: J46007.D
QC Batch#: 86074

CAS No.	Parameter	Result	DL	Units
67-64-1	Acetone	ND	9.6	ug/kg
107-13-1	Acrylonitrile	ND	4.8	ug/kg
71-43-2	Benzene	ND	4.8	ug/kg
108-86-1	Bromobenzene	ND	4.8	ug/kg
74-97-5	Bromochloromethane	ND	4.8	ug/kg
75-27-4	Bromodichloromethane	ND	4.8	ug/kg
75-25-2	Bromoform	ND	4.8	ug/kg
74-83-9	Bromomethane	ND	4.8	ug/kg
78-93-3	2-Butanone (MEK)	ND	9.6	ug/kg
104-51-8	n-Butylbenzene	ND	4.8	ug/kg
135-98-8	sec-Butylbenzene	ND	4.8	ug/kg
98-06-6	tert-Butylbenzene	ND	4.8	ug/kg
75-15-0	Carbon disulfide	ND	4.8	ug/kg
56-23-5	Carbon tetrachloride	ND	4.8	ug/kg
108-90-7	Chlorobenzene	ND	4.8	ug/kg
75-00-3	Chloroethane	ND	4.8	ug/kg
67-66-3	Chloroform	ND	4.8	ug/kg
74-87-3	Chloromethane	ND	4.8	ug/kg
95-49-8	2-Chlorotoluene	ND	4.8	ug/kg
106-43-4	4-Chlorotoluene	ND	4.8	ug/kg
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	4.8	ug/kg
124-48-1	Dibromochloromethane	ND	4.8	ug/kg
106-93-4	1,2-Dibromoethane (EDB)	ND	4.8	ug/kg
74-95-3	Dibromomethane	ND	4.8	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	4.8	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	4.8	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	4.8	ug/kg
75-71-8	Dichlorodifluoromethane	ND	4.8	ug/kg
75-34-3	1,1-Dichloroethane	ND	4.8	ug/kg
107-06-2	1,2-Dichloroethane	ND	4.8	ug/kg
75-35-4	1,1-Dichloroethene	ND	4.8	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	4.8	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	4.8	ug/kg
78-87-5	1,2-Dichloropropane	ND	4.8	ug/kg
142-28-9	1,3-Dichloropropane	ND	4.8	ug/kg
594-20-7	2,2-Dichloropropane	ND	4.8	ug/kg
563-58-6	1,1-Dichloropropene	ND	4.8	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	4.8	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	4.8	ug/kg
60-29-7	Diethyl ether	ND	4.8	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 10
Sample Description: 841110628-10

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 14:30
Date Received: 06/29/2011 16:10
Date Analyzed: 06/30/2011 15:52 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 7.8
Dilution Factor: 1
Lab Data File: J46007.D
QC Batch#: 86074

CAS No.	Parameter	Result	DL	Units
123-91-1	1,4-Dioxane	ND	19	ug/kg
100-41-4	Ethylbenzene	ND	4.8	ug/kg
87-68-3	Hexachlorobutadiene	ND	4.8	ug/kg
591-78-6	2-Hexanone	ND	9.6	ug/kg
98-82-8	Isopropylbenzene	ND	4.8	ug/kg
99-87-6	4-Isopropyltoluene	ND	4.8	ug/kg
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	4.8	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	9.6	ug/kg
75-09-2	Methylene chloride	ND	4.8	ug/kg
91-20-3	Naphthalene	ND	4.8	ug/kg
103-65-1	n-Propylbenzene	ND	4.8	ug/kg
100-42-5	Styrene	ND	4.8	ug/kg
109-99-9	Tetrahydrofuran	ND	4.8	ug/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	4.8	ug/kg
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4.8	ug/kg
96-18-4	1,2,3-Trichloropropane	ND	4.8	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.8	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.8	ug/kg
127-18-4	Tetrachloroethene (PCE)	ND	4.8	ug/kg
108-88-3	Toluene	ND	4.8	ug/kg
87-61-6	1,2,3-Trichlorobenzene	ND	4.8	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	4.8	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	4.8	ug/kg
79-01-6	Trichloroethene (TCE)	ND	4.8	ug/kg
75-69-4	Trichlorofluoromethane	ND	4.8	ug/kg
95-63-6	1,2,4-Trimethylbenzene	ND	4.8	ug/kg
108-67-8	1,3,5-Trimethylbenzene	ND	4.8	ug/kg
75-01-4	Vinyl chloride	ND	4.8	ug/kg
95-47-6	o-Xylene	ND	4.8	ug/kg
108-38-3	m,p-Xylenes	ND	9.6	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
1,2-Dichloroethane-d4	113%	82%-120%
Bromofluorobenzene	105%	70%-122%
Toluene-d8	102%	77%-126%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 11
Sample Description: 841110628-11

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 14:50
Date Received: 06/29/2011 16:10
Date Extracted: 07/06/2011 09:00 By: DPR
Date Analyzed: 07/08/2011 19:13 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 4.9
Sample Weight/Volume: 30.00
Dilution Factor: 2
Extract Volume: 1
Lab Data File: L32850.D
QC Batch#: 86268

CAS No.	Parameter	Result	DL	Units
103-33-3	Azobenzene	ND	350	ug/kg
83-32-9	Acenaphthene	ND	350	ug/kg
208-96-8	Acenaphthylene	ND	350	ug/kg
62-53-3	Aniline	ND	700	ug/kg
120-12-7	Anthracene	ND	350	ug/kg
92-52-4	Biphenyl	ND	350	ug/kg
56-55-3	Benzo[a]anthracene	ND	350	ug/kg
50-32-8	Benzo[a]pyrene	ND	350	ug/kg
205-99-2	Benzo[b]fluoranthene	ND	350	ug/kg
191-24-2	Benzo[g,h,i]perylene	ND	350	ug/kg
207-08-9	Benzo[k]fluoranthene	ND	350	ug/kg
65-85-0	Benzoic acid	ND	1800	ug/kg
100-51-6	Benzyl alcohol	ND	700	ug/kg
85-68-7	Benzyl butyl phthalate	ND	350	ug/kg
111-91-1	Bis(2-chloroethoxy)methane	ND	350	ug/kg
111-44-4	Bis(2-chloroethyl)ether	ND	350	ug/kg
108-60-1	Bis(2-chloroisopropyl)ether	ND	700	ug/kg
117-81-7	Bis(2-ethylhexyl)phthalate	ND	350	ug/kg
101-55-3	4-Bromophenyl phenyl ether	ND	350	ug/kg
59-50-7	4-Chloro-3-methylphenol	ND	350	ug/kg
106-47-8	4-Chloroaniline	ND	700	ug/kg
91-58-7	2-Chloronaphthalene	ND	350	ug/kg
95-57-8	2-Chlorophenol	ND	350	ug/kg
7005-72-3	4-Chlorophenyl phenyl ether	ND	350	ug/kg
218-01-9	Chrysene	ND	350	ug/kg
53-70-3	Dibenz[a,h]anthracene	ND	350	ug/kg
84-74-2	Di-n-butyl phthalate	ND	350	ug/kg
117-84-0	Di-n-octyl phthalate	ND	350	ug/kg
132-64-9	Dibenzofuran	ND	700	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	350	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	350	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	350	ug/kg
91-94-1	3,3-Dichlorobenzidine	ND	350	ug/kg
120-83-2	2,4-Dichlorophenol	ND	350	ug/kg
84-66-2	Diethyl phthalate	ND	350	ug/kg
131-11-3	Dimethyl phthalate	ND	350	ug/kg
105-67-9	2,4-Dimethylphenol	ND	350	ug/kg
51-28-5	2,4-Dinitrophenol	ND	350	ug/kg
121-14-2	2,4-Dinitrotoluene	ND	350	ug/kg
606-20-2	2,6-Dinitrotoluene	ND	350	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 11
Sample Description: 841110628-11

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 14:50
Date Received: 06/29/2011 16:10
Date Extracted: 07/06/2011 09:00 By: DPR
Date Analyzed: 07/08/2011 19:13 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 4.9
Sample Weight/Volume: 30.00
Dilution Factor: 2
Extract Volume: 1
Lab Data File: L32850.D
QC Batch#: 86268

CAS No.	Parameter	Result	DL	Units
206-44-0	Fluoranthene	ND	350	ug/kg
86-73-7	Fluorene	ND	350	ug/kg
118-74-1	Hexachlorobenzene	ND	350	ug/kg
87-68-3	Hexachlorobutadiene	ND	350	ug/kg
77-47-4	Hexachlorocyclopentadiene	ND	350	ug/kg
67-72-1	Hexachloroethane	ND	350	ug/kg
193-39-5	Indeno[1,2,3-cd]pyrene	ND	350	ug/kg
78-59-1	Isophorone	ND	350	ug/kg
534-52-1	2-Methyl-4,6-dinitrophenol	ND	350	ug/kg
91-57-6	2-Methylnaphthalene	ND	350	ug/kg
95-48-7	2-Methylphenol	ND	350	ug/kg
108-39-4	3- & 4-Methylphenols	ND	700	ug/kg
91-20-3	Naphthalene	ND	350	ug/kg
88-74-4	2-Nitroaniline	ND	700	ug/kg
99-09-2	3-Nitroaniline	ND	700	ug/kg
100-01-6	4-Nitroaniline	ND	700	ug/kg
98-95-3	Nitrobenzene	ND	350	ug/kg
88-75-5	2-Nitrophenol	ND	350	ug/kg
100-02-1	4-Nitrophenol	ND	350	ug/kg
621-64-7	N-Nitrosodi-n-propylamine	ND	350	ug/kg
62-75-9	N-Nitrosodimethylamine	ND	350	ug/kg
86-30-6	N-Nitrosodiphenylamine	ND	350	ug/kg
87-86-5	Pentachlorophenol	ND	350	ug/kg
85-01-8	Phenanthrene	ND	350	ug/kg
108-95-2	Phenol	ND	350	ug/kg
129-00-0	Pyrene	ND	350	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	350	ug/kg
95-95-4	2,4,5-Trichlorophenol	ND	350	ug/kg
88-06-2	2,4,6-Trichlorophenol	ND	350	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
2,4,6-Tribromophenol	84%	18%-118%
2-Fluorobiphenyl	70%	24%-101%
2-Fluorophenol	60%	10%-94%
4-Terphenyl-d14	110%	20%-133%
Nitrobenzene-d5	64%	16%-98%
Phenol-d6	65%	15%-102%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 11
Sample Description: 841110628-11

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 14:50
Date Received: 06/29/2011 16:10
Date Extracted: 07/05/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 07:46 By: MRB
Preparation Method: 8100
Analytical Method: 8100

Matrix: Solid
Percent Moisture: 4.9
Sample Weight/Volume: 10.19
Dilution Factor: 1
Extract Volume: 1
Lab Data File: 6070642.D
QC Batch#: 86265

CAS No.	Parameter	Result	DL	Units
	C6-C12 Light Petroleum Distillate	ND	21	mg/kg
	C10-C28 Medium Petroleum Distillate	ND	21	mg/kg
	C16-C36 Heavy Petroleum Distillate	30	21	mg/kg
	Total PHC	30	21	mg/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 11
Sample Description: 841110628-11

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 14:50
Date Received: 06/29/2011 16:10
Date Extracted: 07/07/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 21:42 By: MRB
Preparation Method: 3500
Analytical Method: 8082

Matrix: Solid
Percent Moisture: 4.9
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 8070712.D
QC Batch#: 86262

CAS No.	Parameter	Result	DL	Units
12674-11-2	Aroclor 1016	ND	14	ug/kg
11104-28-2	Aroclor 1221	ND	14	ug/kg
11141-16-5	Aroclor 1232	ND	14	ug/kg
53469-21-9	Aroclor 1242	ND	14	ug/kg
12672-29-6	Aroclor 1248	ND	14	ug/kg
11097-69-1	Aroclor 1254	ND	14	ug/kg
11096-82-5	Aroclor 1260	ND	14	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	79%	10%-103%
Decachlorobiphenyl	89%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 11
Sample Description: 841110628-11

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 14:50
Date Received: 06/29/2011 16:10
Date Analyzed: 06/30/2011 16:20 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 4.9
Dilution Factor: 1
Lab Data File: J46008.D
QC Batch#: 86074

CAS No.	Parameter	Result	DL	Units
67-64-1	Acetone	ND	11	ug/kg
107-13-1	Acrylonitrile	ND	5.7	ug/kg
71-43-2	Benzene	ND	5.7	ug/kg
108-86-1	Bromobenzene	ND	5.7	ug/kg
74-97-5	Bromochloromethane	ND	5.7	ug/kg
75-27-4	Bromodichloromethane	ND	5.7	ug/kg
75-25-2	Bromoform	ND	5.7	ug/kg
74-83-9	Bromomethane	ND	5.7	ug/kg
78-93-3	2-Butanone (MEK)	ND	11	ug/kg
104-51-8	n-Butylbenzene	ND	5.7	ug/kg
135-98-8	sec-Butylbenzene	ND	5.7	ug/kg
98-06-6	tert-Butylbenzene	ND	5.7	ug/kg
75-15-0	Carbon disulfide	ND	5.7	ug/kg
56-23-5	Carbon tetrachloride	ND	5.7	ug/kg
108-90-7	Chlorobenzene	ND	5.7	ug/kg
75-00-3	Chloroethane	ND	5.7	ug/kg
67-66-3	Chloroform	ND	5.7	ug/kg
74-87-3	Chloromethane	ND	5.7	ug/kg
95-49-8	2-Chlorotoluene	ND	5.7	ug/kg
106-43-4	4-Chlorotoluene	ND	5.7	ug/kg
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	5.7	ug/kg
124-48-1	Dibromochloromethane	ND	5.7	ug/kg
106-93-4	1,2-Dibromoethane (EDB)	ND	5.7	ug/kg
74-95-3	Dibromomethane	ND	5.7	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	5.7	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	5.7	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	5.7	ug/kg
75-71-8	Dichlorodifluoromethane	ND	5.7	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.7	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.7	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.7	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.7	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.7	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.7	ug/kg
142-28-9	1,3-Dichloropropane	ND	5.7	ug/kg
594-20-7	2,2-Dichloropropane	ND	5.7	ug/kg
563-58-6	1,1-Dichloropropene	ND	5.7	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.7	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.7	ug/kg
60-29-7	Diethyl ether	ND	5.7	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 11
Sample Description: 841110628-11

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 14:50
Date Received: 06/29/2011 16:10
Date Analyzed: 06/30/2011 16:20 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 4.9
Dilution Factor: 1
Lab Data File: J46008.D
QC Batch#: 86074

CAS No.	Parameter	Result	DL	Units
123-91-1	1,4-Dioxane	ND	23	ug/kg
100-41-4	Ethylbenzene	ND	5.7	ug/kg
87-68-3	Hexachlorobutadiene	ND	5.7	ug/kg
591-78-6	2-Hexanone	ND	11	ug/kg
98-82-8	Isopropylbenzene	ND	5.7	ug/kg
99-87-6	4-Isopropyltoluene	ND	5.7	ug/kg
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	5.7	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	11	ug/kg
75-09-2	Methylene chloride	ND	5.7	ug/kg
91-20-3	Naphthalene	ND	5.7	ug/kg
103-65-1	n-Propylbenzene	ND	5.7	ug/kg
100-42-5	Styrene	ND	5.7	ug/kg
109-99-9	Tetrahydrofuran	ND	5.7	ug/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.7	ug/kg
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.7	ug/kg
96-18-4	1,2,3-Trichloropropane	ND	5.7	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.7	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg
127-18-4	Tetrachloroethene (PCE)	ND	5.7	ug/kg
108-88-3	Toluene	ND	5.7	ug/kg
87-61-6	1,2,3-Trichlorobenzene	ND	5.7	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	5.7	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.7	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.7	ug/kg
79-01-6	Trichloroethene (TCE)	ND	5.7	ug/kg
75-69-4	Trichlorofluoromethane	ND	5.7	ug/kg
95-63-6	1,2,4-Trimethylbenzene	ND	5.7	ug/kg
108-67-8	1,3,5-Trimethylbenzene	ND	5.7	ug/kg
75-01-4	Vinyl chloride	ND	5.7	ug/kg
95-47-6	o-Xylene	ND	5.7	ug/kg
108-38-3	m,p-Xylenes	ND	11	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
1,2-Dichloroethane-d4	112%	82%-120%
Bromofluorobenzene	103%	70%-122%
Toluene-d8	102%	77%-126%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 12
Sample Description: 841110628-12

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:00
Date Received: 06/29/2011 16:10
Date Extracted: 07/06/2011 09:00 By: DPR
Date Analyzed: 07/08/2011 19:42 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 4.6
Sample Weight/Volume: 30.05
Dilution Factor: 2
Extract Volume: 1
Lab Data File: L32851.D
QC Batch#: 86268

CAS No.	Parameter	Result	DL	Units
103-33-3	Azobenzene	ND	350	ug/kg
83-32-9	Acenaphthene	ND	350	ug/kg
208-96-8	Acenaphthylene	ND	350	ug/kg
62-53-3	Aniline	ND	700	ug/kg
120-12-7	Anthracene	ND	350	ug/kg
92-52-4	Biphenyl	ND	350	ug/kg
56-55-3	Benzo[a]anthracene	ND	350	ug/kg
50-32-8	Benzo[a]pyrene	ND	350	ug/kg
205-99-2	Benzo[b]fluoranthene	ND	350	ug/kg
191-24-2	Benzo[g,h,i]perylene	ND	350	ug/kg
207-08-9	Benzo[k]fluoranthene	ND	350	ug/kg
65-85-0	Benzoic acid	ND	1700	ug/kg
100-51-6	Benzyl alcohol	ND	700	ug/kg
85-68-7	Benzyl butyl phthalate	ND	350	ug/kg
111-91-1	Bis(2-chloroethoxy)methane	ND	350	ug/kg
111-44-4	Bis(2-chloroethyl)ether	ND	350	ug/kg
108-60-1	Bis(2-chloroisopropyl)ether	ND	700	ug/kg
117-81-7	Bis(2-ethylhexyl)phthalate	ND	350	ug/kg
101-55-3	4-Bromophenyl phenyl ether	ND	350	ug/kg
59-50-7	4-Chloro-3-methylphenol	ND	350	ug/kg
106-47-8	4-Chloroaniline	ND	700	ug/kg
91-58-7	2-Chloronaphthalene	ND	350	ug/kg
95-57-8	2-Chlorophenol	ND	350	ug/kg
7005-72-3	4-Chlorophenyl phenyl ether	ND	350	ug/kg
218-01-9	Chrysene	ND	350	ug/kg
53-70-3	Dibenz[a,h]anthracene	ND	350	ug/kg
84-74-2	Di-n-butyl phthalate	ND	350	ug/kg
117-84-0	Di-n-octyl phthalate	ND	350	ug/kg
132-64-9	Dibenzofuran	ND	700	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	350	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	350	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	350	ug/kg
91-94-1	3,3-Dichlorobenzidine	ND	350	ug/kg
120-83-2	2,4-Dichlorophenol	ND	350	ug/kg
84-66-2	Diethyl phthalate	ND	350	ug/kg
131-11-3	Dimethyl phthalate	ND	350	ug/kg
105-67-9	2,4-Dimethylphenol	ND	350	ug/kg
51-28-5	2,4-Dinitrophenol	ND	350	ug/kg
121-14-2	2,4-Dinitrotoluene	ND	350	ug/kg
606-20-2	2,6-Dinitrotoluene	ND	350	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 12
Sample Description: 841110628-12

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:00
Date Received: 06/29/2011 16:10
Date Extracted: 07/06/2011 09:00 By: DPR
Date Analyzed: 07/08/2011 19:42 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 4.6
Sample Weight/Volume: 30.05
Dilution Factor: 2
Extract Volume: 1
Lab Data File: L32851.D
QC Batch#: 86268

CAS No.	Parameter	Result	DL	Units
206-44-0	Fluoranthene	ND	350	ug/kg
86-73-7	Fluorene	ND	350	ug/kg
118-74-1	Hexachlorobenzene	ND	350	ug/kg
87-68-3	Hexachlorobutadiene	ND	350	ug/kg
77-47-4	Hexachlorocyclopentadiene	ND	350	ug/kg
67-72-1	Hexachloroethane	ND	350	ug/kg
193-39-5	Indeno[1,2,3-cd]pyrene	ND	350	ug/kg
78-59-1	Isophorone	ND	350	ug/kg
534-52-1	2-Methyl-4,6-dinitrophenol	ND	350	ug/kg
91-57-6	2-Methylnaphthalene	ND	350	ug/kg
95-48-7	2-Methylphenol	ND	350	ug/kg
108-39-4	3- & 4-Methylphenols	ND	700	ug/kg
91-20-3	Naphthalene	ND	350	ug/kg
88-74-4	2-Nitroaniline	ND	700	ug/kg
99-09-2	3-Nitroaniline	ND	700	ug/kg
100-01-6	4-Nitroaniline	ND	700	ug/kg
98-95-3	Nitrobenzene	ND	350	ug/kg
88-75-5	2-Nitrophenol	ND	350	ug/kg
100-02-1	4-Nitrophenol	ND	350	ug/kg
621-64-7	N-Nitrosodi-n-propylamine	ND	350	ug/kg
62-75-9	N-Nitrosodimethylamine	ND	350	ug/kg
86-30-6	N-Nitrosodiphenylamine	ND	350	ug/kg
87-86-5	Pentachlorophenol	ND	350	ug/kg
85-01-8	Phenanthrene	ND	350	ug/kg
108-95-2	Phenol	ND	350	ug/kg
129-00-0	Pyrene	ND	350	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	350	ug/kg
95-95-4	2,4,5-Trichlorophenol	ND	350	ug/kg
88-06-2	2,4,6-Trichlorophenol	ND	350	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
2,4,6-Tribromophenol	38%	18%-118%
2-Fluorobiphenyl	61%	24%-101%
2-Fluorophenol	53%	10%-94%
4-Terphenyl-d14	96%	20%-133%
Nitrobenzene-d5	56%	16%-98%
Phenol-d6	58%	15%-102%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 12
Sample Description: 841110628-12

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:00
Date Received: 06/29/2011 16:10
Date Extracted: 07/05/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 08:20 By: MRB
Preparation Method: 8100
Analytical Method: 8100

Matrix: Solid
Percent Moisture: 4.6
Sample Weight/Volume: 10.01
Dilution Factor: 1
Extract Volume: 1
Lab Data File: 6070643.D
QC Batch#: 86265

CAS No.	Parameter	Result	DL	Units
	C6-C12 Light Petroleum Distillate	ND	21	mg/kg
	C10-C28 Medium Petroleum Distillate	ND	21	mg/kg
	C16-C36 Heavy Petroleum Distillate	ND	21	mg/kg
	Total PHC	ND	21	mg/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 12
Sample Description: 841110628-12

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:00
Date Received: 06/29/2011 16:10
Date Extracted: 07/07/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 22:01 By: MRB
Preparation Method: 3500
Analytical Method: 8082

Matrix: Solid
Percent Moisture: 4.6
Sample Weight/Volume: 30.10
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 8070713.D
QC Batch#: 86262

CAS No.	Parameter	Result	DL	Units
12674-11-2	Aroclor 1016	ND	14	ug/kg
11104-28-2	Aroclor 1221	ND	14	ug/kg
11141-16-5	Aroclor 1232	ND	14	ug/kg
53469-21-9	Aroclor 1242	ND	14	ug/kg
12672-29-6	Aroclor 1248	ND	14	ug/kg
11097-69-1	Aroclor 1254	ND	14	ug/kg
11096-82-5	Aroclor 1260	ND	14	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	42%	10%-103%
Decachlorobiphenyl	50%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 12
Sample Description: 841110628-12

