

April 28, 2021

Amber Wakley  
Grants & Marketing Specialist  
Town of Stafford  
1 Main Street  
Stafford, CT 06076

**RE: Report of Hazardous Building Materials Investigation  
Former Earl M. Witt School  
20 Hyde Park Road  
Stafford, Connecticut**

Dear Ms. Wakley:

## INTRODUCTION

Weston & Sampson, Inc. is pleased to present this report of our Hazardous Building Materials (HBM) Investigation services conducted for the Witt School building located at 20 Hyde Park Road (Site) in Stafford, Connecticut (CT). Our services were completed in accordance with our October 14, 2020 proposal. The project is being funded through a Cooperative Agreement between the Town of Stafford and the United States Environmental Protection Agency (US EPA) through a Brownfields Community Wide Assessment Grant; Brownfields Grant# BF-00A00360-0. The assessment grant funds are being used to conduct a supplemental HBM Investigation at the Site.

As identified in the Town of Stafford's EPA Brownfields Assessment Grant application, the former school building's HBMI assessment and ultimate reuse is an essential part of the downtown's revitalization. While the former Witt School no longer serves a productive purpose as an educational facility, the building's reactivation - envisioned with new market-viable uses - will help to activate Hyde Park and generate economic benefits that extend well beyond the property itself.

To help evaluate proposed reuse of the Site building, Weston & Sampson performed a survey to evaluate polychlorinated biphenyls (PCB)-containing paint, coatings, and other materials. Also discussed are results from historical HBMI at the Site.

## PREVIOUS INVESTIGATIONS AND REGULATORY OVERVIEW

Hazardous Building Material Surveys of the Site were performed by Brooks Safe and Sound in 1991 and Fuss & O'Neill EnviroScience, LLC (EnviroScience) in 2010. The surveys included sampling of building materials for asbestos-containing materials (ACMs), lead-based paint (LBP), and PCBs. Numerous ACMs and LBP building components were noted during the survey. Additionally, window caulking and glazing compounds present at the Site were sampled for PCB content. PCBs were not detected in any of the samples, however some of the reporting limits were greater than one milligram per kilogram (>1 mg/kg), which are presently considered a regulatory limit, as discussed below.

In the subsequent 10 years following the survey, changes to PCB regulations have been enacted. The Connecticut Department of Energy and Environmental Protection (DEEP) now regulates PCBs in concentrations >1 mg/kg in building materials and, despite the not detected sample results obtained previously, the laboratory reporting limits for the samples were 1.7 mg/kg. Per CT DEEP regulation, the samples are considered >1 ppm and thereby regulated by CT DEEP and would require removal of the bulk

material and possibly the surrounding substrate. PCB's are also regulated under EPA's PCB regulations found in the Code of Federal Regulations, Chapter 40, Part 761 (40 CFR Part 761).

### Asbestos Survey

The 1991 and 2010 asbestos surveys performed by Brooks Safe and Sound and EnviroScience, respectively identified a total of 17 asbestos-containing materials (ACMs). The results of the sampling are summarized below.