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:00
Date Received: 06/29/2011 16:10
Date Analyzed: 07/01/2011 13:18 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 4.6
Dilution Factor: 1
Lab Data File: J46029.D
QC Batch#: 86156

CAS No.	Parameter	Result	DL	Units
67-64-1	Acetone	ND	11	ug/kg
107-13-1	Acrylonitrile	ND	5.6	ug/kg
71-43-2	Benzene	ND	5.6	ug/kg
108-86-1	Bromobenzene	ND	5.6	ug/kg
74-97-5	Bromochloromethane	ND	5.6	ug/kg
75-27-4	Bromodichloromethane	ND	5.6	ug/kg
75-25-2	Bromoform	ND	5.6	ug/kg
74-83-9	Bromomethane	ND	5.6	ug/kg
78-93-3	2-Butanone (MEK)	ND	11	ug/kg
104-51-8	n-Butylbenzene	ND	5.6	ug/kg
135-98-8	sec-Butylbenzene	ND	5.6	ug/kg
98-06-6	tert-Butylbenzene	ND	5.6	ug/kg
75-15-0	Carbon disulfide	ND	5.6	ug/kg
56-23-5	Carbon tetrachloride	ND	5.6	ug/kg
108-90-7	Chlorobenzene	ND	5.6	ug/kg
75-00-3	Chloroethane	ND	5.6	ug/kg
67-66-3	Chloroform	ND	5.6	ug/kg
74-87-3	Chloromethane	ND	5.6	ug/kg
95-49-8	2-Chlorotoluene	ND	5.6	ug/kg
106-43-4	4-Chlorotoluene	ND	5.6	ug/kg
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	5.6	ug/kg
124-48-1	Dibromochloromethane	ND	5.6	ug/kg
106-93-4	1,2-Dibromoethane (EDB)	ND	5.6	ug/kg
74-95-3	Dibromomethane	ND	5.6	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	5.6	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	5.6	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	5.6	ug/kg
75-71-8	Dichlorodifluoromethane	ND	5.6	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.6	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.6	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.6	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.6	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.6	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.6	ug/kg
142-28-9	1,3-Dichloropropane	ND	5.6	ug/kg
594-20-7	2,2-Dichloropropane	ND	5.6	ug/kg
563-58-6	1,1-Dichloropropene	ND	5.6	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	ug/kg
60-29-7	Diethyl ether	ND	5.6	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 12
Sample Description: 841110628-12

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:00
Date Received: 06/29/2011 16:10
Date Analyzed: 07/01/2011 13:18 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 4.6
Dilution Factor: 1
Lab Data File: J46029.D
QC Batch#: 86156

CAS No.	Parameter	Result	DL	Units
123-91-1	1,4-Dioxane	ND	22	ug/kg
100-41-4	Ethylbenzene	ND	5.6	ug/kg
87-68-3	Hexachlorobutadiene	ND	5.6	ug/kg
591-78-6	2-Hexanone	ND	11	ug/kg
98-82-8	Isopropylbenzene	ND	5.6	ug/kg
99-87-6	4-Isopropyltoluene	ND	5.6	ug/kg
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	5.6	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	11	ug/kg
75-09-2	Methylene chloride	ND	5.6	ug/kg
91-20-3	Naphthalene	ND	5.6	ug/kg
103-65-1	n-Propylbenzene	ND	5.6	ug/kg
100-42-5	Styrene	ND	5.6	ug/kg
109-99-9	Tetrahydrofuran	ND	5.6	ug/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.6	ug/kg
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.6	ug/kg
96-18-4	1,2,3-Trichloropropane	ND	5.6	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.6	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg
127-18-4	Tetrachloroethene (PCE)	ND	5.6	ug/kg
108-88-3	Toluene	ND	5.6	ug/kg
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.6	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.6	ug/kg
79-01-6	Trichloroethene (TCE)	ND	5.6	ug/kg
75-69-4	Trichlorofluoromethane	ND	5.6	ug/kg
95-63-6	1,2,4-Trimethylbenzene	ND	5.6	ug/kg
108-67-8	1,3,5-Trimethylbenzene	ND	5.6	ug/kg
75-01-4	Vinyl chloride	ND	5.6	ug/kg
95-47-6	o-Xylene	ND	5.6	ug/kg
108-38-3	m,p-Xylenes	ND	11	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
1,2-Dichloroethane-d4	110%	82%-120%
Bromofluorobenzene	104%	70%-122%
Toluene-d8	102%	77%-126%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 13
Sample Description: 841110628-13

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:05
Date Received: 06/29/2011 16:10
Date Extracted: 07/06/2011 09:00 By: DPR
Date Analyzed: 07/08/2011 17:18 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 4.7
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32846.D
QC Batch#: 86268

CAS No.	Parameter	Result	DL	Units
103-33-3	Azobenzene	ND	170	ug/kg
83-32-9	Acenaphthene	ND	170	ug/kg
208-96-8	Acenaphthylene	ND	170	ug/kg
62-53-3	Aniline	ND	350	ug/kg
120-12-7	Anthracene	ND	170	ug/kg
92-52-4	Biphenyl	ND	170	ug/kg
56-55-3	Benzo[a]anthracene	ND	170	ug/kg
50-32-8	Benzo[a]pyrene	ND	170	ug/kg
205-99-2	Benzo[b]fluoranthene	ND	170	ug/kg
191-24-2	Benzo[g,h,i]perylene	ND	170	ug/kg
207-08-9	Benzo[k]fluoranthene	ND	170	ug/kg
65-85-0	Benzoic acid	ND	870	ug/kg
100-51-6	Benzyl alcohol	ND	350	ug/kg
85-68-7	Benzyl butyl phthalate	ND	170	ug/kg
111-91-1	Bis(2-chloroethoxy)methane	ND	170	ug/kg
111-44-4	Bis(2-chloroethyl)ether	ND	170	ug/kg
108-60-1	Bis(2-chloroisopropyl)ether	ND	350	ug/kg
117-81-7	Bis(2-ethylhexyl)phthalate	ND	170	ug/kg
101-55-3	4-Bromophenyl phenyl ether	ND	170	ug/kg
59-50-7	4-Chloro-3-methylphenol	ND	170	ug/kg
106-47-8	4-Chloroaniline	ND	350	ug/kg
91-58-7	2-Chloronaphthalene	ND	170	ug/kg
95-57-8	2-Chlorophenol	ND	170	ug/kg
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	ug/kg
218-01-9	Chrysene	ND	170	ug/kg
53-70-3	Dibenz[a,h]anthracene	ND	170	ug/kg
84-74-2	Di-n-butyl phthalate	ND	170	ug/kg
117-84-0	Di-n-octyl phthalate	ND	170	ug/kg
132-64-9	Dibenzofuran	ND	350	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	170	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	170	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	170	ug/kg
91-94-1	3,3-Dichlorobenzidine	ND	170	ug/kg
120-83-2	2,4-Dichlorophenol	ND	170	ug/kg
84-66-2	Diethyl phthalate	ND	170	ug/kg
131-11-3	Dimethyl phthalate	ND	170	ug/kg
105-67-9	2,4-Dimethylphenol	ND	170	ug/kg
51-28-5	2,4-Dinitrophenol	ND	170	ug/kg
121-14-2	2,4-Dinitrotoluene	ND	170	ug/kg
606-20-2	2,6-Dinitrotoluene	ND	170	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 13
Sample Description: 841110628-13

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:05
Date Received: 06/29/2011 16:10
Date Extracted: 07/06/2011 09:00 By: DPR
Date Analyzed: 07/08/2011 17:18 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 4.7
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32846.D
QC Batch#: 86268

CAS No.	Parameter	Result	DL	Units
206-44-0	Fluoranthene	ND	170	ug/kg
86-73-7	Fluorene	ND	170	ug/kg
118-74-1	Hexachlorobenzene	ND	170	ug/kg
87-68-3	Hexachlorobutadiene	ND	170	ug/kg
77-47-4	Hexachlorocyclopentadiene	ND	170	ug/kg
67-72-1	Hexachloroethane	ND	170	ug/kg
193-39-5	Indeno[1,2,3-cd]pyrene	ND	170	ug/kg
78-59-1	Isophorone	ND	170	ug/kg
534-52-1	2-Methyl-4,6-dinitrophenol	ND	170	ug/kg
91-57-6	2-Methylnaphthalene	ND	170	ug/kg
95-48-7	2-Methylphenol	ND	170	ug/kg
108-39-4	3- & 4-Methylphenols	ND	350	ug/kg
91-20-3	Naphthalene	ND	170	ug/kg
88-74-4	2-Nitroaniline	ND	350	ug/kg
99-09-2	3-Nitroaniline	ND	350	ug/kg
100-01-6	4-Nitroaniline	ND	350	ug/kg
98-95-3	Nitrobenzene	ND	170	ug/kg
88-75-5	2-Nitrophenol	ND	170	ug/kg
100-02-1	4-Nitrophenol	ND	170	ug/kg
621-64-7	N-Nitrosodi-n-propylamine	ND	170	ug/kg
62-75-9	N-Nitrosodimethylamine	ND	170	ug/kg
86-30-6	N-Nitrosodiphenylamine	ND	170	ug/kg
87-86-5	Pentachlorophenol	ND	170	ug/kg
85-01-8	Phenanthrene	ND	170	ug/kg
108-95-2	Phenol	ND	170	ug/kg
129-00-0	Pyrene	ND	170	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	170	ug/kg
95-95-4	2,4,5-Trichlorophenol	ND	170	ug/kg
88-06-2	2,4,6-Trichlorophenol	ND	170	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
2,4,6-Tribromophenol	63%	18%-118%
2-Fluorobiphenyl	56%	24%-101%
2-Fluorophenol	50%	10%-94%
4-Terphenyl-d14	78%	20%-133%
Nitrobenzene-d5	54%	16%-98%
Phenol-d6	50%	15%-102%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 13
Sample Description: 841110628-13

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:05
Date Received: 06/29/2011 16:10
Date Extracted: 07/05/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 08:53 By: MRB
Preparation Method: 8100
Analytical Method: 8100

Matrix: Solid
Percent Moisture: 4.7
Sample Weight/Volume: 10.10
Dilution Factor: 1
Extract Volume: 1
Lab Data File: 6070644.D
QC Batch#: 86265

CAS No.	Parameter	Result	DL	Units
	C6-C12 Light Petroleum Distillate	ND	21	mg/kg
	C10-C28 Medium Petroleum Distillate	ND	21	mg/kg
	C16-C36 Heavy Petroleum Distillate	ND	21	mg/kg
	Total PHC	ND	21	mg/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 13
Sample Description: 841110628-13

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:05
Date Received: 06/29/2011 16:10
Date Extracted: 07/07/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 22:20 By: MRB
Preparation Method: 3500
Analytical Method: 8082

Matrix: Solid
Percent Moisture: 4.7
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 8070714.D
QC Batch#: 86262

CAS No.	Parameter	Result	DL	Units
12674-11-2	Aroclor 1016	ND	14	ug/kg
11104-28-2	Aroclor 1221	ND	14	ug/kg
11141-16-5	Aroclor 1232	ND	14	ug/kg
53469-21-9	Aroclor 1242	ND	14	ug/kg
12672-29-6	Aroclor 1248	ND	14	ug/kg
11097-69-1	Aroclor 1254	ND	14	ug/kg
11096-82-5	Aroclor 1260	ND	14	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	82%	10%-103%
Decachlorobiphenyl	83%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 13
Sample Description: 841110628-13

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:05
Date Received: 06/29/2011 16:10
Date Analyzed: 07/01/2011 13:45 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 4.7
Dilution Factor: 1
Lab Data File: J46030.D
QC Batch#: 86156

CAS No.	Parameter	Result	DL	Units
67-64-1	Acetone	ND	12	ug/kg
107-13-1	Acrylonitrile	ND	6.0	ug/kg
71-43-2	Benzene	ND	6.0	ug/kg
108-86-1	Bromobenzene	ND	6.0	ug/kg
74-97-5	Bromochloromethane	ND	6.0	ug/kg
75-27-4	Bromodichloromethane	ND	6.0	ug/kg
75-25-2	Bromoform	ND	6.0	ug/kg
74-83-9	Bromomethane	ND	6.0	ug/kg
78-93-3	2-Butanone (MEK)	ND	12	ug/kg
104-51-8	n-Butylbenzene	ND	6.0	ug/kg
135-98-8	sec-Butylbenzene	ND	6.0	ug/kg
98-06-6	tert-Butylbenzene	ND	6.0	ug/kg
75-15-0	Carbon disulfide	ND	6.0	ug/kg
56-23-5	Carbon tetrachloride	ND	6.0	ug/kg
108-90-7	Chlorobenzene	ND	6.0	ug/kg
75-00-3	Chloroethane	ND	6.0	ug/kg
67-66-3	Chloroform	ND	6.0	ug/kg
74-87-3	Chloromethane	ND	6.0	ug/kg
95-49-8	2-Chlorotoluene	ND	6.0	ug/kg
106-43-4	4-Chlorotoluene	ND	6.0	ug/kg
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	6.0	ug/kg
124-48-1	Dibromochloromethane	ND	6.0	ug/kg
106-93-4	1,2-Dibromoethane (EDB)	ND	6.0	ug/kg
74-95-3	Dibromomethane	ND	6.0	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	6.0	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	6.0	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	6.0	ug/kg
75-71-8	Dichlorodifluoromethane	ND	6.0	ug/kg
75-34-3	1,1-Dichloroethane	ND	6.0	ug/kg
107-06-2	1,2-Dichloroethane	ND	6.0	ug/kg
75-35-4	1,1-Dichloroethene	ND	6.0	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	6.0	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	6.0	ug/kg
78-87-5	1,2-Dichloropropane	ND	6.0	ug/kg
142-28-9	1,3-Dichloropropane	ND	6.0	ug/kg
594-20-7	2,2-Dichloropropane	ND	6.0	ug/kg
563-58-6	1,1-Dichloropropene	ND	6.0	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	6.0	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	6.0	ug/kg
60-29-7	Diethyl ether	ND	6.0	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 13
Sample Description: 841110628-13

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:05
Date Received: 06/29/2011 16:10
Date Analyzed: 07/01/2011 13:45 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 4.7
Dilution Factor: 1
Lab Data File: J46030.D
QC Batch#: 86156

CAS No.	Parameter	Result	DL	Units
123-91-1	1,4-Dioxane	ND	24	ug/kg
100-41-4	Ethylbenzene	ND	6.0	ug/kg
87-68-3	Hexachlorobutadiene	ND	6.0	ug/kg
591-78-6	2-Hexanone	ND	12	ug/kg
98-82-8	Isopropylbenzene	ND	6.0	ug/kg
99-87-6	4-Isopropyltoluene	ND	6.0	ug/kg
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	6.0	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	12	ug/kg
75-09-2	Methylene chloride	ND	6.0	ug/kg
91-20-3	Naphthalene	ND	6.0	ug/kg
103-65-1	n-Propylbenzene	ND	6.0	ug/kg
100-42-5	Styrene	ND	6.0	ug/kg
109-99-9	Tetrahydrofuran	ND	6.0	ug/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	6.0	ug/kg
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	6.0	ug/kg
96-18-4	1,2,3-Trichloropropane	ND	6.0	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.0	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg
127-18-4	Tetrachloroethene (PCE)	ND	6.0	ug/kg
108-88-3	Toluene	ND	6.0	ug/kg
87-61-6	1,2,3-Trichlorobenzene	ND	6.0	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	6.0	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	6.0	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	6.0	ug/kg
79-01-6	Trichloroethene (TCE)	ND	6.0	ug/kg
75-69-4	Trichlorofluoromethane	ND	6.0	ug/kg
95-63-6	1,2,4-Trimethylbenzene	ND	6.0	ug/kg
108-67-8	1,3,5-Trimethylbenzene	ND	6.0	ug/kg
75-01-4	Vinyl chloride	ND	6.0	ug/kg
95-47-6	o-Xylene	ND	6.0	ug/kg
108-38-3	m,p-Xylenes	ND	12	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
1,2-Dichloroethane-d4	111%	82%-120%
Bromofluorobenzene	105%	70%-122%
Toluene-d8	102%	77%-126%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 14
Sample Description: 841110628-14

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:20
Date Received: 06/29/2011 16:10
Date Extracted: 07/06/2011 09:00 By: DPR
Date Analyzed: 07/08/2011 18:15 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 6.1
Sample Weight/Volume: 30.15
Dilution Factor: 2
Extract Volume: 1
Lab Data File: L32848.D
QC Batch#: 86268

CAS No.	Parameter	Result	DL	Units
103-33-3	Azobenzene	ND	350	ug/kg
83-32-9	Acenaphthene	ND	350	ug/kg
208-96-8	Acenaphthylene	ND	350	ug/kg
62-53-3	Aniline	ND	710	ug/kg
120-12-7	Anthracene	ND	350	ug/kg
92-52-4	Biphenyl	ND	350	ug/kg
56-55-3	Benzo[a]anthracene	ND	350	ug/kg
50-32-8	Benzo[a]pyrene	ND	350	ug/kg
205-99-2	Benzo[b]fluoranthene	ND	350	ug/kg
191-24-2	Benzo[g,h,i]perylene	ND	350	ug/kg
207-08-9	Benzo[k]fluoranthene	ND	350	ug/kg
65-85-0	Benzoic acid	ND	1800	ug/kg
100-51-6	Benzyl alcohol	ND	710	ug/kg
85-68-7	Benzyl butyl phthalate	ND	350	ug/kg
111-91-1	Bis(2-chloroethoxy)methane	ND	350	ug/kg
111-44-4	Bis(2-chloroethyl)ether	ND	350	ug/kg
108-60-1	Bis(2-chloroisopropyl)ether	ND	710	ug/kg
117-81-7	Bis(2-ethylhexyl)phthalate	ND	350	ug/kg
101-55-3	4-Bromophenyl phenyl ether	ND	350	ug/kg
59-50-7	4-Chloro-3-methylphenol	ND	350	ug/kg
106-47-8	4-Chloroaniline	ND	710	ug/kg
91-58-7	2-Chloronaphthalene	ND	350	ug/kg
95-57-8	2-Chlorophenol	ND	350	ug/kg
7005-72-3	4-Chlorophenyl phenyl ether	ND	350	ug/kg
218-01-9	Chrysene	ND	350	ug/kg
53-70-3	Dibenz[a,h]anthracene	ND	350	ug/kg
84-74-2	Di-n-butyl phthalate	ND	350	ug/kg
117-84-0	Di-n-octyl phthalate	ND	350	ug/kg
132-64-9	Dibenzofuran	ND	710	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	350	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	350	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	350	ug/kg
91-94-1	3,3-Dichlorobenzidine	ND	350	ug/kg
120-83-2	2,4-Dichlorophenol	ND	350	ug/kg
84-66-2	Diethyl phthalate	ND	350	ug/kg
131-11-3	Dimethyl phthalate	ND	350	ug/kg
105-67-9	2,4-Dimethylphenol	ND	350	ug/kg
51-28-5	2,4-Dinitrophenol	ND	350	ug/kg
121-14-2	2,4-Dinitrotoluene	ND	350	ug/kg
606-20-2	2,6-Dinitrotoluene	ND	350	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 14
Sample Description: 841110628-14

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:20
Date Received: 06/29/2011 16:10
Date Extracted: 07/06/2011 09:00 By: DPR
Date Analyzed: 07/08/2011 18:15 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 6.1
Sample Weight/Volume: 30.15
Dilution Factor: 2
Extract Volume: 1
Lab Data File: L32848.D
QC Batch#: 86268

CAS No.	Parameter	Result	DL	Units
206-44-0	Fluoranthene	400	350	ug/kg
86-73-7	Fluorene	ND	350	ug/kg
118-74-1	Hexachlorobenzene	ND	350	ug/kg
87-68-3	Hexachlorobutadiene	ND	350	ug/kg
77-47-4	Hexachlorocyclopentadiene	ND	350	ug/kg
67-72-1	Hexachloroethane	ND	350	ug/kg
193-39-5	Indeno[1,2,3-cd]pyrene	ND	350	ug/kg
78-59-1	Isophorone	ND	350	ug/kg
534-52-1	2-Methyl-4,6-dinitrophenol	ND	350	ug/kg
91-57-6	2-Methylnaphthalene	ND	350	ug/kg
95-48-7	2-Methylphenol	ND	350	ug/kg
108-39-4	3- & 4-Methylphenols	ND	710	ug/kg
91-20-3	Naphthalene	ND	350	ug/kg
88-74-4	2-Nitroaniline	ND	710	ug/kg
99-09-2	3-Nitroaniline	ND	710	ug/kg
100-01-6	4-Nitroaniline	ND	710	ug/kg
98-95-3	Nitrobenzene	ND	350	ug/kg
88-75-5	2-Nitrophenol	ND	350	ug/kg
100-02-1	4-Nitrophenol	ND	350	ug/kg
621-64-7	N-Nitrosodi-n-propylamine	ND	350	ug/kg
62-75-9	N-Nitrosodimethylamine	ND	350	ug/kg
86-30-6	N-Nitrosodiphenylamine	ND	350	ug/kg
87-86-5	Pentachlorophenol	ND	350	ug/kg
85-01-8	Phenanthrene	ND	350	ug/kg
108-95-2	Phenol	ND	350	ug/kg
129-00-0	Pyrene	ND	350	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	350	ug/kg
95-95-4	2,4,5-Trichlorophenol	ND	350	ug/kg
88-06-2	2,4,6-Trichlorophenol	ND	350	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
2,4,6-Tribromophenol	90%	18%-118%
2-Fluorobiphenyl	75%	24%-101%
2-Fluorophenol	60%	10%-94%
4-Terphenyl-d14	96%	20%-133%
Nitrobenzene-d5	60%	16%-98%
Phenol-d6	67%	15%-102%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 14
Sample Description: 841110628-14

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:20
Date Received: 06/29/2011 16:10
Date Extracted: 07/05/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 09:27 By: MRB
Preparation Method: 8100
Analytical Method: 8100

Matrix: Solid
Percent Moisture: 6.1
Sample Weight/Volume: 10.10
Dilution Factor: 1
Extract Volume: 1
Lab Data File: 6070645.D
QC Batch#: 86265

CAS No.	Parameter	Result	DL	Units
	C6-C12 Light Petroleum Distillate	ND	21	mg/kg
	C10-C28 Medium Petroleum Distillate	ND	21	mg/kg
	C16-C36 Heavy Petroleum Distillate	23	21	mg/kg
	Total PHC	23	21	mg/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 14
Sample Description: 841110628-14

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:20
Date Received: 06/29/2011 16:10
Date Extracted: 07/07/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 22:39 By: MRB
Preparation Method: 3500
Analytical Method: 8082

Matrix: Solid
Percent Moisture: 6.1
Sample Weight/Volume: 30.00
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 8070715.D
QC Batch#: 86262

CAS No.	Parameter	Result	DL	Units
12674-11-2	Aroclor 1016	ND	14	ug/kg
11104-28-2	Aroclor 1221	ND	14	ug/kg
11141-16-5	Aroclor 1232	ND	14	ug/kg
53469-21-9	Aroclor 1242	ND	14	ug/kg
12672-29-6	Aroclor 1248	ND	14	ug/kg
11097-69-1	Aroclor 1254	ND	14	ug/kg
11096-82-5	Aroclor 1260	ND	14	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	71%	10%-103%
Decachlorobiphenyl	101%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 14
Sample Description: 841110628-14

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:20
Date Received: 06/29/2011 16:10
Date Analyzed: 07/01/2011 14:12 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 6.1
Dilution Factor: 1
Lab Data File: J46031.D
QC Batch#: 86156

CAS No.	Parameter	Result	DL	Units
67-64-1	Acetone	ND	10	ug/kg
107-13-1	Acrylonitrile	ND	5.1	ug/kg
71-43-2	Benzene	ND	5.1	ug/kg
108-86-1	Bromobenzene	ND	5.1	ug/kg
74-97-5	Bromochloromethane	ND	5.1	ug/kg
75-27-4	Bromodichloromethane	ND	5.1	ug/kg
75-25-2	Bromoform	ND	5.1	ug/kg
74-83-9	Bromomethane	ND	5.1	ug/kg
78-93-3	2-Butanone (MEK)	ND	10	ug/kg
104-51-8	n-Butylbenzene	ND	5.1	ug/kg
135-98-8	sec-Butylbenzene	ND	5.1	ug/kg
98-06-6	tert-Butylbenzene	ND	5.1	ug/kg
75-15-0	Carbon disulfide	ND	5.1	ug/kg
56-23-5	Carbon tetrachloride	ND	5.1	ug/kg
108-90-7	Chlorobenzene	ND	5.1	ug/kg
75-00-3	Chloroethane	ND	5.1	ug/kg
67-66-3	Chloroform	ND	5.1	ug/kg
74-87-3	Chloromethane	ND	5.1	ug/kg
95-49-8	2-Chlorotoluene	ND	5.1	ug/kg
106-43-4	4-Chlorotoluene	ND	5.1	ug/kg
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	5.1	ug/kg
124-48-1	Dibromochloromethane	ND	5.1	ug/kg
106-93-4	1,2-Dibromoethane (EDB)	ND	5.1	ug/kg
74-95-3	Dibromomethane	ND	5.1	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	5.1	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	5.1	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	5.1	ug/kg
75-71-8	Dichlorodifluoromethane	ND	5.1	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.1	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.1	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.1	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.1	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.1	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.1	ug/kg
142-28-9	1,3-Dichloropropane	ND	5.1	ug/kg
594-20-7	2,2-Dichloropropane	ND	5.1	ug/kg
563-58-6	1,1-Dichloropropene	ND	5.1	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.1	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.1	ug/kg
60-29-7	Diethyl ether	ND	5.1	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 14
Sample Description: 841110628-14

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:20
Date Received: 06/29/2011 16:10
Date Analyzed: 07/01/2011 14:12 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 6.1
Dilution Factor: 1
Lab Data File: J46031.D
QC Batch#: 86156

CAS No.	Parameter	Result	DL	Units
123-91-1	1,4-Dioxane	ND	20	ug/kg
100-41-4	Ethylbenzene	ND	5.1	ug/kg
87-68-3	Hexachlorobutadiene	ND	5.1	ug/kg
591-78-6	2-Hexanone	ND	10	ug/kg
98-82-8	Isopropylbenzene	ND	5.1	ug/kg
99-87-6	4-Isopropyltoluene	ND	5.1	ug/kg
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	5.1	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	ug/kg
75-09-2	Methylene chloride	ND	5.1	ug/kg
91-20-3	Naphthalene	ND	5.1	ug/kg
103-65-1	n-Propylbenzene	ND	5.1	ug/kg
100-42-5	Styrene	ND	5.1	ug/kg
109-99-9	Tetrahydrofuran	ND	5.1	ug/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.1	ug/kg
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.1	ug/kg
96-18-4	1,2,3-Trichloropropane	ND	5.1	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.1	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg
127-18-4	Tetrachloroethene (PCE)	ND	5.1	ug/kg
108-88-3	Toluene	ND	5.1	ug/kg
87-61-6	1,2,3-Trichlorobenzene	ND	5.1	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.1	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.1	ug/kg
79-01-6	Trichloroethene (TCE)	ND	5.1	ug/kg
75-69-4	Trichlorofluoromethane	ND	5.1	ug/kg
95-63-6	1,2,4-Trimethylbenzene	ND	5.1	ug/kg
108-67-8	1,3,5-Trimethylbenzene	ND	5.1	ug/kg
75-01-4	Vinyl chloride	ND	5.1	ug/kg
95-47-6	o-Xylene	ND	5.1	ug/kg
108-38-3	m,p-Xylenes	ND	10	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
1,2-Dichloroethane-d4	111%	82%-120%
Bromofluorobenzene	105%	70%-122%
Toluene-d8	104%	77%-126%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 15
Sample Description: 841110628-15

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:30
Date Received: 06/29/2011 16:10
Date Extracted: 07/06/2011 09:00 By: DPR
Date Analyzed: 07/08/2011 17:46 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 5.2
Sample Weight/Volume: 30.05
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32847.D
QC Batch#: 86268

CAS No.	Parameter	Result	DL	Units
103-33-3	Azobenzene	ND	180	ug/kg
83-32-9	Acenaphthene	ND	180	ug/kg
208-96-8	Acenaphthylene	ND	180	ug/kg
62-53-3	Aniline	ND	350	ug/kg
120-12-7	Anthracene	ND	180	ug/kg
92-52-4	Biphenyl	ND	180	ug/kg
56-55-3	Benzo[a]anthracene	ND	180	ug/kg
50-32-8	Benzo[a]pyrene	ND	180	ug/kg
205-99-2	Benzo[b]fluoranthene	ND	180	ug/kg
191-24-2	Benzo[g,h,i]perylene	ND	180	ug/kg
207-08-9	Benzo[k]fluoranthene	ND	180	ug/kg
65-85-0	Benzoic acid	ND	880	ug/kg
100-51-6	Benzyl alcohol	ND	350	ug/kg
85-68-7	Benzyl butyl phthalate	ND	180	ug/kg
111-91-1	Bis(2-chloroethoxy)methane	ND	180	ug/kg
111-44-4	Bis(2-chloroethyl)ether	ND	180	ug/kg
108-60-1	Bis(2-chloroisopropyl)ether	ND	350	ug/kg
117-81-7	Bis(2-ethylhexyl)phthalate	ND	180	ug/kg
101-55-3	4-Bromophenyl phenyl ether	ND	180	ug/kg
59-50-7	4-Chloro-3-methylphenol	ND	180	ug/kg
106-47-8	4-Chloroaniline	ND	350	ug/kg
91-58-7	2-Chloronaphthalene	ND	180	ug/kg
95-57-8	2-Chlorophenol	ND	180	ug/kg
7005-72-3	4-Chlorophenyl phenyl ether	ND	180	ug/kg
218-01-9	Chrysene	ND	180	ug/kg
53-70-3	Dibenz[a,h]anthracene	ND	180	ug/kg
84-74-2	Di-n-butyl phthalate	ND	180	ug/kg
117-84-0	Di-n-octyl phthalate	ND	180	ug/kg
132-64-9	Dibenzofuran	ND	350	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	180	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	180	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	180	ug/kg
91-94-1	3,3-Dichlorobenzidine	ND	180	ug/kg
120-83-2	2,4-Dichlorophenol	ND	180	ug/kg
84-66-2	Diethyl phthalate	ND	180	ug/kg
131-11-3	Dimethyl phthalate	ND	180	ug/kg
105-67-9	2,4-Dimethylphenol	ND	180	ug/kg
51-28-5	2,4-Dinitrophenol	ND	180	ug/kg
121-14-2	2,4-Dinitrotoluene	ND	180	ug/kg
606-20-2	2,6-Dinitrotoluene	ND	180	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 15
Sample Description: 841110628-15

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:30
Date Received: 06/29/2011 16:10
Date Extracted: 07/06/2011 09:00 By: DPR
Date Analyzed: 07/08/2011 17:46 By: GMP
Preparation Method: 3500
Analytical Method: 8270C

Matrix: Solid
Percent Moisture: 5.2
Sample Weight/Volume: 30.05
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L32847.D
QC Batch#: 86268

CAS No.	Parameter	Result	DL	Units
206-44-0	Fluoranthene	ND	180	ug/kg
86-73-7	Fluorene	ND	180	ug/kg
118-74-1	Hexachlorobenzene	ND	180	ug/kg
87-68-3	Hexachlorobutadiene	ND	180	ug/kg
77-47-4	Hexachlorocyclopentadiene	ND	180	ug/kg
67-72-1	Hexachloroethane	ND	180	ug/kg
193-39-5	Indeno[1,2,3-cd]pyrene	ND	180	ug/kg
78-59-1	Isophorone	ND	180	ug/kg
534-52-1	2-Methyl-4,6-dinitrophenol	ND	180	ug/kg
91-57-6	2-Methylnaphthalene	ND	180	ug/kg
95-48-7	2-Methylphenol	ND	180	ug/kg
108-39-4	3- & 4-Methylphenols	ND	350	ug/kg
91-20-3	Naphthalene	ND	180	ug/kg
88-74-4	2-Nitroaniline	ND	350	ug/kg
99-09-2	3-Nitroaniline	ND	350	ug/kg
100-01-6	4-Nitroaniline	ND	350	ug/kg
98-95-3	Nitrobenzene	ND	180	ug/kg
88-75-5	2-Nitrophenol	ND	180	ug/kg
100-02-1	4-Nitrophenol	ND	180	ug/kg
621-64-7	N-Nitrosodi-n-propylamine	ND	180	ug/kg
62-75-9	N-Nitrosodimethylamine	ND	180	ug/kg
86-30-6	N-Nitrosodiphenylamine	ND	180	ug/kg
87-86-5	Pentachlorophenol	ND	180	ug/kg
85-01-8	Phenanthrene	ND	180	ug/kg
108-95-2	Phenol	ND	180	ug/kg
129-00-0	Pyrene	ND	180	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	180	ug/kg
95-95-4	2,4,5-Trichlorophenol	ND	180	ug/kg
88-06-2	2,4,6-Trichlorophenol	ND	180	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
2,4,6-Tribromophenol	63%	18%-118%
2-Fluorobiphenyl	48%	24%-101%
2-Fluorophenol	33%	10%-94%
4-Terphenyl-d14	75%	20%-133%
Nitrobenzene-d5	42%	16%-98%
Phenol-d6	33%	15%-102%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 15
Sample Description: 841110628-15

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:30
Date Received: 06/29/2011 16:10
Date Extracted: 07/05/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 10:01 By: MRB
Preparation Method: 8100
Analytical Method: 8100

Matrix: Solid
Percent Moisture: 5.2
Sample Weight/Volume: 10.10
Dilution Factor: 1
Extract Volume: 1
Lab Data File: 6070646.D
QC Batch#: 86265

CAS No.	Parameter	Result	DL	Units
	C6-C12 Light Petroleum Distillate	ND	21	mg/kg
	C10-C28 Medium Petroleum Distillate	ND	21	mg/kg
	C16-C36 Heavy Petroleum Distillate	ND	21	mg/kg
	Total PHC	ND	21	mg/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 15
Sample Description: 841110628-15

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:30
Date Received: 06/29/2011 16:10
Date Extracted: 07/07/2011 09:00 By: DPR
Date Analyzed: 07/07/2011 22:58 By: MRB
Preparation Method: 3500
Analytical Method: 8082

Matrix: Solid
Percent Moisture: 5.2
Sample Weight/Volume: 30.05
Dilution Factor: 1
Extract Volume: 2
Lab Data File: 8070716.D
QC Batch#: 86262

CAS No.	Parameter	Result	DL	Units
12674-11-2	Aroclor 1016	ND	14	ug/kg
11104-28-2	Aroclor 1221	ND	14	ug/kg
11141-16-5	Aroclor 1232	ND	14	ug/kg
53469-21-9	Aroclor 1242	ND	14	ug/kg
12672-29-6	Aroclor 1248	ND	14	ug/kg
11097-69-1	Aroclor 1254	ND	14	ug/kg
11096-82-5	Aroclor 1260	ND	14	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Tetrachloro-m-xylene	81%	10%-103%
Decachlorobiphenyl	83%	10%-142%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 15
Sample Description: 841110628-15

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:30
Date Received: 06/29/2011 16:10
Date Analyzed: 07/01/2011 14:40 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 5.2
Dilution Factor: 1
Lab Data File: J46032.D
QC Batch#: 86156

CAS No.	Parameter	Result	DL	Units
67-64-1	Acetone	ND	10	ug/kg
107-13-1	Acrylonitrile	ND	5.0	ug/kg
71-43-2	Benzene	ND	5.0	ug/kg
108-86-1	Bromobenzene	ND	5.0	ug/kg
74-97-5	Bromochloromethane	ND	5.0	ug/kg
75-27-4	Bromodichloromethane	ND	5.0	ug/kg
75-25-2	Bromoform	ND	5.0	ug/kg
74-83-9	Bromomethane	ND	5.0	ug/kg
78-93-3	2-Butanone (MEK)	ND	10	ug/kg
104-51-8	n-Butylbenzene	ND	5.0	ug/kg
135-98-8	sec-Butylbenzene	ND	5.0	ug/kg
98-06-6	tert-Butylbenzene	ND	5.0	ug/kg
75-15-0	Carbon disulfide	ND	5.0	ug/kg
56-23-5	Carbon tetrachloride	ND	5.0	ug/kg
108-90-7	Chlorobenzene	ND	5.0	ug/kg
75-00-3	Chloroethane	ND	5.0	ug/kg
67-66-3	Chloroform	ND	5.0	ug/kg
74-87-3	Chloromethane	ND	5.0	ug/kg
95-49-8	2-Chlorotoluene	ND	5.0	ug/kg
106-43-4	4-Chlorotoluene	ND	5.0	ug/kg
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	ug/kg
124-48-1	Dibromochloromethane	ND	5.0	ug/kg
106-93-4	1,2-Dibromoethane (EDB)	ND	5.0	ug/kg
74-95-3	Dibromomethane	ND	5.0	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	5.0	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	5.0	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	5.0	ug/kg
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.0	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg
75-35-4	1,1-Dichloroethene	ND	5.0	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.0	ug/kg
142-28-9	1,3-Dichloropropane	ND	5.0	ug/kg
594-20-7	2,2-Dichloropropane	ND	5.0	ug/kg
563-58-6	1,1-Dichloropropene	ND	5.0	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/kg
60-29-7	Diethyl ether	ND	5.0	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 15
Sample Description: 841110628-15

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:30
Date Received: 06/29/2011 16:10
Date Analyzed: 07/01/2011 14:40 By: AMH
Analytical Method: 8260B

Matrix: Solid
Percent Moisture: 5.2
Dilution Factor: 1
Lab Data File: J46032.D
QC Batch#: 86156

CAS No.	Parameter	Result	DL	Units
123-91-1	1,4-Dioxane	ND	20	ug/kg
100-41-4	Ethylbenzene	ND	5.0	ug/kg
87-68-3	Hexachlorobutadiene	ND	5.0	ug/kg
591-78-6	2-Hexanone	ND	10	ug/kg
98-82-8	Isopropylbenzene	ND	5.0	ug/kg
99-87-6	4-Isopropyltoluene	ND	5.0	ug/kg
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	5.0	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	ug/kg
75-09-2	Methylene chloride	ND	5.0	ug/kg
91-20-3	Naphthalene	ND	5.0	ug/kg
103-65-1	n-Propylbenzene	ND	5.0	ug/kg
100-42-5	Styrene	ND	5.0	ug/kg
109-99-9	Tetrahydrofuran	ND	5.0	ug/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0	ug/kg
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/kg
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg
127-18-4	Tetrachloroethene (PCE)	ND	5.0	ug/kg
108-88-3	Toluene	ND	5.0	ug/kg
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/kg
79-01-6	Trichloroethene (TCE)	ND	5.0	ug/kg
75-69-4	Trichlorofluoromethane	ND	5.0	ug/kg
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/kg
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/kg
75-01-4	Vinyl chloride	ND	5.0	ug/kg
95-47-6	o-Xylene	ND	5.0	ug/kg
108-38-3	m,p-Xylenes	ND	10	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
1,2-Dichloroethane-d4	117%	82%-120%
Bromofluorobenzene	106%	70%-122%
Toluene-d8	100%	77%-126%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 16
Sample Description: 841110628-16

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:50
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 13:51 By: AMH
Date Analyzed: 07/01/2011 18:03 By: AMH
Preparation Method: Methanol Preserved
Analytical Method: 8260B

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 10.00
Dilution Factor: 50
Extract Volume: 20
Lab Data File: Q20749.D
QC Batch#: 86106

CAS No.	Parameter	Result	DL	Units
67-64-1	Acetone	ND	1000	ug/kg
107-13-1	Acrylonitrile	ND	1200	ug/kg
71-43-2	Benzene	ND	250	ug/kg
108-86-1	Bromobenzene	ND	250	ug/kg
74-97-5	Bromochloromethane	ND	250	ug/kg
75-27-4	Bromodichloromethane	ND	250	ug/kg
75-25-2	Bromoform	ND	250	ug/kg
74-83-9	Bromomethane	ND	250	ug/kg
78-93-3	2-Butanone (MEK)	ND	500	ug/kg
104-51-8	n-Butylbenzene	ND	250	ug/kg
135-98-8	sec-Butylbenzene	ND	250	ug/kg
98-06-6	tert-Butylbenzene	ND	250	ug/kg
75-15-0	Carbon disulfide	ND	250	ug/kg
56-23-5	Carbon tetrachloride	ND	250	ug/kg
108-90-7	Chlorobenzene	ND	250	ug/kg
75-00-3	Chloroethane	ND	250	ug/kg
67-66-3	Chloroform	ND	250	ug/kg
74-87-3	Chloromethane	ND	250	ug/kg
95-49-8	2-Chlorotoluene	ND	250	ug/kg
106-43-4	4-Chlorotoluene	ND	250	ug/kg
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	250	ug/kg
124-48-1	Dibromochloromethane	ND	250	ug/kg
106-93-4	1,2-Dibromoethane (EDB)	ND	250	ug/kg
74-95-3	Dibromomethane	ND	250	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	250	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	250	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	250	ug/kg
75-71-8	Dichlorodifluoromethane	ND	250	ug/kg
75-34-3	1,1-Dichloroethane	ND	250	ug/kg
107-06-2	1,2-Dichloroethane	ND	250	ug/kg
75-35-4	1,1-Dichloroethene	ND	250	ug/kg
156-59-2	cis-1,2-Dichloroethene	ND	250	ug/kg
156-60-5	trans-1,2-Dichloroethene	ND	250	ug/kg
78-87-5	1,2-Dichloropropane	ND	250	ug/kg
142-28-9	1,3-Dichloropropane	ND	250	ug/kg
594-20-7	2,2-Dichloropropane	ND	250	ug/kg
563-58-6	1,1-Dichloropropene	ND	250	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	250	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	250	ug/kg
60-29-7	Diethyl ether	ND	500	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 16
Sample Description: 841110628-16

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:50
Date Received: 06/29/2011 16:10
Date Extracted: 07/01/2011 13:51 By: AMH
Date Analyzed: 07/01/2011 18:03 By: AMH
Preparation Method: Methanol Preserved
Analytical Method: 8260B

Matrix: Other
Percent Moisture: N/A
Sample Weight/Volume: 10.00
Dilution Factor: 50
Extract Volume: 20
Lab Data File: Q20749.D
QC Batch#: 86106

CAS No.	Parameter	Result	DL	Units
123-91-1	1,4-Dioxane	ND	2500	ug/kg
100-41-4	Ethylbenzene	ND	250	ug/kg
87-68-3	Hexachlorobutadiene	ND	250	ug/kg
591-78-6	2-Hexanone	ND	500	ug/kg
98-82-8	Isopropylbenzene	ND	250	ug/kg
99-87-6	4-Isopropyltoluene	ND	250	ug/kg
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	250	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	500	ug/kg
75-09-2	Methylene chloride	ND	250	ug/kg
91-20-3	Naphthalene	ND	250	ug/kg
103-65-1	n-Propylbenzene	ND	250	ug/kg
100-42-5	Styrene	ND	250	ug/kg
109-99-9	Tetrahydrofuran	ND	250	ug/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	250	ug/kg
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	250	ug/kg
96-18-4	1,2,3-Trichloropropane	ND	250	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	ug/kg
127-18-4	Tetrachloroethene (PCE)	ND	250	ug/kg
108-88-3	Toluene	ND	250	ug/kg
87-61-6	1,2,3-Trichlorobenzene	ND	250	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	250	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	250	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	250	ug/kg
79-01-6	Trichloroethene (TCE)	ND	250	ug/kg
75-69-4	Trichlorofluoromethane	ND	250	ug/kg
95-63-6	1,2,4-Trimethylbenzene	ND	250	ug/kg
108-67-8	1,3,5-Trimethylbenzene	ND	250	ug/kg
75-01-4	Vinyl chloride	ND	250	ug/kg
95-47-6	o-Xylene	ND	250	ug/kg
108-38-3	m,p-Xylenes	ND	500	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Bromofluorobenzene	99%	92%-110%
1,2-Dichloroethane-d4	106%	88%-111%
Toluene-d8	102%	90%-118%

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 17
Sample Description: 841110628-17

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:50
Date Received: 06/29/2011 16:10
Date Analyzed: 07/01/2011 17:40 By: AMH
Analytical Method: 8260B

Matrix: Aqueous
Percent Moisture: N/A
Dilution Factor: 1
Lab Data File: Q20748.D
QC Batch#: 86106

CAS No.	Parameter	Result	DL	Units
67-64-1	Acetone	ND	10	ug/L
107-13-1	Acrylonitrile	ND	0.50	ug/L
71-43-2	Benzene	ND	1.0	ug/L
108-86-1	Bromobenzene	ND	1.0	ug/L
74-97-5	Bromochloromethane	ND	1.0	ug/L
75-27-4	Bromodichloromethane	ND	1.0	ug/L
75-25-2	Bromoform	ND	1.0	ug/L
74-83-9	Bromomethane	ND	1.0	ug/L
78-93-3	2-Butanone (MEK)	ND	5.0	ug/L
104-51-8	n-Butylbenzene	ND	1.0	ug/L
135-98-8	sec-Butylbenzene	ND	1.0	ug/L
98-06-6	tert-Butylbenzene	ND	1.0	ug/L
75-15-0	Carbon disulfide	ND	1.0	ug/L
56-23-5	Carbon tetrachloride	ND	1.0	ug/L
108-90-7	Chlorobenzene	ND	1.0	ug/L
75-00-3	Chloroethane	ND	1.0	ug/L
67-66-3	Chloroform	ND	1.0	ug/L
74-87-3	Chloromethane	ND	1.0	ug/L
95-49-8	2-Chlorotoluene	ND	1.0	ug/L
106-43-4	4-Chlorotoluene	ND	1.0	ug/L
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	ug/L
124-48-1	Dibromochloromethane	ND	0.50	ug/L
106-93-4	1,2-Dibromoethane (EDB)	ND	0.50	ug/L
74-95-3	Dibromomethane	ND	1.0	ug/L
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/L
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/L
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/L
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/L
75-34-3	1,1-Dichloroethane	ND	1.0	ug/L
107-06-2	1,2-Dichloroethane	ND	1.0	ug/L
75-35-4	1,1-Dichloroethene	ND	1.0	ug/L
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/L
78-87-5	1,2-Dichloropropane	ND	1.0	ug/L
142-28-9	1,3-Dichloropropane	ND	1.0	ug/L
594-20-7	2,2-Dichloropropane	ND	1.0	ug/L
563-58-6	1,1-Dichloropropene	ND	1.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/L
60-29-7	Diethyl ether	ND	1.0	ug/L

Premier Laboratory, Inc
Analytical Data Report

Report No: E106J35
Sample No: 17
Sample Description: 841110628-17

Customer: Fuss & O'Neill
Project: 20100607.A20/ Former Middle School

Date Collected: 06/28/2011 15:50
Date Received: 06/29/2011 16:10
Date Analyzed: 07/01/2011 17:40 By: AMH
Analytical Method: 8260B

Matrix: Aqueous
Percent Moisture: N/A
Dilution Factor: 1
Lab Data File: Q20748.D
QC Batch#: 86106

CAS No.	Parameter	Result	DL	Units
123-91-1	1,4-Dioxane	ND	20	ug/L
100-41-4	Ethylbenzene	ND	1.0	ug/L
87-68-3	Hexachlorobutadiene	ND	0.50	ug/L
591-78-6	2-Hexanone	ND	5.0	ug/L
98-82-8	Isopropylbenzene	ND	1.0	ug/L
99-87-6	4-Isopropyltoluene	ND	1.0	ug/L
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	1.0	ug/L
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L
75-09-2	Methylene chloride	ND	5.0	ug/L
91-20-3	Naphthalene	ND	1.0	ug/L
103-65-1	n-Propylbenzene	ND	1.0	ug/L
100-42-5	Styrene	ND	1.0	ug/L
109-99-9	Tetrahydrofuran	ND	1.0	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0	ug/L
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
127-18-4	Tetrachloroethene (PCE)	ND	1.0	ug/L
108-88-3	Toluene	ND	1.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/L
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/L
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/L
79-01-6	Trichloroethene (TCE)	ND	1.0	ug/L
75-69-4	Trichlorofluoromethane	ND	1.0	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/L
75-01-4	Vinyl chloride	ND	1.0	ug/L
95-47-6	o-Xylene	ND	1.0	ug/L
108-38-3	m,p-Xylenes	ND	1.0	ug/L

Sample QC

Surrogate	Recovery	QC Limits
1,2-Dichloroethane-d4	106%	88%-111%
Bromofluorobenzene	99%	92%-110%
Toluene-d8	103%	90%-118%

E106J35 TJCG

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- ☐ 78 Interstate Drive, West Springfield, MA 01089
- ☐ 50 Redfield Street, Suite 100, Boston, MA 02122
- ☒ ~~275 Promenade Street, Suite 350,~~ Providence, RI 02908 (317 Iron Horse Way, Suite 204)
- ☐ 80 Washington Street, Suite 301, Poughkeepsie, NY 12601

CHAIN-OF-CUSTODY RECORD 22065

Turnaround: ☐ 1 Day* ☐ 2 Days* ☐ 3 Days* ☒ Standard (___ days) ☐ Other ____ (days) *Surcharge Applies

PROJECT NAME: Former Middle School
PROJECT LOCATION: Woonsocket, RI
PROJECT NUMBER: 20100607.A20
LABORATORY: Premier

REPORT TO: Patrick Dowling, pdowling@fando.com
INVOICE TO: Cynthia Gianfrancesco, RIDEM
P.O. NO.: ~~[illegible]~~ 84120100607 A20
Sampler's Signature: [signature] Date: 6/28/11

Source Codes: MW=Monitoring Well, SW=Surface Water, PW=Potable Water, T=Treatment Facility, S=Soil, B=Sediment, W=Waste, A=Air, X=Other ____

Analysis Request: VOC by 8260; SVOC by 8270; 16 metals by 6010/7470; TPH by 8100; PCBs by 8082

Containers: Soil VOA Vial, [x] methanol; Soil VOA Vial, [ ] water [ ]; Glass Soil Container (8) oz [ ] Na(SO4)2 [x] Nonpreserved; Glass Soil Container ( ) oz; Other; Water VOA Vial, [ ] As is [ ] HCl; Glass Amber ( ) ml, [ ] As is [ ] H2SO4; Plastic - As is, [ ] 250 ml [ ] 500 [ ] 1000 ml; Plastic - H2SO4, [ ] 250 ml [ ] 500 ml; Plastic - HNO3, 250 ml [ ] Filtered [ ] Unfiltered; Plastic - NaOH, 250 ml

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOC by 8260	SVOC by 8270	16 metals	TPH by 8100	PCBs by 8082	Soil VOA Vial, methanol	Soil VOA Vial, water	Glass Soil Container (8) oz	Comments
1	✓	✓	✓		84110028-01	S	6/28/11	0915	✓	✓	✓	✓	✓	1	2	2	
2	✓	✓	✓		-02	↓	↓	1015	↓	↓	↓	↓	↓	↓	↓	↓	
3	✓	✓	✓		-03			1150									
4	✓	✓	✓		-04			1200									~~[illegible]~~
5	✓	✓	✓		-05			1220									
6	✓	✓	✓		-06			1250									~~[illegible]~~
7	✓	✓	✓		-07			1340									
8	✓	✓	✓		-08			1350									~~[illegible]~~
9	✓	✓	✓		-09			1420									
10	✓	✓	✓		-10	↓	↓	1430	↓	↓	↓	↓	↓	↓	↓	↓	~~[illegible]~~

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	F&O Fridge	6/28/11	1700
2	F&O Fridge	[signature]	6/29/11	1415
3	[signature]	[signature]	6/29/11	1416
4	[signature]	Michael Noble	6/29/11	1610

Reporting and Detection Limit Requirements: RIDEM R-DEC / GB-LC ✓TJCG

(2.8)

Additional Comments:
- See attached memo ✓TJCG
- Complete attached checklist ✓TJCG

~~HOLD SAMPLES -04, -06, -08, -10 UNTIL FURTHER NOTICE~~ RUN ALL SAMPLES TJCG

E106J35

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- ☑ ~~275 Promenade Street, Suite 350,~~ 317 Iron Horse Way Suite 204, Providence, RI 02908
- ☐ 80 Washington Street, Suite 301, Poughkeepsie, NY 12601

CHAIN-OF-CUSTODY RECORD 22066

Turnaround

☐ 1 Day* ☐ 3 Days* ☐ Other _____ (days)
☐ 2 Days* ☑ Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Former Middle School	Woonsocket, RI	20100607.A20	Premier

REPORT TO: Patrick Dowling, pdowling@fando.com
INVOICE TO: Cynthia Gianfrancesco, RIDEM
P.O. No.: 841201006070 A20
Sampler's Signature: Date: 6/28/11

Source Codes:
MW=Monitoring Well PW=Potable Water S=Soil W=Waste
SW=Surface Water T=Treatment Facility B=Sediment A=Air
X=Other Trip Blank

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOC by 8260	SVOC by 8270	16 Metals by 6010/7471	TPH by 8100	PCBs by 8082	Soil VOA Vial, [✓] methanol	Soil VOA Vial, [ ] water	Glass Soil Container (8) oz	Glass Soil Container ( ) oz	Other:	Water VOA Vial, [ ] As is [X] HCl	Glass Amber ( ) ml, [ ] As is	Plastic - As is, [ ] 250 ml	Plastic - H_2SO_4, [ ] 250 ml	Plastic - HNO_3, 250 ml	Plastic - NaOH, 250 ml	[ ] Filtered [ ] Unfiltered	Comments
11	✓	✓	✓		841110628-11	S	6/28/11	1450	✓	✓	✓	✓	✓			1	2	2								
12	✓	✓	✓		-12			1500	✓	✓	✓	✓	✓													
13	✓	✓	✓		-13			1505	✓	✓	✓	✓	✓													
14	✓	✓	✓		-14			1520	✓	✓	✓	✓	✓													
15	✓	✓	✓		-15			1530	✓	✓	✓	✓	✓													
16	✓	✓	✓		-16	X		1550	✓							1										Trip Blank Soil
17	✓	✓	✓		-17	X		1550	✓										1							Trip Blank Water

Transfer Number	Relinquished By	Accepted By	Date	Time
1		Fed Fedex	6/28/11	1700
2	Fed Fedex		6/29/11	1415
3			6/29/11	1416
4			6/29/11	1610

Reporting and Detection Limit Requirements: RIDEM R-DEC / GB-LC

Additional Comments:
- See attached memo
- Complete attached checklist

~~HOLD SAMPLES 13 and 15 until further notice~~
RUN ALL SAMPLES

2.8

E106J35

FUSS & O'NEILL

MEMORANDUM

TO: Premier Laboratory

FROM: Steve Hubbs

DATE: June 28, 2011

RE: Former Middle School
Woonsocket, Rhode Island
F&O Project #: 20100607.A20

Please note the following requirements for the analysis of samples from the Former Middle School site assessment.

1. Please provide analytical data in GIS/Key electronic data deliverable format to Patrick Dowling at pdowling@fando.com.

2. Please provide "pdf" versions of laboratory reports via email as soon as data becomes available.

3. Final hardcopy laboratory reports should be mailed to Cynthia Gianfrancesco, Rhode Island Department of Environmental Management, 235 Promenade Street, Providence, RI 02908.

4. Bill should be in accordance with the rates in your Master Price Agreement with RIDEM. Invoices should be mailed to Cynthia Gianfrancesco, Rhode Island Department of Environmental Management, 235 Promenade Street, Providence, RI 02908.

5. Please complete and provide the attached data validation/completeness checklist for each sample delivery group for this project.

6. Laboratory reporting limits must meet the RIDEM Residential Direct Exposure Criteria and GB Leachability Criteria for soil and the GA Groundwater Objectives for groundwater. Please report results as "J values" where required to meet these regulatory standards.

7. 16 Total Metals include antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, thallium, vanadium, and zinc.

8. Please report labor hours expended for ARRA reporting requirements.

GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN RHODE ISLAND LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST ORGANIC COMPOUNDS

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**

		YES	NO	COMMENTS
1.	SDG Project Narratives	☒	☐	
2.	Traffic Report	☐	☐	NA
3.	Volatiles Data			
a.	Sample Data			
	Target Compound List (TCL) Results	☒	☐	
	Reconstructed total ion chromatograms (RIC) for each sample	☒	☐	
	For each sample:			
	Raw spectra and background-subtracted mass spectra of target compounds identified	☒	☐	
	Mass spectra of all reported TICs with three best library matches	☐	☐	NA
	Percent solids calculations	☒	☐	
b.	Standards Data (all instruments)			
	Initial Calibration Data	☒	☐	
	RICs and Quan Reports for all Standards	☒	☐	
	Continuing Calibration	☒	☐	
	RICs and Quan Reports for all Standards	☒	☐	
	Internal Standard Area Summary	☒	☐	
c.	Raw QC Data			
	Blank Data	☒	☐	
	Matrix Spike Data	☐	☐	NA
	Matrix Spike Duplicate Data	☐	☐	NA
4.	Semivolatiles Data			
a.	QC Summary			
	Surrogate Percent Recovery Summary	☒	☐	
	MS/MSD Summary	☐	☐	NA
	Method Blank Summary		☒	☐
	Tuning and Mass Calibration	☒	☐	

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECT IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
ORGANIC COMPOUNDS
(Continued)

	PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**		
	YES	NO	COMMENTS
b. Sample Data			
TCL Results	☒	☐	
Tentatively Identified Compounds	☐	☐	NA
Reconstructed total ion chromatograms (RIC) for each Sample	☒	☐	
For each sample:			
Raw spectra and background-subtracted mass spectra of TCL compounds	☒	☐	
Mass spectra of TICs with 3 best library matches	☐	☐	NA
GPC chromatograms (if GPC performed)	☐	☐	NA
c. Standards Data (all instruments)			
Initial Calibration Data	☒	☐	
RICs and Quan Reports for all Standards	☒	☐	
Continuing Calibration	☒	☐	
RICs and Quan Reports for all Standards	☒	☐	
Internal Standard Areas Summary	☒	☐	
Internal Standard Areas Summary	☒	☐	
d. Raw QC Data			
Decafluorotripbenylphosphine (DFTPP)	☒	☐	
Blank Data	☒	☐	
Matrix Spike Data	☐	☐	NA
Matrix Spike Duplicate Data	☐	☐	NA
5. Miscellaneous Data			
Original preparation and analysis forms or copies of preparation and analysis log book pages	☒	☐	
Internal sample & sample extract transfer chain-of custody records	☐	☐	NA
Screening Records	☐	☐	NA
All instrument output, including strip charts from screening activities (describe or list)	☒	☐	

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
ORGANIC COMPOUNDS
(Continued)

		PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**		
		YES	NO	COMMENTS
6.	Chain-of-Custody Records	☑	☐	
	Sample Log-in Sheet (Lab & DC1)	☐	☐	
	Miscellaneous Shipping/Receiving Records (describe or list)	☐	☐	
7.	Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)	☐	☐	
8.	Other Records (describe or list)	☐	☐	
9.	Comments:			

** See laboratory Quality Assurance Plan for limits.

Completed by: Montgomery (Lab) (Signature) LISA MONTGOMERY (Printed Name/Title) 9/9/11 Date

I certify that the above information is true and accurate. I further certify that all laboratory results associated with the above analyses will be made available for review for seven (7) years following certification of this document.

Certified by: Montgomery (Lab) (Signature) LISA MONTGOMERY (Printed Name/Title) 9/9/11 Date

GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN RHODE ISLAND LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST INORGANIC COMPOUNDS

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**

		YES	NO	COMMENTS
1.	SDG Project Narratives	☑	☐	
2.	Inorganic Analysis Data Sheet	☑	☐	
3.	Initial and Continuing Calibration Verification	☑	☐	
4.	CRDL Standard for AA and ICP	☑	☐	
5.	Blanks	☑	☐	
6.	ICP Interference Check Sample	☑	☐	
7.	Spike Sample Recovery	☑	☐	
8.	Post Digest Spike Sample Recovery	☐	☑	
9.	Duplicates	☑	☐	
10.	Laboratory Control Sample	☑	☐	
11.	Standard Addition Results	☑	☑	N/A
12.	ICP Serial Dilutions	☐	☑	N/A
13.	Instrument Detection Limits, Quarterly	☑	☐	Annual
14.	ICP Interelement Correction Factors, Annually	☑	☐	
15.	ICP Linear Ranges Quarterly	☑	☐	
16.	Preparation Log	✓	☐	☐
17.	Analysis Run Log	☑	☐	
18.	ICP Raw Data	☑	☐	
19.	Furnace AA Raw Data	☐	☑	
20.	Mercury Raw Data	☑	☐	
21.	Percent Solids Calculations	☑	☐	
22.	Digestion Logs	☑	☐	
23.	EPA Shipping/Receiving Records (List all individual records)	☐	☐	
	Chain-of Custody Records	☑	☐	
	Sample Log-In sheet	☑	☐	LIMS
24.	Miscellaneous Shipping/Receiving Records (List all individual records)	☐	☑	

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
INORGANIC COMPOUNDS
(Continued)

		PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**		
		YES	NO	COMMENTS
25.	Internal Lab Sample Transfer Records and Tracking Sheets (Describe or List) N/A			
26.	Internal Original Sample Preparation and analysis Records			
	(Describe or List	☐	☐	
	Preparation Records	☑	☐	logbook
	Analysis Records	☑	☐	electronic
	Description	☐	☐	
27.	Other Records (Describe or List)			
28.	Comments:			

** See laboratory Quality Assurance Plan for limits.

Completed by: K. Laliberte (Lab) (Signature) K. Laliberte (Printed Name/Title) 09-09-11 Date

I certify that the above information is true and accurate. I further certify that all laboratory results associated with the above analyses will be made available for review for seven (7) years following certification of this document.

Certified by: Montgomery (Lab) (Signature) Lisa Montgomery (Printed Name/Title) 9/9/11 Date

Modified Tier II
Data Validation Narrative

Project: 20100607.A20
Site Investigation/Targeted Brownfields Assessment
Former Woonsocket Middle School

Con-Test Analytical Laboratory Project Number:	MC3739
Date Samples Received at Laboratory:	September 20, 2011
Date of Review:	October 2011

Seven primary soil-gas samples and one duplicate sample were collected and submitted to Accutest Laboratories (Accutest). The primary and duplicate samples were analyzed for:

- Volatile organic compounds (VOC) via USEPA TO-15

Samples were extracted and analyzed by the Accutest within the holding times specified in USEPA Method TO-15.

Analytical results were compared to the Residential Soil Vapor Volatilization Criteria (R-SVVC) promulgated by the Connecticut Department of Energy and Environmental Protection (CTDEEP 2003). The laboratory reporting limits were low enough to allow direct comparison to these criteria.

Analysis of laboratory blank samples indicated that recoveries of several target analytes were outside of QC limits. However, the affected analytes were reported below laboratory reporting limits. Potential bias, low or high, in the results is therefore not anticipated to affect the usability of the analytical results.

Results of the primary and duplicate soil-gas sample exhibited relative percent differences (RPD) less than 30%, except for methylene chloride (RPD 75%) and Tetrachloroethene (RPD 43%). The elevated RPDs may be attributed to matrix interference or sample heterogeneity. However, the reported concentrations of methylene chloride and tetrachloroethene were below laboratory reporting limits, or several orders of magnitude below the R-SVVC. The elevated RPDs are therefore not anticipated to affect the usability of the analytical results.

The field and laboratory data associated with the above referenced project are compliant with the May 2011 *Site-Specific QAPP Addendum* for the Former Woonsocket Middle School site.

FUSS & O'NEILL

INITIAL DATE: OCTOBER 2011
REVISION DATE: FEBRUARY 2012
REVISION: 1.0

MC3739

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
MODIFIED TIER I COMPLETENESS CHECKLIST

	YES	NO
1. SAMPLING AND FIELD MEASUREMENTS:		
Field measurement calibration records	☐	☐ N/A
Groundwater field measurements (if applicable)	☐	☐ ↓
Soil sampling field measurements (if applicable)	☐	☐
Sediment sampling field measurements (if applicable)	☐	☐
Surface water sampling field measurements (if applicable)	☐	☐
Low-flow sampling field measurements (if applicable)	☐	☐
Documentation of field activities	☒	☐
Sample numbering and labeling	☒	☐
Chain-of-Custody records	☒	☐
Trip blanks	☐	☐ N/A
Duplicate samples	☒	☐
Equipment blanks	☐	☐ N/A
Split samples (if any)	☐	☐ ↓
2. LABORATORY MEASUREMENTS:		
Trip blanks	☐	☐ N/A
Instrument blanks	☒	☐
Laboratory control samples	☒	☐
Duplicates samples	☒	☐
Equipment blanks	☐	☐ N/A
Matrix spike/matrix spike duplicates	☐	☐ ↓
Analysis type	☒	☐
Chain-of-Custody records	☒	☐
Surrogate recoveries	☒	☐
Sample Project Narratives	☒	☐
Split samples (if any)	☐	☐ N/A
TOTAL:	11	—

PERCENT COMPLETE: 100 %

INITIAL DATE: OCTOBER 2011
REVISION DATE: FEBRUARY 2012
REVISION: 1.0

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

1. SAMPLING AND FIELD MEASUREMENTS:	YES	NO	COMMENTS
Field measurement calibration records			
pH - ± 0.3 pH units	☐	☐	N/A
S.C. - ± 5% of calibration solution, within? calibration range	☐	☐	
Temperature - ± 0.5 °C	☐	☐	
D.O. - ± 5% of calibration solution	☐	☐	
Groundwater field measurements (if applicable)			
Water depth measured to within 0.01 ft.?	☐	☐	
Soil sampling field measurements (if applicable)			
OVM - ± 2 ppm	☐	☐	
OVA - ± 2 ppm	☐	☐	
Sediment sampling field measurements (if applicable)			
Descriptive information recorded?	☐	☐	
Surface water sampling field measurements (if applicable)			
Water depth measured to within 0.01 ft.?	☐	☐	
Low-flow sampling field measurements (if applicable)			
S.C. - ± 10%	☐	☐	
pH - ± 0.2 pH units	☐	☐	
Temperature - ± 10%	☐	☐	
Turbidity - ±5 NTU	☐	☐	
Documentation of field activities			
Site-specific information documented in field notebook?	☒	☐	
Field data sheets completed?	☒	☐	
Sample numbering and labeling			
Sample numbering conforms to sample I.D. system identified in QAPP?	☒	☐	
Chain-of-Custody records			
Chain-of-Custody forms completed?	☒	☐	

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND
FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST
(Continued)

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

	YES	NO	COMMENTS
Trip blanks			
Trip blanks submitted, one per day?	☐	☐	N/A
Any compounds detected in trip blanks?	☐	☐	↓
Duplicate samples			
Field duplicates performed, 1/20 samples?	☒	☐	
Duplicates performed on 10% of samples screened for explosives?	☐	☐	N/A
Is percent difference within 30% for all field parameters?	☐	☐	
Equipment blanks			
Equipment blanks submitted, one per sampling day?	☐	☐	
Any compounds detected in equipment blank?	☐	☐	
Split samples (if any)			
Split samples collected?	☐	☐	
Is percent difference within 30% for split samples?	☐	☐	↓

2. LABORATORY MEASUREMENTS:

Trip blanks			
Trip blanks submitted, one per day?	☐	☐	N/A
Any compounds detected in trip blanks?	☐	☐	↓
Instrument blanks**	☒	☐	
Laboratory control samples**	☒	☐	
Duplicates samples**	☒	☐	
Equipment blanks**	☐	☐	N/A
Matrix spike/matrix spike duplicates**	☐	☐	↓
Analysis type	☒	☐	
Chain-of-Custody records	☒	☐	
Surrogate recoveries**	☒	☐	
Sample Project Narratives	☒	☐	
Split samples (if any)**	☐	☐	N/A
Most recent EPA WP-PE sample results**	☐	☐	↓

New England ACCUTEST LABORATORIES

10/07/11

Technical Report for

Fuss & O'Neill RI

Former Woonsocket M.S. Woonsocket, RI

20100607.A20

Accutest Job Number: MC3739

Sampling Date: 09/19/11

Report to:

Fuss & O'Neill RI
317 Iron Horse Way Suite 204
Providence, RI 02908
pdowling@fando.com

ATTN: Patrick Dowling

Total number of pages in report: **70**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) ISO 17025:2005 (L2235)

Test results relate only to samples analyzed.

Sections: 1 2 3 4 5

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Accutest Laboratories

Sample Summary

Fuss & O'Neill RI

Job No: MC3739

Former Woonsocket M.S. Woonsocket, RI
Project No: 20100607.A20

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC3739-1	09/19/11	10:20	PD	09/20/11	AIR	Air	841110919-01
MC3739-2	09/19/11	10:50	PD	09/20/11	AIR	Air	841110919-02
MC3739-3	09/19/11	11:50	PD	09/20/11	AIR	Air	841110919-03
MC3739-4	09/19/11	12:15	PD	09/20/11	AIR	Air	841110919-04
MC3739-5	09/19/11	12:55	PD	09/20/11	AIR	Air	841110919-05
MC3739-6	09/19/11	13:40	PD	09/20/11	AIR	Air	841110919-06
MC3739-7	09/19/11	14:30	PD	09/20/11	AIR	Air	841110919-07
MC3739-8	09/19/11	14:30	PD	09/20/11	AIR	Air	841110919-08

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Fuss & O'Neill RI	**Job No**	MC3739
Site:	Former Woonsocket M.S. Woonsocket, RI	**Report Date**	10/5/2011 4:06:17 PM

8 Samples were collected on 09/19/2011 and were received at Accutest on 09/20/2011 and intact. These Samples received an Accutest job number of MC3739. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method TO-15

Matrix AIR **Batch ID:** MSJ1059

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC3944-1DUP were used as the QC samples indicated.
- Blank Spike Recovery(s) for 1,2,4-Trichlorobenzene, Benzyl Chloride, trans-1,3-Dichloropropene are outside control limits. Associated samples are non-detect for this compound.

Matrix AIR **Batch ID:** MSJ1060

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC3739-7DUP were used as the QC samples indicated.
- Blank Spike Recovery(s) for 1,2,4-Trichlorobenzene, Benzyl Chloride, Hexachlorobutadiene, m-Dichlorobenzene, p-Dichlorobenzene are outside control limits. Associated samples are non-detect for this compound.
- RPD(s) for Duplicate for Ethanol, Isopropyl Alcohol, m,p-Xylene, o-Xylene, Tetrachloroethylene, Toluene are outside control limits for sample MC3739-7DUP. High RPD due to possible matrix interference and/or sample non-homogeneity.
- MC3739-3, 4: Confirmation run for internal standard areas.

Matrix AIR **Batch ID:** MSJ1061

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC4112-3DUP were used as the QC samples indicated.
- Blank Spike Recovery(s) for 1,2,4-Trichlorobenzene, Benzyl Chloride are outside control limits. Associated samples are non-detect for this compound.
- RPD(s) for Duplicate for Acetone, Chloromethane, Ethanol are outside control limits for sample MC4112-3DUP. High RPD due to possible matrix interference and/or sample non-homogeneity.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC3739).

New England ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: 841110919-01
Lab Sample ID: MC3739-1
Matrix: AIR - Air Summa ID: M229
Method: TO-15
Project: Former Woonsocket M.S. Woonsocket, RI

Date Sampled: 09/19/11
Date Received: 09/20/11
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J20011.D	1	10/04/11	AA	n/a	n/a	MSJ1061
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	14.1	0.50	ppbv		33.5	1.2	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.50	ppbv		ND	1.1	ug/m3
71-43-2	78.11	Benzene	0.62	0.50	ppbv		2.0	1.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.50	ppbv		ND	3.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.50	ppbv		ND	5.2	ug/m3
74-83-9	94.94	Bromomethane	ND	0.50	ppbv		ND	1.9	ug/m3
593-60-2	106.9	Bromoethene	ND	0.50	ppbv		ND	2.2	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.50	ppbv		ND	1.6	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.50	ppbv		ND	2.3	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.59	0.50	ppbv		2.9	2.4	ug/m3
74-87-3	50.49	Chloromethane	ND	0.50	ppbv		ND	1.0	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.50	ppbv		ND	1.6	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.50	ppbv		ND	2.6	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.50	ppbv		ND	1.7	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.50	ppbv		ND	3.8	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.50	ppbv		ND	2.3	ug/m3
123-91-1	88	1,4-Dioxane	ND	0.50	ppbv		ND	1.8	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.50	ppbv		ND	2.5	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.50	ppbv		ND	4.3	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 841110919-01
Lab Sample ID: MC3739-1
Matrix: AIR - Air Summa ID: M229
Method: TO-15
Project: Former Woonsocket M.S. Woonsocket, RI

Date Sampled: 09/19/11
Date Received: 09/20/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46	Ethanol	22.6	0.50	ppbv		42.5	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.50	ppbv		ND	2.2	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.50	ppbv		ND	2.5	ug/m3
76-13-1	187.4	Freon 113	ND	0.50	ppbv		ND	3.8	ug/m3
76-14-2	170.9	Freon 114	ND	0.50	ppbv		ND	3.5	ug/m3
142-82-5	100.2	Heptane	ND	0.50	ppbv		ND	2.0	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.50	ppbv		ND	5.3	ug/m3
110-54-3	86.17	Hexane	0.55	0.50	ppbv		1.9	1.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.50	ppbv		ND	2.0	ug/m3
67-63-0	60	Isopropyl Alcohol	3.2	0.50	ppbv		7.9	1.2	ug/m3
75-09-2	84.94	Methylene chloride	0.86	0.50	ppbv		3.0	1.7	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.5	0.50	ppbv		4.4	1.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.50	ppbv		ND	2.0	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.50	ppbv		ND	1.8	ug/m3
115-07-1	42	Propylene	2.5	0.50	ppbv		4.3	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.50	ppbv		ND	2.1	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.50	ppbv		ND	3.7	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.50	ppbv		ND	2.3	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.50	ppbv		ND	1.5	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.20	ppbv		ND	1.4	ug/m3
109-99-9	72	Tetrahydrofuran	0.56	0.50	ppbv		1.6	1.5	ug/m3
108-88-3	92.14	Toluene	2.7	0.50	ppbv		10	1.9	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.20	ppbv		ND	1.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.50	ppbv		ND	2.8	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
	106.2	m,p-Xylene	1.1	0.50	ppbv		4.8	2.2	ug/m3
95-47-6	106.2	o-Xylene	ND	0.50	ppbv		ND	2.2	ug/m3
1330-20-7	106.2	Xylenes (total)	1.4	0.50	ppbv		6.1	2.2	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		50-129%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 841110919-02
Lab Sample ID: MC3739-2
Matrix: AIR - Air Summa ID: M040
Method: TO-15
Project: Former Woonsocket M.S. Woonsocket, RI

Date Sampled: 09/19/11
Date Received: 09/20/11
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J19995.D	1	10/03/11	AA	n/a	n/a	MSJ1060
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	39.8	0.50	ppbv		94.5	1.2	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.50	ppbv		ND	1.1	ug/m3
71-43-2	78.11	Benzene	0.71	0.50	ppbv		2.3	1.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.50	ppbv		ND	3.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.50	ppbv		ND	5.2	ug/m3
74-83-9	94.94	Bromomethane	ND	0.50	ppbv		ND	1.9	ug/m3
593-60-2	106.9	Bromoethene	ND	0.50	ppbv		ND	2.2	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	0.57	0.50	ppbv		1.8	1.6	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.50	ppbv		ND	2.3	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.50	ppbv		ND	2.4	ug/m3
74-87-3	50.49	Chloromethane	ND	0.50	ppbv		ND	1.0	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.50	ppbv		ND	1.6	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.50	ppbv		ND	2.6	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.50	ppbv		ND	1.7	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.50	ppbv		ND	3.8	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.50	ppbv		ND	2.3	ug/m3
123-91-1	88	1,4-Dioxane	ND	0.50	ppbv		ND	1.8	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.50	ppbv		ND	2.5	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.50	ppbv		ND	4.3	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 841110919-02
Lab Sample ID: MC3739-2
Matrix: AIR - Air Summa ID: M040
Method: TO-15
Project: Former Woonsocket M.S. Woonsocket, RI

Date Sampled: 09/19/11
Date Received: 09/20/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.50	ppbv		ND	2.2	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.50	ppbv		ND	2.5	ug/m3
76-13-1	187.4	Freon 113	ND	0.50	ppbv		ND	3.8	ug/m3
76-14-2	170.9	Freon 114	ND	0.50	ppbv		ND	3.5	ug/m3
142-82-5	100.2	Heptane	ND	0.50	ppbv		ND	2.0	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.50	ppbv		ND	5.3	ug/m3
110-54-3	86.17	Hexane	ND	0.50	ppbv		ND	1.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.50	ppbv		ND	2.0	ug/m3
67-63-0	60	Isopropyl Alcohol	ND	0.50	ppbv		ND	1.2	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.50	ppbv		ND	1.7	ug/m3
78-93-3	72.11	Methyl ethyl ketone	7.3	0.50	ppbv		22	1.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.50	ppbv		ND	2.0	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.50	ppbv		ND	1.8	ug/m3
115-07-1	42	Propylene	8.4	0.50	ppbv		14	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.50	ppbv		ND	2.1	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.50	ppbv		ND	3.7	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.5	0.50	ppbv		7.4	2.5	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	6.2	0.50	ppbv		29	2.3	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.50	ppbv		ND	1.5	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.8	0.20	ppbv		12	1.4	ug/m3
109-99-9	72	Tetrahydrofuran	ND	0.50	ppbv		ND	1.5	ug/m3
108-88-3	92.14	Toluene	1.2	0.50	ppbv		4.5	1.9	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.20	ppbv		ND	1.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.50	ppbv		ND	2.8	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	2.2	0.50	ppbv		7.7	1.8	ug/m3
	106.2	m,p-Xylene	1.2	0.50	ppbv		5.2	2.2	ug/m3
95-47-6	106.2	o-Xylene	0.50	0.50	ppbv		2.2	2.2	ug/m3
1330-20-7	106.2	Xylenes (total)	1.7	0.50	ppbv		7.4	2.2	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		50-129%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 841110919-03
Lab Sample ID: MC3739-3
Matrix: AIR - Air Summa ID: M092
Method: TO-15
Project: Former Woonsocket M.S. Woonsocket, RI

Date Sampled: 09/19/11
Date Received: 09/20/11
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J19967.D	1	10/01/11	AA	n/a	n/a	MSJ1059
Run #2 [a]	J19996.D	1	10/04/11	AA	n/a	n/a	MSJ1060

	Initial Volume
Run #1	400 ml
Run #2	400 ml

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	12.0	0.50	ppbv		28.5	1.2	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.50	ppbv		ND	1.1	ug/m3
71-43-2	78.11	Benzene	ND	0.50	ppbv		ND	1.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.50	ppbv		ND	3.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.50	ppbv		ND	5.2	ug/m3
74-83-9	94.94	Bromomethane	ND	0.50	ppbv		ND	1.9	ug/m3
593-60-2	106.9	Bromoethene	ND	0.50	ppbv		ND	2.2	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	0.90	0.50	ppbv		2.8	1.6	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.50	ppbv		ND	2.3	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.50	ppbv		ND	2.4	ug/m3
74-87-3	50.49	Chloromethane	ND	0.50	ppbv		ND	1.0	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.50	ppbv		ND	1.6	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.50	ppbv		ND	2.6	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.50	ppbv		ND	1.7	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.50	ppbv		ND	3.8	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.50	ppbv		ND	2.3	ug/m3
123-91-1	88	1,4-Dioxane	ND	0.50	ppbv		ND	1.8	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.50	ppbv		ND	2.5	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.50	ppbv		ND	4.3	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 841110919-03
Lab Sample ID: MC3739-3
Matrix: AIR - Air Summa ID: M092
Method: TO-15
Project: Former Woonsocket M.S. Woonsocket, RI

Date Sampled: 09/19/11
Date Received: 09/20/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.50	ppbv		ND	2.2	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.50	ppbv		ND	2.5	ug/m3
76-13-1	187.4	Freon 113	ND	0.50	ppbv		ND	3.8	ug/m3
76-14-2	170.9	Freon 114	ND	0.50	ppbv		ND	3.5	ug/m3
142-82-5	100.2	Heptane	ND	0.50	ppbv		ND	2.0	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.50	ppbv		ND	5.3	ug/m3
110-54-3	86.17	Hexane	ND	0.50	ppbv		ND	1.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.50	ppbv		ND	2.0	ug/m3
67-63-0	60	Isopropyl Alcohol	ND	0.50	ppbv		ND	1.2	ug/m3
75-09-2	84.94	Methylene chloride	1.3	0.50	ppbv		4.5	1.7	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.50	ppbv		ND	1.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.50	ppbv		ND	2.0	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.50	ppbv		ND	1.8	ug/m3
115-07-1	42	Propylene	0.75	0.50	ppbv		1.3	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.50	ppbv		ND	2.1	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.50	ppbv		ND	3.7	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.50	ppbv		ND	2.3	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.50	ppbv		ND	1.5	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.20	ppbv		ND	1.4	ug/m3
109-99-9	72	Tetrahydrofuran	ND	0.50	ppbv		ND	1.5	ug/m3
108-88-3	92.14	Toluene	1.7	0.50	ppbv		6.4	1.9	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.20	ppbv		ND	1.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.50	ppbv		ND	2.8	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
	106.2	m,p-Xylene	0.90	0.50	ppbv		3.9	2.2	ug/m3
95-47-6	106.2	o-Xylene	ND	0.50	ppbv		ND	2.2	ug/m3
1330-20-7	106.2	Xylenes (total)	1.2	0.50	ppbv		5.2	2.2	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%	87%	50-129%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	841110919-03		
Lab Sample ID:	MC3739-3	**Date Sampled:**	09/19/11
Matrix:	AIR - Air Summa ID: M092	**Date Received:**	09/20/11
Method:	TO-15	**Percent Solids:**	n/a
Project:	Former Woonsocket M.S. Woonsocket, RI		

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units

(a) Confirmation run for internal standard areas.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 841110919-04
Lab Sample ID: MC3739-4
Matrix: AIR - Air Summa ID: M261
Method: TO-15
Project: Former Woonsocket M.S. Woonsocket, RI

Date Sampled: 09/19/11
Date Received: 09/20/11
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J19968.D	1	10/01/11	AA	n/a	n/a	MSJ1059
Run #2 [a]	J19997.D	1	10/04/11	AA	n/a	n/a	MSJ1060

	Initial Volume
Run #1	400 ml
Run #2	400 ml

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	18.7	0.50	ppbv		44.4	1.2	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.50	ppbv		ND	1.1	ug/m3
71-43-2	78.11	Benzene	1.5	0.50	ppbv		4.8	1.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.50	ppbv		ND	3.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.50	ppbv		ND	5.2	ug/m3
74-83-9	94.94	Bromomethane	ND	0.50	ppbv		ND	1.9	ug/m3
593-60-2	106.9	Bromoethene	ND	0.50	ppbv		ND	2.2	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	1.2	0.50	ppbv		3.7	1.6	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.50	ppbv		ND	2.3	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.50	ppbv		ND	2.4	ug/m3
74-87-3	50.49	Chloromethane	ND	0.50	ppbv		ND	1.0	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.50	ppbv		ND	1.6	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.50	ppbv		ND	2.6	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.50	ppbv		ND	1.7	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.50	ppbv		ND	3.8	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.50	ppbv		ND	2.3	ug/m3
123-91-1	88	1,4-Dioxane	ND	0.50	ppbv		ND	1.8	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.55	0.50	ppbv		2.7	2.5	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.50	ppbv		ND	4.3	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 841110919-04
Lab Sample ID: MC3739-4
Matrix: AIR - Air Summa ID: M261
Method: TO-15
Project: Former Woonsocket M.S. Woonsocket, RI

Date Sampled: 09/19/11
Date Received: 09/20/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.80	0.50	ppbv		3.5	2.2	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.50	ppbv		ND	2.5	ug/m3
76-13-1	187.4	Freon 113	ND	0.50	ppbv		ND	3.8	ug/m3
76-14-2	170.9	Freon 114	ND	0.50	ppbv		ND	3.5	ug/m3
142-82-5	100.2	Heptane	0.58	0.50	ppbv		2.4	2.0	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.50	ppbv		ND	5.3	ug/m3
110-54-3	86.17	Hexane	ND	0.50	ppbv		ND	1.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.50	ppbv		ND	2.0	ug/m3
67-63-0	60	Isopropyl Alcohol	ND	0.50	ppbv		ND	1.2	ug/m3
75-09-2	84.94	Methylene chloride	8.3	0.50	ppbv		29	1.7	ug/m3
78-93-3	72.11	Methyl ethyl ketone	5.5	0.50	ppbv		16	1.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.50	ppbv		ND	2.0	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.50	ppbv		ND	1.8	ug/m3
115-07-1	42	Propylene	18.9	0.50	ppbv		32.5	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.50	ppbv		ND	2.1	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.50	ppbv		ND	3.7	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.66	0.50	ppbv		3.2	2.5	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.50	ppbv		ND	2.3	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.50	ppbv		ND	1.5	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.88	0.20	ppbv		6.0	1.4	ug/m3
109-99-9	72	Tetrahydrofuran	0.66	0.50	ppbv		1.9	1.5	ug/m3
108-88-3	92.14	Toluene	4.3	0.50	ppbv		16	1.9	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.20	ppbv		ND	1.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.50	ppbv		ND	2.8	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	1.3	0.50	ppbv		4.6	1.8	ug/m3
	106.2	m,p-Xylene	2.6	0.50	ppbv		11	2.2	ug/m3
95-47-6	106.2	o-Xylene	0.79	0.50	ppbv		3.4	2.2	ug/m3
1330-20-7	106.2	Xylenes (total)	3.4	0.50	ppbv		15	2.2	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%	104%	50-129%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	841110919-04		
Lab Sample ID:	MC3739-4	**Date Sampled:**	09/19/11
Matrix:	AIR - Air Summa ID: M261	**Date Received:**	09/20/11
Method:	TO-15	**Percent Solids:**	n/a
Project:	Former Woonsocket M.S. Woonsocket, RI		

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units

(a) Confirmation run for internal standard areas.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 841110919-05
Lab Sample ID: MC3739-5
Matrix: AIR - Air Summa ID: M019
Method: TO-15
Project: Former Woonsocket M.S. Woonsocket, RI

Date Sampled: 09/19/11
Date Received: 09/20/11
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J19998.D	1	10/04/11	AA	n/a	n/a	MSJ1060
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	27.5	0.50	ppbv		65.3	1.2	ug/m3
106-99-0	54.09	1,3-Butadiene	1.7	0.50	ppbv		3.8	1.1	ug/m3
71-43-2	78.11	Benzene	1.6	0.50	ppbv		5.1	1.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.50	ppbv		ND	3.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.50	ppbv		ND	5.2	ug/m3
74-83-9	94.94	Bromomethane	ND	0.50	ppbv		ND	1.9	ug/m3
593-60-2	106.9	Bromoethene	ND	0.50	ppbv		ND	2.2	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	1.0	0.50	ppbv		3.1	1.6	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.50	ppbv		ND	2.3	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.50	ppbv		ND	2.4	ug/m3
74-87-3	50.49	Chloromethane	ND	0.50	ppbv		ND	1.0	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.50	ppbv		ND	1.6	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.50	ppbv		ND	2.6	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.50	ppbv		ND	1.7	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.50	ppbv		ND	3.8	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.50	ppbv		ND	2.3	ug/m3
123-91-1	88	1,4-Dioxane	ND	0.50	ppbv		ND	1.8	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.84	0.50	ppbv		4.2	2.5	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.50	ppbv		ND	4.3	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 841110919-05
Lab Sample ID: MC3739-5
Matrix: AIR - Air Summa ID: M019
Method: TO-15
Project: Former Woonsocket M.S. Woonsocket, RI

Date Sampled: 09/19/11
Date Received: 09/20/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.52	0.50	ppbv		2.3	2.2	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.50	ppbv		ND	2.5	ug/m3
76-13-1	187.4	Freon 113	ND	0.50	ppbv		ND	3.8	ug/m3
76-14-2	170.9	Freon 114	ND	0.50	ppbv		ND	3.5	ug/m3
142-82-5	100.2	Heptane	0.80	0.50	ppbv		3.3	2.0	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.50	ppbv		ND	5.3	ug/m3
110-54-3	86.17	Hexane	ND	0.50	ppbv		ND	1.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.50	ppbv		ND	2.0	ug/m3
67-63-0	60	Isopropyl Alcohol	ND	0.50	ppbv		ND	1.2	ug/m3
75-09-2	84.94	Methylene chloride	1.2	0.50	ppbv		4.2	1.7	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.50	ppbv		ND	1.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.50	ppbv		ND	2.0	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.50	ppbv		ND	1.8	ug/m3
115-07-1	42	Propylene	20.1	0.50	ppbv		34.5	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.50	ppbv		ND	2.1	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.50	ppbv		ND	3.7	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.50	ppbv		ND	2.3	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.50	ppbv		ND	1.5	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.20	ppbv		ND	1.4	ug/m3
109-99-9	72	Tetrahydrofuran	ND	0.50	ppbv		ND	1.5	ug/m3
108-88-3	92.14	Toluene	6.2	0.50	ppbv		23	1.9	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.20	ppbv		ND	1.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.71	0.50	ppbv		4.0	2.8	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	0.67	0.50	ppbv		2.4	1.8	ug/m3
	106.2	m,p-Xylene	1.8	0.50	ppbv		7.8	2.2	ug/m3
95-47-6	106.2	o-Xylene	0.52	0.50	ppbv		2.3	2.2	ug/m3
1330-20-7	106.2	Xylenes (total)	2.3	0.50	ppbv		10	2.2	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		50-129%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 841110919-06
Lab Sample ID: MC3739-6
Matrix: AIR - Air Summa ID: M166
Method: TO-15
Project: Former Woonsocket M.S. Woonsocket, RI

Date Sampled: 09/19/11
Date Received: 09/20/11
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J20008.D	1	10/04/11	AA	n/a	n/a	MSJ1061
Run #2	J20010.D	5	10/04/11	AA	n/a	n/a	MSJ1061

	Initial Volume
Run #1	400 ml
Run #2	400 ml

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	46.0 [a]	2.5	ppbv		109 [a]	5.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.50	ppbv		ND	1.1	ug/m3
71-43-2	78.11	Benzene	1.6	0.50	ppbv		5.1	1.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.50	ppbv		ND	3.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.50	ppbv		ND	5.2	ug/m3
74-83-9	94.94	Bromomethane	ND	0.50	ppbv		ND	1.9	ug/m3
593-60-2	106.9	Bromoethene	ND	0.50	ppbv		ND	2.2	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	1.9	0.50	ppbv		5.9	1.6	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.50	ppbv		ND	2.3	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.50	ppbv		ND	2.4	ug/m3
74-87-3	50.49	Chloromethane	ND	0.50	ppbv		ND	1.0	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.50	ppbv		ND	1.6	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.50	ppbv		ND	2.6	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.50	ppbv		ND	1.7	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.50	ppbv		ND	3.8	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.50	ppbv		ND	2.3	ug/m3
123-91-1	88	1,4-Dioxane	ND	0.50	ppbv		ND	1.8	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.50	ppbv		ND	2.5	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.50	ppbv		ND	4.3	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 841110919-06
Lab Sample ID: MC3739-6
Matrix: AIR - Air Summa ID: M166
Method: TO-15
Project: Former Woonsocket M.S. Woonsocket, RI

Date Sampled: 09/19/11
Date Received: 09/20/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46	Ethanol	34.9	0.50	ppbv		65.7	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.91	0.50	ppbv		4.0	2.2	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.50	ppbv		ND	2.5	ug/m3
76-13-1	187.4	Freon 113	ND	0.50	ppbv		ND	3.8	ug/m3
76-14-2	170.9	Freon 114	ND	0.50	ppbv		ND	3.5	ug/m3
142-82-5	100.2	Heptane	0.63	0.50	ppbv		2.6	2.0	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.50	ppbv		ND	5.3	ug/m3
110-54-3	86.17	Hexane	0.68	0.50	ppbv		2.4	1.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.50	ppbv		ND	2.0	ug/m3
67-63-0	60	Isopropyl Alcohol	ND	0.50	ppbv		ND	1.2	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.50	ppbv		ND	1.7	ug/m3
78-93-3	72.11	Methyl ethyl ketone	7.0	0.50	ppbv		21	1.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.50	ppbv		ND	2.0	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.50	ppbv		ND	1.8	ug/m3
115-07-1	42	Propylene	23.1	0.50	ppbv		39.7	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.50	ppbv		ND	2.1	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.50	ppbv		ND	3.7	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.84	0.50	ppbv		4.1	2.5	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.50	ppbv		ND	2.3	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.50	ppbv		ND	1.5	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.36	0.20	ppbv		2.4	1.4	ug/m3
109-99-9	72	Tetrahydrofuran	0.64	0.50	ppbv		1.9	1.5	ug/m3
108-88-3	92.14	Toluene	4.6	0.50	ppbv		17	1.9	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.20	ppbv		ND	1.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.50	ppbv		ND	2.8	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	2.0	0.50	ppbv		7.0	1.8	ug/m3
	106.2	m,p-Xylene	3.0	0.50	ppbv		13	2.2	ug/m3
95-47-6	106.2	o-Xylene	1.0	0.50	ppbv		4.3	2.2	ug/m3
1330-20-7	106.2	Xylenes (total)	4.0	0.50	ppbv		17	2.2	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%	87%	50-129%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	841110919-06		
Lab Sample ID:	MC3739-6	**Date Sampled:**	09/19/11
Matrix:	AIR - Air Summa ID: M166	**Date Received:**	09/20/11
Method:	TO-15	**Percent Solids:**	n/a
Project:	Former Woonsocket M.S. Woonsocket, RI		

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 841110919-07
Lab Sample ID: MC3739-7
Matrix: AIR - Air Summa ID: M154
Method: TO-15
Project: Former Woonsocket M.S. Woonsocket, RI

Date Sampled: 09/19/11
Date Received: 09/20/11
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J19984.D	1	10/03/11	AA	n/a	n/a	MSJ1060
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	16.8	0.50	ppbv		39.9	1.2	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.50	ppbv		ND	1.1	ug/m3
71-43-2	78.11	Benzene	0.79	0.50	ppbv		2.5	1.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.50	ppbv		ND	3.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.50	ppbv		ND	5.2	ug/m3
74-83-9	94.94	Bromomethane	ND	0.50	ppbv		ND	1.9	ug/m3
593-60-2	106.9	Bromoethene	ND	0.50	ppbv		ND	2.2	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	1.0	0.50	ppbv		3.1	1.6	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.50	ppbv		ND	2.3	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.50	ppbv		ND	2.4	ug/m3
74-87-3	50.49	Chloromethane	ND	0.50	ppbv		ND	1.0	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.50	ppbv		ND	1.6	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.50	ppbv		ND	2.6	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.50	ppbv		ND	1.7	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.50	ppbv		ND	3.8	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.50	ppbv		ND	2.3	ug/m3
123-91-1	88	1,4-Dioxane	ND	0.50	ppbv		ND	1.8	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.52	0.50	ppbv		2.6	2.5	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.50	ppbv		ND	4.3	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 841110919-07
Lab Sample ID: MC3739-7
Matrix: AIR - Air Summa ID: M154
Method: TO-15
Project: Former Woonsocket M.S. Woonsocket, RI

Date Sampled: 09/19/11
Date Received: 09/20/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46	Ethanol	24.7	0.50	ppbv		46.5	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.50	ppbv		ND	2.2	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.50	ppbv		ND	2.5	ug/m3
76-13-1	187.4	Freon 113	ND	0.50	ppbv		ND	3.8	ug/m3
76-14-2	170.9	Freon 114	ND	0.50	ppbv		ND	3.5	ug/m3
142-82-5	100.2	Heptane	ND	0.50	ppbv		ND	2.0	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.50	ppbv		ND	5.3	ug/m3
110-54-3	86.17	Hexane	ND	0.50	ppbv		ND	1.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.50	ppbv		ND	2.0	ug/m3
67-63-0	60	Isopropyl Alcohol	2.2	0.50	ppbv		5.4	1.2	ug/m3
75-09-2	84.94	Methylene chloride	1.1	0.50	ppbv		3.8	1.7	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.7	0.50	ppbv		5.0	1.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.50	ppbv		ND	2.0	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.50	ppbv		ND	1.8	ug/m3
115-07-1	42	Propylene	1.8	0.50	ppbv		3.1	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.50	ppbv		ND	2.1	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.20	0.20	ppbv		1.1	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.50	ppbv		ND	3.7	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.50	ppbv		ND	2.3	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.50	ppbv		ND	1.5	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.31	0.20	ppbv		2.1	1.4	ug/m3
109-99-9	72	Tetrahydrofuran	ND	0.50	ppbv		ND	1.5	ug/m3
108-88-3	92.14	Toluene	2.5	0.50	ppbv		9.4	1.9	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.20	ppbv		ND	1.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.50	ppbv		ND	2.8	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	1.0	0.50	ppbv		3.5	1.8	ug/m3
	106.2	m,p-Xylene	1.3	0.50	ppbv		5.6	2.2	ug/m3
95-47-6	106.2	o-Xylene	ND	0.50	ppbv		ND	2.2	ug/m3
1330-20-7	106.2	Xylenes (total)	1.7	0.50	ppbv		7.4	2.2	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		50-129%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 841110919-08
Lab Sample ID: MC3739-8
Matrix: AIR - Air Summa ID: M271
Method: TO-15
Project: Former Woonsocket M.S. Woonsocket, RI

Date Sampled: 09/19/11
Date Received: 09/20/11
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J19985.D	1	10/03/11	AA	n/a	n/a	MSJ1060
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	19.5	0.50	ppbv		46.3	1.2	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.50	ppbv		ND	1.1	ug/m3
71-43-2	78.11	Benzene	0.89	0.50	ppbv		2.8	1.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.50	ppbv		ND	3.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.50	ppbv		ND	5.2	ug/m3
74-83-9	94.94	Bromomethane	ND	0.50	ppbv		ND	1.9	ug/m3
593-60-2	106.9	Bromoethene	ND	0.50	ppbv		ND	2.2	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	1.1	0.50	ppbv		3.4	1.6	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.50	ppbv		ND	2.3	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.50	ppbv		ND	2.4	ug/m3
74-87-3	50.49	Chloromethane	ND	0.50	ppbv		ND	1.0	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.50	ppbv		ND	1.6	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.50	ppbv		ND	2.6	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.50	ppbv		ND	1.7	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.50	ppbv		ND	3.8	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.50	ppbv		ND	2.3	ug/m3
123-91-1	88	1,4-Dioxane	ND	0.50	ppbv		ND	1.8	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.50	ppbv		ND	2.5	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.50	ppbv		ND	4.3	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 841110919-08
Lab Sample ID: MC3739-8
Matrix: AIR - Air Summa ID: M271
Method: TO-15
Project: Former Woonsocket M.S. Woonsocket, RI

Date Sampled: 09/19/11
Date Received: 09/20/11
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46	Ethanol	26.1	0.50	ppbv		49.1	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.50	ppbv		ND	2.2	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.50	ppbv		ND	2.5	ug/m3
76-13-1	187.4	Freon 113	ND	0.50	ppbv		ND	3.8	ug/m3
76-14-2	170.9	Freon 114	ND	0.50	ppbv		ND	3.5	ug/m3
142-82-5	100.2	Heptane	ND	0.50	ppbv		ND	2.0	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.50	ppbv		ND	5.3	ug/m3
110-54-3	86.17	Hexane	ND	0.50	ppbv		ND	1.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.50	ppbv		ND	2.0	ug/m3
67-63-0	60	Isopropyl Alcohol	2.8	0.50	ppbv		6.9	1.2	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.50	ppbv		ND	1.7	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.6	0.50	ppbv		4.7	1.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.50	ppbv		ND	2.0	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.50	ppbv		ND	1.8	ug/m3
115-07-1	42	Propylene	1.8	0.50	ppbv		3.1	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.50	ppbv		ND	2.1	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.50	ppbv		ND	3.7	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.50	ppbv		ND	2.3	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.50	ppbv		ND	1.5	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.20	ppbv		ND	1.4	ug/m3
109-99-9	72	Tetrahydrofuran	0.51	0.50	ppbv		1.5	1.5	ug/m3
108-88-3	92.14	Toluene	2.5	0.50	ppbv		9.4	1.9	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.20	ppbv		ND	1.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.50	ppbv		ND	2.8	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	0.99	0.50	ppbv		3.5	1.8	ug/m3
	106.2	m,p-Xylene	1.3	0.50	ppbv		5.6	2.2	ug/m3
95-47-6	106.2	o-Xylene	ND	0.50	ppbv		ND	2.2	ug/m3
1330-20-7	106.2	Xylenes (total)	1.7	0.50	ppbv		7.4	2.2	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		50-129%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (RI)
- Chain of Custody
- Summa Canister and Flow Controller Log

Parameter Certification Exceptions

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Acetone	67-64-1	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
Bromodichloromethane	75-27-4	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
Bromoethene	593-60-2	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
2-Chlorotoluene	95-49-8	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
Cyclohexane	110-82-7	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
Dibromochloromethane	124-48-1	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
Dichlorodifluoromethane	75-71-8	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
4-Ethyltoluene	622-96-8	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
Ethanol	64-17-5	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
Ethyl Acetate	141-78-6	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
Freon 113	76-13-1	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
Freon 114	76-14-2	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
2-Hexanone	591-78-6	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
Heptane	142-82-5	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
Isopropyl Alcohol	67-63-0	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
Propylene	115-07-1	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
1,2,4-Trimethylbenzene	95-63-6	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
1,3,5-Trimethylbenzene	108-67-8	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
Tertiary Butyl Alcohol	75-65-0	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
Tetrahydrofuran	109-99-9	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
Trichlorofluoromethane	75-69-4	**TO-15**	AIR	Certified by SOP MMS294/GC-MS
m,p-Xylene		**TO-15**	AIR	Certified by SOP MMS294/GC-MS
o-Xylene	95-47-6	**TO-15**	AIR	Certified by SOP MMS294/GC-MS

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❑ 80 Washington Street, Suite 301, Poughkeepsie, NY 12601

MC3739

CHAIN-OF-CUSTODY RECORD 24560

Turnaround
❑ 1 Day* ❑ 3 Days* ❑ Other _____ (days)
❑ 2 Days* X Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Former Woonsocket M.S.	Woonsocket RI	20100607.A20	Accutest

REPORT TO: Patrick Dowling, pdowling@fando.com
INVOICE TO: Cynthia Gianfrancesco, RI Dept. of Env. Mgmt.
P.O. NO.: 8412010060 7A20

Sampler's Signature: Date: 9/19/2011

Source Codes:
MW=Monitoring Well PW=Potable Water S=Soil W=Waste
SW=Surface Water T=Treatment Facility B=Sediment A=Air
X=Other _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	10-15 by USEPA	Soil VOA Vial [ ]	Soil VOA Vial [ ] methanol	Glass Soil Container [ ] water	Glass Soil Container ( ) oz	[ ] $Na_2S_2O_3$	Other:	Water VOA Vial [ ]	Glass Amber ( ) [ ] As is	Plastic - As is [ ] HCl	Plastic - H_2SO_4 [ ]	Plastic - HNO_3 [ ]	Plastic - NaOH, 250 ml	[ ] Filtered	[ ] Unfiltered	Comments
-1	✓	✓	✓		841110919-01	A	9/19/11	1020	✓							1								
-2	✓	✓	✓		-02			1050	✓							1								
-3	✓	✓	✓		-03			1150	✓							1								
-4	✓	✓	✓		-04			1215 ~~1210~~	✓							1								
-5	✓	✓	✓		-05			1255	✓							1								
-6	✓	✓	✓		-06			1240	✓							1								
-7	✓	✓	✓		-07			1330	✓							1								
-8	✓	✓	✓		-08			1430	✓							1								
																								AMB

Transfer Number	Relinquished By	Accepted By	Date	Time
1		FedEx Office	9/19/11	1630
2	FedEx Fieldroom		9/20/11	1015
3		Will Odell	09/20/11	1010
4	Will Odell		9/20/11	1640

Reporting and Detection Limit Requirements:

Additional Comments:
- Memo w/ billing info + checklist (QA/QC) will be emailed
- Billing per Master Price Agreement w/ State of RI

MC3739: Chain of Custody
Page 1 of 11

INITIAL DATE: JULY 2007
REVISION DATE: JULY 2007
REVISION: 0.0

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN RHODE ISLAND
MODIFIED TIER I COMPLETENESS CHECKLIST

	YES	NO
1. SAMPLING AND FIELD MEASUREMENTS:		
Field measurement calibration records	☐	☐
Groundwater field measurements (if applicable)	☐	☐
Soil sampling field measurements (if applicable)	☐	☐
Sediment sampling field measurements (if applicable)	☐	☐
Surface water sampling field measurements (if applicable)	☐	☐
Low-flow sampling field measurements (if applicable)	☐	☐
Documentation of field activities	☐	☐
Sample numbering and labeling	☐	☐
Chain-of-Custody records	☐	☐
Trip blanks	☐	☐
Duplicate samples	☐	☐
Equipment blanks	☐	☐
Split samples (if any)	☐	☐
2. LABORATORY MEASUREMENTS:		
Trip blanks	☐	☑
Instrument blanks	☑	☐
Laboratory control samples	☑	☐
Duplicates samples	☑	☐
Equipment blanks	☐	☑
Matrix spike/matrix spike duplicates	☐	☑
Analysis type	☑	☐
Chain-of-Custody records	☑	☐
Surrogate recoveries	☑	☐
Sample Project Narratives	☑	☐
Split samples (if any)	☐	☑
TOTAL: _____		_____

PERCENT COMPLETE: _____ %

INITIAL DATE: JULY 2007
REVISION DATE: JULY 2007
REVISION: 0.0

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN RHODE ISLAND
FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

1. SAMPLING AND FIELD MEASUREMENTS:	YES	NO	COMMENTS
Field measurement calibration records			
pH - ± 0.3 pH units	☐	☐	N/A
S.C. - ± 5% of calibration solution, within? calibration range	☐	☐	
Temperature - ± 0.5 °C	☐	☐	
D.O. - ± 5% of calibration solution	☐	☐	
Groundwater field measurements (if applicable)			
Water depth measured to within 0.01 ft.?	☐	☐	
Soil sampling field measurements (if applicable)			
OVM - ± 2 ppm	☐	☐	
OVA - ± 2 ppm	☐	☐	
Sediment sampling field measurements (if applicable)			
Descriptive information recorded?	☐	☐	
Surface water sampling field measurements (if applicable)			
Water depth measured to within 0.01 ft.?	☐	☐	
Low-flow sampling field measurements (if applicable)			
S.C. - ± 10%	☐	☐	
pH - ± 0.2 pH units	☐	☐	
Temperature - ± 10%	☐	☐	
Turbidity - ±5 NTU	☐	☐	
Documentation of field activities			
Site-specific information documented in field notebook?	☐	☐	
Field data sheets completed?	☐	☐	
Sample numbering and labeling			
Sample numbering conforms to sample I.D. system identified in QAPP?	☐	☐	
Chain-of-Custody records			
Chain-of-Custody forms completed?	☐	☐	

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN RHODE ISLAND
FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST
(Continued)

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

	YES	NO	COMMENTS
Trip blanks			
Trip blanks submitted, one per day?	☐	☐	N/A
Any compounds detected in trip blanks?	☐	☐	
Duplicate samples			
Field duplicates performed, 1/20 samples?	☐	☐	
Duplicates performed on 10% of samples screened for explosives?		☐	
Is percent difference within 30% for all field parameters?	☐	☐	
Equipment blanks			
Equipment blanks submitted, one per sampling day?	☐	☐	
Any compounds detected in equipment blank?	☐	☐	
Split samples (if any)			
Split samples collected?	☐	☐	
Is percent difference within 30% for split samples?	☐	☐	

2. LABORATORY MEASUREMENTS:

Trip blanks			
Trip blanks submitted, one per day?	☐	☑	
Any compounds detected in trip blanks?	☐	☐	N/A
Instrument blanks**	☑	☐	
Laboratory control samples**	☑	☐	
Duplicates samples**	☑	☐	
Equipment blanks**	☐	☑	
Matrix spike/matrix spike duplicates**	☑	☑	
Analysis type	☑	☐	GC/MS
Chain-of-Custody records	☑	☐	
Surrogate recoveries**	☑	☐	
Sample Project Narratives	☑	☐	
Split samples (if any)**	☐	☑	
Most recent EPA WP-PE sample results**	☑	☐	

INITIAL DATE: JULY 2007
REVISION DATE: JULY 2007
REVISION: 0.0

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
ORGANIC COMPOUNDS

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**

		YES	NO	COMMENTS
1.	SDG Project Narratives	☑	☐	
2.	Traffic Report	☐	☐	N/A
3.	Volatiles Data (Air Sample)			
a.	Sample Data			
	Target Compound List (TCL) Results	☑	☐	
	Reconstructed total ion chromatograms (RIC) for each sample	☑	☐	
	For each sample:			
	Raw spectra and background-subtracted mass spectra of target compounds identified	☑	☐	
	Mass spectra of all reported TICs with three best library matches	☐	☑	N/A TIC not request
	Percent solids calculations	☐	☑	N/A
b.	Standards Data (all instruments)			
	Initial Calibration Data	☑	☐	
	RICs and Quan Reports for all Standards	☑	☐	
	Continuing Calibration	☑	☐	
	RICs and Quan Reports for all Standards	☑	☐	
	Internal Standard Area Summary	☑	☐	
c.	Raw QC Data			
	Blank Data	☑	☐	
	Matrix Spike Data	☐	☑	
	Matrix Spike Duplicate Data	☐	☑	duplicated sample analyzed
4.	Semivolatiles Data			
a.	QC Summary			
	Surrogate Percent Recovery Summary	☐	☐	N/A
	MS/MSD Summary	☐	☐	
	Method Blank Summary		☐	☐
	Tuning and Mass Calibration	☐	☐	

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
ORGANIC COMPOUNDS
(Continued)

		PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?**		
		YES	NO	COMMENTS
b.	Sample Data			
	TCL Results	☐	☐	N/A
	Tentatively Identified Compounds	☐	☐	
	Reconstructed total ion chromatograms (RIC) for each Sample	☐	☐	
	For each sample:			
	Raw spectra and background-subtracted mass spectra of TCL compounds	☐	☐	
	Mass spectra of TICs with 3 best library matches		☐	
	GPC chromatograms (if GPC performed)	☐	☐	
c.	Standards Data (all instruments)			
	Initial Calibration Data	☐	☐	
	RICs and Quan Reports for all Standards	☐	☐	
	Continuing Calibration	☐	☐	
	RICs and Quan Reports for all Standards	☐	☐	
	Internal Standard Areas Summary	☐	☐	
	Internal Standard Areas Summary	☐	☐	
d.	Raw QC Data			
	Decafluorotriphenylphosphine (DFTPP)		☐	
	Blank Data	☐	☐	
	Matrix Spike Data	☐	☐	
	Matrix Spike Duplicate Data	☐	☐	
5.	Miscellaneous Data			
	Original preparation and analysis forms or copies of preparation and analysis log book pages	☑	☐	
	Internal sample & sample extract transfer chain-of custody records	☑	☐	
	Screening Records	☐	☑	

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INITIAL DATE: JULY 2007
REVISION DATE: JULY 2007
REVISION: 0.0

All instrument output, including strip charts from screening activities (describe or list) ☑ ☐ _____

All raw data output from instruments available and archived.

F:\P2009\15321\A20\Lab-Data\E - Completeness Checklist.doc

4.2

4

MC3739: Chain of Custody
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INITIAL DATE: JULY 2007
REVISION DATE: JULY 2007
REVISION: 0.0

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
ORGANIC COMPOUNDS
(Continued)

		PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?** YES	NO	COMMENTS
6.	Chain-of-Custody Records	☑	☐	
	Sample Log-in Sheet (Lab & DC1)	☑	☐	
	Miscellaneous Shipping/Receiving Records (describe or list)	☑	☐	
7.	Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)	☑	☐	
8.	Other Records (describe or list)	☐	☑	
9.	Comments:			

** See laboratory Quality Assurance Plan for limits.

Completed by: (Lab) _____ (Signature) ZHANGYUN MA (Printed Name/Title) 10/7/11 Date

I certify that the above information is true and accurate. I further certify that all laboratory results associated with the above analyses will be made available for review for seven (7) years following certification of this document.

Certified by: (Lab) _____ (Signature) Reza Tafazoli, Director (Printed Name/Title) 10-7-11 Date

FUSS & O'NEILL

INITIAL DATE: JULY 2007
REVISION DATE: JULY 2007
REVISION: 0.0

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
INORGANIC COMPOUNDS

		PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?** YES	NO	COMMENTS
1.	SDG Project Narratives	☐	☐	N/A
2.	Inorganic Analysis Data Sheet	☐	☐	
3.	Initial and Continuing Calibration Verification	☐	☐	
4.	CRDL Standard for AA and ICP	☐	☐	
5.	Blanks	☐	☐	
6.	ICP Interference Check Sample	☐	☐	
7.	Spike Sample Recovery	☐	☐	
8.	Post Digest Spike Sample Recovery	☐	☐	
9.	Duplicates	☐	☐	
10.	Laboratory Control Sample	☐	☐	
11.	Standard Addition Results	☐	☐	
12.	ICP Serial Dilutions	☐	☐	
13.	Instrument Detection Limits, Quarterly	☐	☐	
14.	ICP Interelement Correction Factors, Annually	☐	☐	
15.	ICP Linear Ranges Quarterly	☐	☐	
16.	Preparation Log		☐	☐
17.	Analysis Run Log	☐	☐	
18.	ICP Raw Data	☐	☐	
19.	Furnace AA Raw Data	☐	☐	
20.	Mercury Raw Data	☐	☐	
21.	Percent Solids Calculations	☐	☐	
22.	Digestion Logs	☐	☐	
23.	EPA Shipping/Receiving Records (List all individual records)	☐	☐	
	Chain-of Custody Records	☐	☐	
	Sample Log-In sheet	☐	☐	
24.	Miscellaneous Shipping/Receiving Records (List all individual records)	☐	☐	✓

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INITIAL DATE: JULY 2007
REVISION DATE: JULY 2007
REVISION: 0.0

GENERIC QUALITY ASSURANCE PROJECT PLAN
FOR PROJECTS IN RHODE ISLAND
LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST
INORGANIC COMPOUNDS
(Continued)

		PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**		
		YES	NO	COMMENTS
25.	Internal Lab Sample Transfer Records and Tracking Sheets (Describe or List)			N/A
26.	Internal Original Sample Preparation and analysis Records (Describe or List	☐	☐	
	Preparation Records	☐	☐	
	Analysis Records	☐	☐	
	Description	☐	☐	
27.	Other Records (Describe or List)			
28.	Comments:			

** See laboratory Quality Assurance Plan for limits.

Completed by: (Lab) _____ (Signature) _____ (Printed Name/Title) _____ Date

I certify that the above information is true and accurate. I further certify that all laboratory results associated with the above analyses will be made available for review for seven (7) years following certification of this document.

Certified by: (Lab) _____ (Signature) Reza Tavakoli / Director (Printed Name/Title) 10-7-11 Date

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC3739 **Client:** FUSS ONEILL **Immediate Client Services Action Required:** No

Date / Time Received: 9/20/2011 **Delivery Method:** **Client Service Action Required at Login:** No

Project: WOONSOCKET RI **No. Coolers:** 0 **Airbill #'s:** N/A

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC3739: Chain of Custody
Page 11 of 11

Summa Canister and Flow Controller Log

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI
Received: 09/20/11

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
M229	6	29.4	09/15/11	AA	CP1093	J19785.D	MC3739-1	09/21/11	AA	.5			1
M040	6	29.4	09/15/11	AA	CP1093	J19785.D	MC3739-2	09/21/11	AA	1			1
M092	6	29.4	09/15/11	AA	CP1093	J19785.D	MC3739-3	09/21/11	AA	1			1
M261	6	29.4	09/15/11	AA	CP1093	J19785.D	MC3739-4	09/21/11	AA	1.5			1
M019	6	29.4	09/15/11	AA	CP1093	J19785.D	MC3739-5	09/21/11	AA	.5			1
M166	6	29.4	09/15/11	AA	CP1093	J19785.D	MC3739-6	09/21/11	AA	4.5			1
M154	6	29.4	09/15/11	AA	CP1093	J19785.D	MC3739-7	09/21/11	AA	1			1
M271	6	29.4	09/15/11	AA	CP1093	J19785.D	MC3739-8	09/21/11	AA	2.25			1

FLOW CONTROLLERS

Shipping					Receiving		
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min
MC002	09/15/11	AA	160	.5	09/21/11	AA	162.5
MC026	09/15/11	AA	160	.5	09/21/11	AA	163.9
MC027	09/15/11	AA	160	.5	09/21/11	AA	162.9
MC066	09/15/11	AA	160	.5	09/21/11	AA	163.1
MC086	09/15/11	AA	160	.5	09/21/11	AA	168
MC093	09/15/11	AA	160	.5	09/21/11	AA	164
MC108	09/15/11	AA	160	.5	09/21/11	AA	162
MC144	09/15/11	AA	160	.5	09/21/11	AA	146.6

Accutest Bottle Order(s):
AA/9-15-11/FUSS&O/WOON MID SCH

Prep Date	Room Temp(F)	Bar Pres "Hg
09/15/11	70	29.92

New England ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSJ1059-MB	J19957.D	1	10/01/11	AA	n/a	n/a	MSJ1059

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-3, MC3739-4

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.50	ppbv		ND	1.2	ug/m3
106-99-0	1,3-Butadiene	ND	0.50	ppbv		ND	1.1	ug/m3
71-43-2	Benzene	ND	0.50	ppbv		ND	1.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.50	ppbv		ND	3.3	ug/m3
75-25-2	Bromoform	ND	0.50	ppbv		ND	5.2	ug/m3
74-83-9	Bromomethane	ND	0.50	ppbv		ND	1.9	ug/m3
593-60-2	Bromoethene	ND	0.50	ppbv		ND	2.2	ug/m3
100-44-7	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	Carbon disulfide	ND	0.50	ppbv		ND	1.6	ug/m3
108-90-7	Chlorobenzene	ND	0.50	ppbv		ND	2.3	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.50	ppbv		ND	2.4	ug/m3
74-87-3	Chloromethane	ND	0.50	ppbv		ND	1.0	ug/m3
107-05-1	3-Chloropropene	ND	0.50	ppbv		ND	1.6	ug/m3
95-49-8	2-Chlorotoluene	ND	0.50	ppbv		ND	2.6	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.50	ppbv		ND	1.7	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.50	ppbv		ND	3.8	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.50	ppbv		ND	2.3	ug/m3
123-91-1	1,4-Dioxane	ND	0.50	ppbv		ND	1.8	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.50	ppbv		ND	2.5	ug/m3
124-48-1	Dibromochloromethane	ND	0.50	ppbv		ND	4.3	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.50	ppbv		ND	2.2	ug/m3
141-78-6	Ethyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
622-96-8	4-Ethyltoluene	ND	0.50	ppbv		ND	2.5	ug/m3

Method Blank Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSJ1059-MB	J19957.D	1	10/01/11	AA	n/a	n/a	MSJ1059

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-3, MC3739-4

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.50	ppbv		ND	3.8	ug/m3
76-14-2	Freon 114	ND	0.50	ppbv		ND	3.5	ug/m3
142-82-5	Heptane	ND	0.50	ppbv		ND	2.0	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.50	ppbv		ND	5.3	ug/m3
110-54-3	Hexane	ND	0.50	ppbv		ND	1.8	ug/m3
591-78-6	2-Hexanone	ND	0.50	ppbv		ND	2.0	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.50	ppbv		ND	1.2	ug/m3
75-09-2	Methylene chloride	ND	0.50	ppbv		ND	1.7	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.50	ppbv		ND	1.5	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.50	ppbv		ND	2.0	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	ppbv		ND	1.8	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.50	ppbv		ND	2.1	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ppbv		ND	3.7	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.50	ppbv		ND	2.3	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.50	ppbv		ND	1.5	ug/m3
127-18-4	Tetrachloroethylene	ND	0.20	ppbv		ND	1.4	ug/m3
109-99-9	Tetrahydrofuran	ND	0.50	ppbv		ND	1.5	ug/m3
108-88-3	Toluene	ND	0.50	ppbv		ND	1.9	ug/m3
79-01-6	Trichloroethylene	ND	0.20	ppbv		ND	1.1	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.50	ppbv		ND	2.8	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
	m,p-Xylene	ND	0.50	ppbv		ND	2.2	ug/m3
95-47-6	o-Xylene	ND	0.50	ppbv		ND	2.2	ug/m3
1330-20-7	Xylenes (total)	ND	0.50	ppbv		ND	2.2	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	83%	50-129%

Method Blank Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSJ1060-MB	J19981.D	1	10/03/11	AA	n/a	n/a	MSJ1060

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-2, MC3739-5, MC3739-7, MC3739-8

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.50	ppbv		ND	1.2	ug/m3
106-99-0	1,3-Butadiene	ND	0.50	ppbv		ND	1.1	ug/m3
71-43-2	Benzene	ND	0.50	ppbv		ND	1.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.50	ppbv		ND	3.3	ug/m3
75-25-2	Bromoform	ND	0.50	ppbv		ND	5.2	ug/m3
74-83-9	Bromomethane	ND	0.50	ppbv		ND	1.9	ug/m3
593-60-2	Bromoethene	ND	0.50	ppbv		ND	2.2	ug/m3
100-44-7	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	Carbon disulfide	ND	0.50	ppbv		ND	1.6	ug/m3
108-90-7	Chlorobenzene	ND	0.50	ppbv		ND	2.3	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.50	ppbv		ND	2.4	ug/m3
74-87-3	Chloromethane	ND	0.50	ppbv		ND	1.0	ug/m3
107-05-1	3-Chloropropene	ND	0.50	ppbv		ND	1.6	ug/m3
95-49-8	2-Chlorotoluene	ND	0.50	ppbv		ND	2.6	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.50	ppbv		ND	1.7	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.50	ppbv		ND	3.8	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.50	ppbv		ND	2.3	ug/m3
123-91-1	1,4-Dioxane	ND	0.50	ppbv		ND	1.8	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.50	ppbv		ND	2.5	ug/m3
124-48-1	Dibromochloromethane	ND	0.50	ppbv		ND	4.3	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.50	ppbv		ND	2.2	ug/m3
141-78-6	Ethyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
622-96-8	4-Ethyltoluene	ND	0.50	ppbv		ND	2.5	ug/m3

Method Blank Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSJ1060-MB	J19981.D	1	10/03/11	AA	n/a	n/a	MSJ1060

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-2, MC3739-5, MC3739-7, MC3739-8

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.50	ppbv		ND	3.8	ug/m3
76-14-2	Freon 114	ND	0.50	ppbv		ND	3.5	ug/m3
142-82-5	Heptane	ND	0.50	ppbv		ND	2.0	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.50	ppbv		ND	5.3	ug/m3
110-54-3	Hexane	ND	0.50	ppbv		ND	1.8	ug/m3
591-78-6	2-Hexanone	ND	0.50	ppbv		ND	2.0	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.50	ppbv		ND	1.2	ug/m3
75-09-2	Methylene chloride	ND	0.50	ppbv		ND	1.7	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.50	ppbv		ND	1.5	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.50	ppbv		ND	2.0	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	ppbv		ND	1.8	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.50	ppbv		ND	2.1	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ppbv		ND	3.7	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.50	ppbv		ND	2.3	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.50	ppbv		ND	1.5	ug/m3
127-18-4	Tetrachloroethylene	ND	0.20	ppbv		ND	1.4	ug/m3
109-99-9	Tetrahydrofuran	ND	0.50	ppbv		ND	1.5	ug/m3
108-88-3	Toluene	ND	0.50	ppbv		ND	1.9	ug/m3
79-01-6	Trichloroethylene	ND	0.20	ppbv		ND	1.1	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.50	ppbv		ND	2.8	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
	m,p-Xylene	ND	0.50	ppbv		ND	2.2	ug/m3
95-47-6	o-Xylene	ND	0.50	ppbv		ND	2.2	ug/m3
1330-20-7	Xylenes (total)	ND	0.50	ppbv		ND	2.2	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	91%	50-129%

Method Blank Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSJ1061-MB	J20007.D	1	10/04/11	AA	n/a	n/a	MSJ1061

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-1, MC3739-6

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.50	ppbv		ND	1.2	ug/m3
106-99-0	1,3-Butadiene	ND	0.50	ppbv		ND	1.1	ug/m3
71-43-2	Benzene	ND	0.50	ppbv		ND	1.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.50	ppbv		ND	3.3	ug/m3
75-25-2	Bromoform	ND	0.50	ppbv		ND	5.2	ug/m3
74-83-9	Bromomethane	ND	0.50	ppbv		ND	1.9	ug/m3
593-60-2	Bromoethene	ND	0.50	ppbv		ND	2.2	ug/m3
100-44-7	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	Carbon disulfide	ND	0.50	ppbv		ND	1.6	ug/m3
108-90-7	Chlorobenzene	ND	0.50	ppbv		ND	2.3	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.50	ppbv		ND	2.4	ug/m3
74-87-3	Chloromethane	ND	0.50	ppbv		ND	1.0	ug/m3
107-05-1	3-Chloropropene	ND	0.50	ppbv		ND	1.6	ug/m3
95-49-8	2-Chlorotoluene	ND	0.50	ppbv		ND	2.6	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.50	ppbv		ND	1.7	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.50	ppbv		ND	3.8	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.50	ppbv		ND	2.3	ug/m3
123-91-1	1,4-Dioxane	ND	0.50	ppbv		ND	1.8	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.50	ppbv		ND	2.5	ug/m3
124-48-1	Dibromochloromethane	ND	0.50	ppbv		ND	4.3	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.50	ppbv		ND	2.2	ug/m3
141-78-6	Ethyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
622-96-8	4-Ethyltoluene	ND	0.50	ppbv		ND	2.5	ug/m3

Method Blank Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSJ1061-MB	J20007.D	1	10/04/11	AA	n/a	n/a	MSJ1061

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-1, MC3739-6

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.50	ppbv		ND	3.8	ug/m3
76-14-2	Freon 114	ND	0.50	ppbv		ND	3.5	ug/m3
142-82-5	Heptane	ND	0.50	ppbv		ND	2.0	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.50	ppbv		ND	5.3	ug/m3
110-54-3	Hexane	ND	0.50	ppbv		ND	1.8	ug/m3
591-78-6	2-Hexanone	ND	0.50	ppbv		ND	2.0	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.50	ppbv		ND	1.2	ug/m3
75-09-2	Methylene chloride	ND	0.50	ppbv		ND	1.7	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.50	ppbv		ND	1.5	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.50	ppbv		ND	2.0	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	ppbv		ND	1.8	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.50	ppbv		ND	2.1	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ppbv		ND	3.7	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.50	ppbv		ND	2.3	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.50	ppbv		ND	1.5	ug/m3
127-18-4	Tetrachloroethylene	ND	0.20	ppbv		ND	1.4	ug/m3
109-99-9	Tetrahydrofuran	ND	0.50	ppbv		ND	1.5	ug/m3
108-88-3	Toluene	ND	0.50	ppbv		ND	1.9	ug/m3
79-01-6	Trichloroethylene	ND	0.20	ppbv		ND	1.1	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.50	ppbv		ND	2.8	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
	m,p-Xylene	ND	0.50	ppbv		ND	2.2	ug/m3
95-47-6	o-Xylene	ND	0.50	ppbv		ND	2.2	ug/m3
1330-20-7	Xylenes (total)	ND	0.50	ppbv		ND	2.2	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	96%	50-129%

Method Blank Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSQ809-MB	Q19186.D	1	09/15/11	AA	n/a	n/a	MSQ809

The QC reported here applies to the following samples: **Method:** TO-15

MSQ809-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.50	ppbv		ND	1.2	ug/m3
106-99-0	1,3-Butadiene	ND	0.50	ppbv		ND	1.1	ug/m3
71-43-2	Benzene	ND	0.50	ppbv		ND	1.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.50	ppbv		ND	3.3	ug/m3
75-25-2	Bromoform	ND	0.50	ppbv		ND	5.2	ug/m3
74-83-9	Bromomethane	ND	0.50	ppbv		ND	1.9	ug/m3
593-60-2	Bromoethene	ND	0.50	ppbv		ND	2.2	ug/m3
100-44-7	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	Carbon disulfide	ND	0.50	ppbv		ND	1.6	ug/m3
108-90-7	Chlorobenzene	ND	0.50	ppbv		ND	2.3	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.50	ppbv		ND	2.4	ug/m3
74-87-3	Chloromethane	ND	0.50	ppbv		ND	1.0	ug/m3
107-05-1	3-Chloropropene	ND	0.50	ppbv		ND	1.6	ug/m3
95-49-8	2-Chlorotoluene	ND	0.50	ppbv		ND	2.6	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.50	ppbv		ND	1.7	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.50	ppbv		ND	3.8	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.50	ppbv		ND	2.3	ug/m3
123-91-1	1,4-Dioxane	ND	0.50	ppbv		ND	1.8	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.50	ppbv		ND	2.5	ug/m3
124-48-1	Dibromochloromethane	ND	0.50	ppbv		ND	4.3	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.50	ppbv		ND	2.2	ug/m3
141-78-6	Ethyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
622-96-8	4-Ethyltoluene	ND	0.50	ppbv		ND	2.5	ug/m3

Method Blank Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSQ809-MB	Q19186.D	1	09/15/11	AA	n/a	n/a	MSQ809

The QC reported here applies to the following samples: **Method:** TO-15

MSQ809-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.50	ppbv		ND	3.8	ug/m3
76-14-2	Freon 114	ND	0.50	ppbv		ND	3.5	ug/m3
142-82-5	Heptane	ND	0.50	ppbv		ND	2.0	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.50	ppbv		ND	5.3	ug/m3
110-54-3	Hexane	ND	0.50	ppbv		ND	1.8	ug/m3
591-78-6	2-Hexanone	ND	0.50	ppbv		ND	2.0	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.50	ppbv		ND	1.2	ug/m3
75-09-2	Methylene chloride	ND	0.50	ppbv		ND	1.7	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.50	ppbv		ND	1.5	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.50	ppbv		ND	2.0	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	ppbv		ND	1.8	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.50	ppbv		ND	2.1	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ppbv		ND	3.7	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.50	ppbv		ND	2.3	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.50	ppbv		ND	1.5	ug/m3
127-18-4	Tetrachloroethylene	ND	0.20	ppbv		ND	1.4	ug/m3
109-99-9	Tetrahydrofuran	ND	0.50	ppbv		ND	1.5	ug/m3
108-88-3	Toluene	ND	0.50	ppbv		ND	1.9	ug/m3
79-01-6	Trichloroethylene	ND	0.20	ppbv		ND	1.1	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.50	ppbv		ND	2.8	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
	m,p-Xylene	ND	0.50	ppbv		ND	2.2	ug/m3
95-47-6	o-Xylene	ND	0.50	ppbv		ND	2.2	ug/m3
1330-20-7	Xylenes (total)	ND	0.50	ppbv		ND	2.2	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	73%	50-129%

Blank Spike Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSJ1059-BS	J19956A.D	1	10/01/11	AA	n/a	n/a	MSJ1059

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-3, MC3739-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	Limits
67-64-1	Acetone	10	9.7	97	70-130
106-99-0	1,3-Butadiene	10	11.4	114	70-130
71-43-2	Benzene	10	10.2	102	70-130
75-27-4	Bromodichloromethane	10	11.8	118	70-130
75-25-2	Bromoform	10	10	100	70-130
74-83-9	Bromomethane	10	10.1	101	70-130
593-60-2	Bromoethene	10	9.8	98	70-130
100-44-7	Benzyl Chloride	10	18.4	184* [a]	70-130
75-15-0	Carbon disulfide	10	10.4	104	70-130
108-90-7	Chlorobenzene	10	9.9	99	70-130
75-00-3	Chloroethane	10	10.2	102	70-130
67-66-3	Chloroform	10	10.2	102	70-130
74-87-3	Chloromethane	10	10.4	104	70-130
107-05-1	3-Chloropropene	10	12.0	120	70-130
95-49-8	2-Chlorotoluene	10	10.4	104	70-130
56-23-5	Carbon tetrachloride	10	9.8	98	70-130
110-82-7	Cyclohexane	10	10.5	105	70-130
75-34-3	1,1-Dichloroethane	10	10.6	106	70-130
75-35-4	1,1-Dichloroethylene	10	9.3	93	70-130
106-93-4	1,2-Dibromoethane	10	11.2	112	70-130
107-06-2	1,2-Dichloroethane	10	9.9	99	70-130
78-87-5	1,2-Dichloropropane	10	10.5	105	70-130
123-91-1	1,4-Dioxane	10	7.3	73	70-130
75-71-8	Dichlorodifluoromethane	10	10.7	107	70-130
124-48-1	Dibromochloromethane	10	10.4	104	70-130
156-60-5	trans-1,2-Dichloroethylene	10	9.4	94	70-130
156-59-2	cis-1,2-Dichloroethylene	10	9.6	96	70-130
10061-01-5	cis-1,3-Dichloropropene	10	11.1	111	70-130
541-73-1	m-Dichlorobenzene	10	11.8	118	70-130
95-50-1	o-Dichlorobenzene	10	9.0	90	70-130
106-46-7	p-Dichlorobenzene	10	12.1	121	70-130
10061-02-6	trans-1,3-Dichloropropene	10	13.2	132* [a]	70-130
64-17-5	Ethanol	10	9.2	92	70-130
100-41-4	Ethylbenzene	10	9.7	97	70-130
141-78-6	Ethyl Acetate	10	10.5	105	70-130
622-96-8	4-Ethyltoluene	10	10.5	105	70-130

Blank Spike Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSJ1059-BS	J19956A.D	1	10/01/11	AA	n/a	n/a	MSJ1059

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-3, MC3739-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	Limits
76-13-1	Freon 113	10	9.1	91	70-130
76-14-2	Freon 114	10	11.6	116	70-130
142-82-5	Heptane	10	12.1	121	70-130
87-68-3	Hexachlorobutadiene	10	9.2	92	70-130
110-54-3	Hexane	10	9.2	92	70-130
591-78-6	2-Hexanone	10	9.0	90	70-130
67-63-0	Isopropyl Alcohol	10	9.0	90	70-130
75-09-2	Methylene chloride	10	8.5	85	70-130
78-93-3	Methyl ethyl ketone	10	10.4	104	70-130
108-10-1	Methyl Isobutyl Ketone	10	9.9	99	70-130
1634-04-4	Methyl Tert Butyl Ether	10	8.7	87	70-130
115-07-1	Propylene	10	10.4	104	70-130
100-42-5	Styrene	10	12.1	121	70-130
71-55-6	1,1,1-Trichloroethane	10	10.2	102	70-130
79-34-5	1,1,2,2-Tetrachloroethane	10	9.8	98	70-130
79-00-5	1,1,2-Trichloroethane	10	10.5	105	70-130
120-82-1	1,2,4-Trichlorobenzene	10	13.9	139* [a]	70-130
95-63-6	1,2,4-Trimethylbenzene	10	10.1	101	70-130
108-67-8	1,3,5-Trimethylbenzene	10	9.8	98	70-130
540-84-1	2,2,4-Trimethylpentane	10	12.2	122	70-130
75-65-0	Tertiary Butyl Alcohol	10	8.0	80	70-130
127-18-4	Tetrachloroethylene	10	9.2	92	70-130
109-99-9	Tetrahydrofuran	10	9.5	95	70-130
108-88-3	Toluene	10	9.5	95	70-130
79-01-6	Trichloroethylene	10	11.4	114	70-130
75-69-4	Trichlorofluoromethane	10	10.6	106	70-130
75-01-4	Vinyl chloride	10	10.2	102	70-130
108-05-4	Vinyl Acetate	10	10.6	106	70-130
	m,p-Xylene	20	19.5	98	70-130
95-47-6	o-Xylene	10	9.7	97	70-130
1330-20-7	Xylenes (total)	30	29.2	97	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	104%	50-129%

Blank Spike Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSJ1059-BS	J19956A.D	1	10/01/11	AA	n/a	n/a	MSJ1059

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-3, MC3739-4

(a) Outside control limits. Associated samples are non-detect for this compound.

Blank Spike Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSJ1060-BS	J19980A.D	1	10/03/11	AA	n/a	n/a	MSJ1060

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-2, MC3739-5, MC3739-7, MC3739-8

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	Limits
67-64-1	Acetone	10	9.7	97	70-130
106-99-0	1,3-Butadiene	10	10.1	101	70-130
71-43-2	Benzene	10	9.1	91	70-130
75-27-4	Bromodichloromethane	10	11.0	110	70-130
75-25-2	Bromoform	10	11.6	116	70-130
74-83-9	Bromomethane	10	10.3	103	70-130
593-60-2	Bromoethene	10	10.6	106	70-130
100-44-7	Benzyl Chloride	10	21.8	218* [a]	70-130
75-15-0	Carbon disulfide	10	11.2	112	70-130
108-90-7	Chlorobenzene	10	10.2	102	70-130
75-00-3	Chloroethane	10	9.6	96	70-130
67-66-3	Chloroform	10	9.8	98	70-130
74-87-3	Chloromethane	10	9.7	97	70-130
107-05-1	3-Chloropropene	10	9.0	90	70-130
95-49-8	2-Chlorotoluene	10	10.6	106	70-130
56-23-5	Carbon tetrachloride	10	10.4	104	70-130
110-82-7	Cyclohexane	10	9.6	96	70-130
75-34-3	1,1-Dichloroethane	10	8.9	89	70-130
75-35-4	1,1-Dichloroethylene	10	9.1	91	70-130
106-93-4	1,2-Dibromoethane	10	11.6	116	70-130
107-06-2	1,2-Dichloroethane	10	9.7	97	70-130
78-87-5	1,2-Dichloropropane	10	9.3	93	70-130
123-91-1	1,4-Dioxane	10	9.7	97	70-130
75-71-8	Dichlorodifluoromethane	10	11.2	112	70-130
124-48-1	Dibromochloromethane	10	11.2	112	70-130
156-60-5	trans-1,2-Dichloroethylene	10	10.6	106	70-130
156-59-2	cis-1,2-Dichloroethylene	10	9.0	90	70-130
10061-01-5	cis-1,3-Dichloropropene	10	11.4	114	70-130
541-73-1	m-Dichlorobenzene	10	13.1	131* [a]	70-130
95-50-1	o-Dichlorobenzene	10	10.5	105	70-130
106-46-7	p-Dichlorobenzene	10	13.7	137* [a]	70-130
10061-02-6	trans-1,3-Dichloropropene	10	11.9	119	70-130
64-17-5	Ethanol	10	7.0	70	70-130
100-41-4	Ethylbenzene	10	10	100	70-130
141-78-6	Ethyl Acetate	10	11.2	112	70-130
622-96-8	4-Ethyltoluene	10	11.1	111	70-130

Blank Spike Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSJ1060-BS	J19980A.D	1	10/03/11	AA	n/a	n/a	MSJ1060

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-2, MC3739-5, MC3739-7, MC3739-8

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	Limits
76-13-1	Freon 113	10	9.6	96	70-130
76-14-2	Freon 114	10	11.1	111	70-130
142-82-5	Heptane	10	10.6	106	70-130
87-68-3	Hexachlorobutadiene	10	13.6	136* [a]	70-130
110-54-3	Hexane	10	8.8	88	70-130
591-78-6	2-Hexanone	10	11.2	112	70-130
67-63-0	Isopropyl Alcohol	10	9.3	93	70-130
75-09-2	Methylene chloride	10	8.0	80	70-130
78-93-3	Methyl ethyl ketone	10	10.2	102	70-130
108-10-1	Methyl Isobutyl Ketone	10	10.2	102	70-130
1634-04-4	Methyl Tert Butyl Ether	10	10.3	103	70-130
115-07-1	Propylene	10	9.9	99	70-130
100-42-5	Styrene	10	12.3	123	70-130
71-55-6	1,1,1-Trichloroethane	10	9.8	98	70-130
79-34-5	1,1,2,2-Tetrachloroethane	10	9.2	92	70-130
79-00-5	1,1,2-Trichloroethane	10	10.0	100	70-130
120-82-1	1,2,4-Trichlorobenzene	10	23.6	236* [a]	70-130
95-63-6	1,2,4-Trimethylbenzene	10	10.4	104	70-130
108-67-8	1,3,5-Trimethylbenzene	10	10.2	102	70-130
540-84-1	2,2,4-Trimethylpentane	10	9.7	97	70-130
75-65-0	Tertiary Butyl Alcohol	10	10.4	104	70-130
127-18-4	Tetrachloroethylene	10	9.6	96	70-130
109-99-9	Tetrahydrofuran	10	9.6	96	70-130
108-88-3	Toluene	10	9.1	91	70-130
79-01-6	Trichloroethylene	10	10.2	102	70-130
75-69-4	Trichlorofluoromethane	10	10.6	106	70-130
75-01-4	Vinyl chloride	10	9.9	99	70-130
108-05-4	Vinyl Acetate	10	9.3	93	70-130
	m,p-Xylene	20	20.0	100	70-130
95-47-6	o-Xylene	10	10.1	101	70-130
1330-20-7	Xylenes (total)	30	30.1	100	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	104%	50-129%

Blank Spike Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSJ1060-BS	J19980A.D	1	10/03/11	AA	n/a	n/a	MSJ1060

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-2, MC3739-5, MC3739-7, MC3739-8

(a) Outside control limits. Associated samples are non-detect for this compound.

Blank Spike Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSJ1061-BS	J20005A.D	1	10/04/11	AA	n/a	n/a	MSJ1061

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-1, MC3739-6

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	Limits
67-64-1	Acetone	10	9.3	93	70-130
106-99-0	1,3-Butadiene	10	11.0	110	70-130
71-43-2	Benzene	10	9.0	90	70-130
75-27-4	Bromodichloromethane	10	10.7	107	70-130
75-25-2	Bromoform	10	10.6	106	70-130
74-83-9	Bromomethane	10	10.8	108	70-130
593-60-2	Bromoethene	10	11.2	112	70-130
100-44-7	Benzyl Chloride	10	18.1	181* [a]	70-130
75-15-0	Carbon disulfide	10	12.3	123	70-130
108-90-7	Chlorobenzene	10	9.9	99	70-130
75-00-3	Chloroethane	10	10.7	107	70-130
67-66-3	Chloroform	10	9.7	97	70-130
74-87-3	Chloromethane	10	10.2	102	70-130
107-05-1	3-Chloropropene	10	10.7	107	70-130
95-49-8	2-Chlorotoluene	10	9.8	98	70-130
56-23-5	Carbon tetrachloride	10	9.9	99	70-130
110-82-7	Cyclohexane	10	9.9	99	70-130
75-34-3	1,1-Dichloroethane	10	9.5	95	70-130
75-35-4	1,1-Dichloroethylene	10	9.9	99	70-130
106-93-4	1,2-Dibromoethane	10	10.9	109	70-130
107-06-2	1,2-Dichloroethane	10	9.2	92	70-130
78-87-5	1,2-Dichloropropane	10	9.0	90	70-130
123-91-1	1,4-Dioxane	10	8.5	85	70-130
75-71-8	Dichlorodifluoromethane	10	10.9	109	70-130
124-48-1	Dibromochloromethane	10	10.8	108	70-130
156-60-5	trans-1,2-Dichloroethylene	10	10.8	108	70-130
156-59-2	cis-1,2-Dichloroethylene	10	9.2	92	70-130
10061-01-5	cis-1,3-Dichloropropene	10	10.6	106	70-130
541-73-1	m-Dichlorobenzene	10	11.8	118	70-130
95-50-1	o-Dichlorobenzene	10	9.2	92	70-130
106-46-7	p-Dichlorobenzene	10	12.1	121	70-130
10061-02-6	trans-1,3-Dichloropropene	10	10.7	107	70-130
64-17-5	Ethanol	10	7.1	71	70-130
100-41-4	Ethylbenzene	10	9.5	95	70-130
141-78-6	Ethyl Acetate	10	10.4	104	70-130
622-96-8	4-Ethyltoluene	10	10.5	105	70-130

Blank Spike Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSJ1061-BS	J20005A.D	1	10/04/11	AA	n/a	n/a	MSJ1061

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-1, MC3739-6

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	Limits
76-13-1	Freon 113	10	9.4	94	70-130
76-14-2	Freon 114	10	11.7	117	70-130
142-82-5	Heptane	10	10.3	103	70-130
87-68-3	Hexachlorobutadiene	10	10.2	102	70-130
110-54-3	Hexane	10	9.0	90	70-130
591-78-6	2-Hexanone	10	9.4	94	70-130
67-63-0	Isopropyl Alcohol	10	8.6	86	70-130
75-09-2	Methylene chloride	10	8.4	84	70-130
78-93-3	Methyl ethyl ketone	10	9.7	97	70-130
108-10-1	Methyl Isobutyl Ketone	10	9.4	94	70-130
1634-04-4	Methyl Tert Butyl Ether	10	9.4	94	70-130
115-07-1	Propylene	10	10.3	103	70-130
100-42-5	Styrene	10	11.6	116	70-130
71-55-6	1,1,1-Trichloroethane	10	9.7	97	70-130
79-34-5	1,1,2,2-Tetrachloroethane	10	9.0	90	70-130
79-00-5	1,1,2-Trichloroethane	10	9.5	95	70-130
120-82-1	1,2,4-Trichlorobenzene	10	18.2	182* [a]	70-130
95-63-6	1,2,4-Trimethylbenzene	10	9.6	96	70-130
108-67-8	1,3,5-Trimethylbenzene	10	9.5	95	70-130
540-84-1	2,2,4-Trimethylpentane	10	9.8	98	70-130
75-65-0	Tertiary Butyl Alcohol	10	9.2	92	70-130
127-18-4	Tetrachloroethylene	10	9.5	95	70-130
109-99-9	Tetrahydrofuran	10	9.2	92	70-130
108-88-3	Toluene	10	8.6	86	70-130
79-01-6	Trichloroethylene	10	10.2	102	70-130
75-69-4	Trichlorofluoromethane	10	11.0	110	70-130
75-01-4	Vinyl chloride	10	10.2	102	70-130
108-05-4	Vinyl Acetate	10	9.2	92	70-130
	m,p-Xylene	20	19.1	96	70-130
95-47-6	o-Xylene	10	9.4	94	70-130
1330-20-7	Xylenes (total)	30	28.5	95	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	105%	50-129%

Blank Spike Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSJ1061-BS	J20005A.D	1	10/04/11	AA	n/a	n/a	MSJ1061

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-1, MC3739-6

(a) Outside control limits. Associated samples are non-detect for this compound.

Blank Spike Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSQ809-BS	Q19184.D	1	09/15/11	AA	n/a	n/a	MSQ809

The QC reported here applies to the following samples: **Method:** TO-15

MSQ809-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	Limits
67-64-1	Acetone	10	8.4	84	70-130
106-99-0	1,3-Butadiene	10	8.2	82	70-130
71-43-2	Benzene	10	9.1	91	70-130
75-27-4	Bromodichloromethane	10	10.2	102	70-130
75-25-2	Bromoform	10	14.0	140* [a]	70-130
74-83-9	Bromomethane	10	9.1	91	70-130
593-60-2	Bromoethene	10	9.3	93	70-130
100-44-7	Benzyl Chloride	10	10.8	108	70-130
75-15-0	Carbon disulfide	10	7.7	77	70-130
108-90-7	Chlorobenzene	10	10.4	104	70-130
75-00-3	Chloroethane	10	8.0	80	70-130
67-66-3	Chloroform	10	10.4	104	70-130
74-87-3	Chloromethane	10	7.2	72	70-130
107-05-1	3-Chloropropene	10	10.0	100	70-130
95-49-8	2-Chlorotoluene	10	9.7	97	70-130
56-23-5	Carbon tetrachloride	10	12.7	127	70-130
110-82-7	Cyclohexane	10	8.6	86	70-130
75-34-3	1,1-Dichloroethane	10	8.7	87	70-130
75-35-4	1,1-Dichloroethylene	10	9.4	94	70-130
106-93-4	1,2-Dibromoethane	10	10.7	107	70-130
107-06-2	1,2-Dichloroethane	10	10.3	103	70-130
78-87-5	1,2-Dichloropropane	10	8.2	82	70-130
123-91-1	1,4-Dioxane	10	9.3	93	70-130
75-71-8	Dichlorodifluoromethane	10	9.3	93	70-130
124-48-1	Dibromochloromethane	10	12.4	124	70-130
156-60-5	trans-1,2-Dichloroethylene	10	8.6	86	70-130
156-59-2	cis-1,2-Dichloroethylene	10	9.4	94	70-130
10061-01-5	cis-1,3-Dichloropropene	10	9.0	90	70-130
541-73-1	m-Dichlorobenzene	10	11.7	117	70-130
95-50-1	o-Dichlorobenzene	10	11.1	111	70-130
106-46-7	p-Dichlorobenzene	10	12.0	120	70-130
10061-02-6	trans-1,3-Dichloropropene	10	11.7	117	70-130
64-17-5	Ethanol	10	8.3	83	70-130
100-41-4	Ethylbenzene	10	9.3	93	70-130
141-78-6	Ethyl Acetate	10	7.4	74	70-130
622-96-8	4-Ethyltoluene	10	9.9	99	70-130

Blank Spike Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSQ809-BS	Q19184.D	1	09/15/11	AA	n/a	n/a	MSQ809

The QC reported here applies to the following samples: **Method:** TO-15

MSQ809-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	Limits
76-13-1	Freon 113	10	12.2	122	70-130
76-14-2	Freon 114	10	10.6	106	70-130
142-82-5	Heptane	10	8.0	80	70-130
87-68-3	Hexachlorobutadiene	10	27.4	274* [a]	70-130
110-54-3	Hexane	10	7.1	71	70-130
591-78-6	2-Hexanone	10	9.9	99	70-130
67-63-0	Isopropyl Alcohol	10	8.8	88	70-130
75-09-2	Methylene chloride	10	9.1	91	70-130
78-93-3	Methyl ethyl ketone	10	7.8	78	70-130
108-10-1	Methyl Isobutyl Ketone	10	9.1	91	70-130
1634-04-4	Methyl Tert Butyl Ether	10	8.6	86	70-130
115-07-1	Propylene	10	7.3	73	70-130
100-42-5	Styrene	10	10.4	104	70-130
71-55-6	1,1,1-Trichloroethane	10	11.3	113	70-130
79-34-5	1,1,2,2-Tetrachloroethane	10	8.3	83	70-130
79-00-5	1,1,2-Trichloroethane	10	8.8	88	70-130
120-82-1	1,2,4-Trichlorobenzene	10	12.7	127	70-130
95-63-6	1,2,4-Trimethylbenzene	10	10.3	103	70-130
108-67-8	1,3,5-Trimethylbenzene	10	9.6	96	70-130
540-84-1	2,2,4-Trimethylpentane	10	8.1	81	70-130
75-65-0	Tertiary Butyl Alcohol	10	8.9	89	70-130
127-18-4	Tetrachloroethylene	10	11.8	118	70-130
109-99-9	Tetrahydrofuran	10	7.7	77	70-130
108-88-3	Toluene	10	8.9	89	70-130
79-01-6	Trichloroethylene	10	9.7	97	70-130
75-69-4	Trichlorofluoromethane	10	12.0	120	70-130
75-01-4	Vinyl chloride	10	7.4	74	70-130
108-05-4	Vinyl Acetate	10	8.7	87	70-130
	m,p-Xylene	20	19.1	96	70-130
95-47-6	o-Xylene	10	9.9	99	70-130
1330-20-7	Xylenes (total)	30	29.0	97	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	120%	50-129%

Blank Spike Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSQ809-BS	Q19184.D	1	09/15/11	AA	n/a	n/a	MSQ809

The QC reported here applies to the following samples: **Method:** TO-15

MSQ809-SCC

(a) Outside control limits. Associated samples are non-detect for this compound.

Duplicate Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC3944-1DUP	J19964.D	5	10/01/11	AA	n/a	n/a	MSJ1059
MC3944-1	J19963.D	5	10/01/11	AA	n/a	n/a	MSJ1059

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-3, MC3739-4

CAS No.	Compound	MC3944-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone	4.0		3.9		3	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	ND		ND		nc	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	20
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	ND		ND		nc	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	ND		ND		nc	25
75-34-3	1,1-Dichloroethane	9.0		9.6		6	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	ND		ND		nc	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	13.2		13.7		4	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	ND		ND		nc	25
100-41-4	Ethylbenzene	ND		ND		nc	25
141-78-6	Ethyl Acetate	ND		ND		nc	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

Duplicate Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC3944-1DUP	J19964.D	5	10/01/11	AA	n/a	n/a	MSJ1059
MC3944-1	J19963.D	5	10/01/11	AA	n/a	n/a	MSJ1059

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-3, MC3739-4

CAS No.	Compound	MC3944-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	1.3		1.3	J	0	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	ND		ND		nc	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	ND		ND		nc	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	ND		ND		nc	25
75-09-2	Methylene chloride	ND		ND		nc	25
78-93-3	Methyl ethyl ketone	ND		ND		nc	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
115-07-1	Propylene	ND		ND		nc	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	6.4		7.0		9	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	ND		ND		nc	25
127-18-4	Tetrachloroethylene	93.4		97.1		4	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	ND		ND		nc	25
79-01-6	Trichloroethylene	41.0		45.5		10	25
75-69-4	Trichlorofluoromethane	ND		ND		nc	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	ND		ND		nc	25
95-47-6	o-Xylene	ND		ND		nc	25
1330-20-7	Xylenes (total)	ND		ND		nc	25

CAS No.	Surrogate Recoveries	DUP	MC3944-1	Limits
460-00-4	4-Bromofluorobenzene	107%	113%	50-129%

Duplicate Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC3739-7DUP	J19986.D	1	10/03/11	AA	n/a	n/a	MSJ1060
MC3739-7	J19984.D	1	10/03/11	AA	n/a	n/a	MSJ1060

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-2, MC3739-5, MC3739-7, MC3739-8

CAS No.	Compound	MC3739-7 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone	16.8		13.7		20	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	0.79		0.64		21	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	20
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	1.0		0.86		15	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	ND		ND		nc	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	ND		ND		nc	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.52		0.47	J	10	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	24.7		16.5		40* [a]	25
100-41-4	Ethylbenzene	0.38		0.32	J	17	25
141-78-6	Ethyl Acetate	ND		ND		nc	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

Duplicate Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC3739-7DUP	J19986.D	1	10/03/11	AA	n/a	n/a	MSJ1060
MC3739-7	J19984.D	1	10/03/11	AA	n/a	n/a	MSJ1060

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-2, MC3739-5, MC3739-7, MC3739-8

CAS No.	Compound	MC3739-7 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	ND		ND		nc	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	ND		ND		nc	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	2.2		1.7		26* [a]	25
75-09-2	Methylene chloride	1.1		0.94		16	25
78-93-3	Methyl ethyl ketone	1.7		1.6		6	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
115-07-1	Propylene	1.8		1.5		18	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	0.20		0.17	J	16	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	0.38		0.34	J	11	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	0.26		0.21	J	21	25
75-65-0	Tertiary Butyl Alcohol	ND		ND		nc	25
127-18-4	Tetrachloroethylene	0.31		0.16	J	64* [a]	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	2.5		1.9		27* [a]	25
79-01-6	Trichloroethylene	ND		ND		nc	25
75-69-4	Trichlorofluoromethane	0.33		0.29	J	13	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	1.0		0.96		4	25
	m,p-Xylene	1.3		1.0		26* [a]	25
95-47-6	o-Xylene	0.44		0.33	J	29* [a]	25
1330-20-7	Xylenes (total)	1.7		1.4		19	25

CAS No.	Surrogate Recoveries	DUP	MC3739-7	Limits
460-00-4	4-Bromofluorobenzene	107%	102%	50-129%

Duplicate Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC3739-7DUP	J19986.D	1	10/03/11	AA	n/a	n/a	MSJ1060
MC3739-7	J19984.D	1	10/03/11	AA	n/a	n/a	MSJ1060

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-2, MC3739-5, MC3739-7, MC3739-8

(a) High RPD due to possible matrix interference and/or sample non-homogeneity.

Duplicate Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC4112-3DUP	J20022.D	1	10/05/11	AA	n/a	n/a	MSJ1061
MC4112-3	J20015.D	1	10/04/11	AA	n/a	n/a	MSJ1061

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-1, MC3739-6

CAS No.	Compound	MC4112-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone	10.9		14.2		26* [a]	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	ND		ND		nc	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	20
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	0.77		0.89		14	25
74-87-3	Chloromethane	0.39		0.55		34* [a]	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	ND		ND		nc	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.45		0.57		24	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	9.0		36.7		121* [a]	25
100-41-4	Ethylbenzene	ND		ND		nc	25
141-78-6	Ethyl Acetate	ND		ND		nc	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

Duplicate Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC4112-3DUP	J20022.D	1	10/05/11	AA	n/a	n/a	MSJ1061
MC4112-3	J20015.D	1	10/04/11	AA	n/a	n/a	MSJ1061

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-1, MC3739-6

CAS No.	Compound	MC4112-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	ND		ND		nc	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	0.48		0.55		14	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	ND		ND		nc	25
75-09-2	Methylene chloride	4.1		4.7		14	25
78-93-3	Methyl ethyl ketone	1.0		1.0		0	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
115-07-1	Propylene	ND		ND		nc	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	ND		ND		nc	25
127-18-4	Tetrachloroethylene	0.87		0.74		16	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	1.1		1.3		17	25
79-01-6	Trichloroethylene	ND		ND		nc	25
75-69-4	Trichlorofluoromethane	0.27		0.33	J	20	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	0.98		1.2		20	25
	m,p-Xylene	ND		ND		nc	25
95-47-6	o-Xylene	ND		ND		nc	25
1330-20-7	Xylenes (total)	ND		ND		nc	25

CAS No.	Surrogate Recoveries	DUP	MC4112-3	Limits
460-00-4	4-Bromofluorobenzene	107%	111%	50-129%

Duplicate Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC4112-3DUP	J20022.D	1	10/05/11	AA	n/a	n/a	MSJ1061
MC4112-3	J20015.D	1	10/04/11	AA	n/a	n/a	MSJ1061

The QC reported here applies to the following samples: **Method:** TO-15

MC3739-1, MC3739-6

(a) High RPD due to possible matrix interference and/or sample non-homogeneity.

Summa Cleaning Certification

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSQ809-SCC	Q19186A.D	1	09/15/11	AA	n/a	n/a	MSQ809

The QC reported here (Summa M010) applies to the following samples: **Method:** TO-15

Batch CP1093 cleaned 09/09/11: MC3739-1(M229), MC3739-2(M040), MC3739-3(M092), MC3739-4(M261), MC3739-5(M019), MC3739-6(M166), MC3739-7(M154), MC3739-8(M271)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.50	ppbv		ND	1.2	ug/m3
106-99-0	1,3-Butadiene	ND	0.50	ppbv		ND	1.1	ug/m3
71-43-2	Benzene	ND	0.50	ppbv		ND	1.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.50	ppbv		ND	3.3	ug/m3
75-25-2	Bromoform	ND	0.50	ppbv		ND	5.2	ug/m3
74-83-9	Bromomethane	ND	0.50	ppbv		ND	1.9	ug/m3
593-60-2	Bromoethene	ND	0.50	ppbv		ND	2.2	ug/m3
100-44-7	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	Carbon disulfide	ND	0.50	ppbv		ND	1.6	ug/m3
108-90-7	Chlorobenzene	ND	0.50	ppbv		ND	2.3	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.50	ppbv		ND	2.4	ug/m3
74-87-3	Chloromethane	ND	0.50	ppbv		ND	1.0	ug/m3
107-05-1	3-Chloropropene	ND	0.50	ppbv		ND	1.6	ug/m3
95-49-8	2-Chlorotoluene	ND	0.50	ppbv		ND	2.6	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.50	ppbv		ND	1.7	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.50	ppbv		ND	3.8	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.50	ppbv		ND	2.3	ug/m3
123-91-1	1,4-Dioxane	ND	0.50	ppbv		ND	1.8	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.50	ppbv		ND	2.5	ug/m3
124-48-1	Dibromochloromethane	ND	0.50	ppbv		ND	4.3	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.50	ppbv		ND	2.2	ug/m3
141-78-6	Ethyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
622-96-8	4-Ethyltoluene	ND	0.50	ppbv		ND	2.5	ug/m3

Summa Cleaning Certification

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSQ809-SCC	Q19186A.D	1	09/15/11	AA	n/a	n/a	MSQ809

The QC reported here (Summa M010) applies to the following samples: **Method:** TO-15

Batch CP1093 cleaned 09/09/11: MC3739-1(M229), MC3739-2(M040), MC3739-3(M092), MC3739-4(M261), MC3739-5(M019), MC3739-6(M166), MC3739-7(M154), MC3739-8(M271)

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.50	ppbv		ND	3.8	ug/m3
76-14-2	Freon 114	ND	0.50	ppbv		ND	3.5	ug/m3
142-82-5	Heptane	ND	0.50	ppbv		ND	2.0	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.50	ppbv		ND	5.3	ug/m3
110-54-3	Hexane	ND	0.50	ppbv		ND	1.8	ug/m3
591-78-6	2-Hexanone	ND	0.50	ppbv		ND	2.0	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.50	ppbv		ND	1.2	ug/m3
75-09-2	Methylene chloride	ND	0.50	ppbv		ND	1.7	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.50	ppbv		ND	1.5	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.50	ppbv		ND	2.0	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	ppbv		ND	1.8	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.50	ppbv		ND	2.1	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ppbv		ND	3.7	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.50	ppbv		ND	2.3	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.50	ppbv		ND	1.5	ug/m3
127-18-4	Tetrachloroethylene	ND	0.20	ppbv		ND	1.4	ug/m3
109-99-9	Tetrahydrofuran	ND	0.50	ppbv		ND	1.5	ug/m3
108-88-3	Toluene	ND	0.50	ppbv		ND	1.9	ug/m3
79-01-6	Trichloroethylene	ND	0.20	ppbv		ND	1.1	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.50	ppbv		ND	2.8	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
	m,p-Xylene	ND	0.50	ppbv		ND	2.2	ug/m3
95-47-6	o-Xylene	ND	0.50	ppbv		ND	2.2	ug/m3
1330-20-7	Xylenes (total)	ND	0.50	ppbv		ND	2.2	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	73%	50-129%

Volatile Surrogate Recovery Summary

Job Number: MC3739
Account: FORI Fuss & O'Neill RI
Project: Former Woonsocket M.S. Woonsocket, RI

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
MC3739-1	J20011.D	102.0
MC3739-2	J19995.D	103.0
MC3739-3	J19996.D	87.0
MC3739-3	J19967.D	108.0
MC3739-4	J19997.D	104.0
MC3739-4	J19968.D	109.0
MC3739-5	J19998.D	98.0
MC3739-6	J20010.D	87.0
MC3739-6	J20008.D	103.0
MC3739-7	J19984.D	102.0
MC3739-8	J19985.D	97.0
MC3739-7DUP	J19986.D	107.0
MC3944-1DUP	J19964.D	107.0
MC4112-3DUP	J20022.D	107.0
MSJ1059-BS	J19956A.D	104.0
MSJ1059-MB	J19957.D	83.0
MSJ1060-BS	J19980A.D	104.0
MSJ1060-MB	J19981.D	91.0
MSJ1061-BS	J20005A.D	105.0
MSJ1061-MB	J20007.D	96.0
MSQ809-SCC	Q19186A.D	73.0
MSQ809-BS	Q19184.D	120.0
MSQ809-MB	Q19186.D	73.0

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	50-129%