*Samples collected 1991 and 2010*

Quantity	Description	Location	Analytical Result (% Asbestos)
5,200 SF	9"x9" black floor tile	Hallways and stairwells	5% Chrysotile
1,900 SF	9"x9" green floor tile	Kitchen, rooms 110 & 111	8% Chrysotile
2,300 SF	9"x9" black & brown checkered floor tile	Cafeteria, west end hallway near gym, rooms across from cafeteria	5% Chrysotile
240 SF	Mastic on brown 9"x9" floor tile	Rooms across from cafeteria	4% Chrysotile
12,000 SF	Ceiling plaster – rough coat	Throughout classrooms, bathrooms, hallways, stairwells (1953 section)	5% Chrysotile
140 SF	Breeching insulation	Boiler room	20-40% Chrysotile
200 SF	Tank insulation	Boiler room	*
450 SF	Boiler insulation	Boiler room	*
3,000 LF	Pipe insulation	Boiler room, tunnels, lower-level rooms, wall cavities	20-70% Chrysotile
700 each	Mudded insulation pipe fittings	Boiler room, tunnels, lower-level rooms, wall cavities	20-40% Chrysotile
45 each	Window glazing (metal windows)	Cafeteria, gym, rooms across from cafeteria, stairwells	5% Chrysotile
100 LF	Mastic on terra cotta caps	Gym roof	10% Chrysotile
2,706 SF	Built-up roof	1953 roof	5% Chrysotile
66 each	Window glazing compound (wood windows)	Classrooms	2.25% Chrysotile
23,000 SF	Ceiling plaster (skim coat - 1937)	Classrooms, offices, stairwells (1937 section)	1.5% Chrysotile
2,300 SF	Mastic to black/brown 9"x9" checkered floor tile	Cafeteria, west end hallway near gym, rooms across from cafeteria	2.75% Chrysotile
2 SF	Duct adhesive	Mechanical room next to northeast stairwell (top level)	1.5% Chrysotile

SF=square feet LF = linear feet \* = 1991 sampling results not provided

The EPA and CT DEEP consider materials identified to contain greater than 1% asbestos to be ACMs. As shown in the table above, several building materials previously sampled by other firms contained asbestos exceeding 1%. According to CT DEEP regulations, ACMs must be removed by a licensed contractor prior to any activity that would disturb the material.

### Lead Paint Screening

A lead paint screen was performed by EnviroScience in 2010 utilizing a direct reading X-ray fluorescence (XRF) analyzer. The 2010 lead paint screening identified numerous lead-based paint (LBP) paints or coatings. The materials identified to contain LBP during the screening are summarized below.

*2010 Lead Paint Screening Results*

Component	Location
Plaster wall (lower)	Room 113, 2 <sup>nd</sup> floor hallway
Plaster wall	Main hallways (1 <sup>st</sup> & 2 <sup>nd</sup> floors)
Riser	Main hallway 1 <sup>st</sup> floor
Stringer	Main hallway 1 <sup>st</sup> floor
Baseboard	Main hallway 1 <sup>st</sup> floor
Baluster	Main hallway 1 <sup>st</sup> floor
Railing cap	Main hallway 1 <sup>st</sup> floor
Newel post	Main hallway 1 <sup>st</sup> floor
Handrail	Main hallway 1 <sup>st</sup> floor
Brick wall	Hallway below gym
Wall molding	Hallway below gym
Door	2 <sup>nd</sup> floor hallway
Door casing	2 <sup>nd</sup> floor hallway
Door jamb	2 <sup>nd</sup> floor hallway
Basement window sash – metal	Exterior (C sides)
Window frame – metal	Exterior (C side)
Window sash – wood	Exterior (B & D sides)
Window sash – metal	Exterior (B side)
Lower trim	Exterior (B side)
Basement window sash	Exterior (B side)
Window trim - wood	Exterior (D side)

### Other Hazardous Materials

As part of the 2010 EnviroScience survey, an inventory of potentially hazardous mechanical equipment located within the survey area that will require special handling and disposal prior to building renovation / demolition activities was performed. The following potentially hazardous materials were observed at the Site:

Material	Quantity
Fluorescent light bulbs	493
Fluorescent light ballasts (“No PCBs” label not observed)	7

### **WESTON & SAMPSON INVESTIGATION**

In December 2020, Weston & Sampson performed a limited HBM investigation including sampling for PCBs in caulk, and to evaluate if PCBs were present in air within the building.

Laboratory limits of detection can be skewed upwards if a sufficient quantity/weight of material is not collected or if there were interferences in the samples that would make quantification of PCBs difficult. If a larger amount of suspect PCB-containing material is collected and sample cleanups are performed, reporting limits <1 mg/kg can be achieved. Therefore, rather than perform a potentially unnecessary large-scale PCB remediation project, Weston & Sampson resampled the previously collected materials to obtain data that could potentially exempt the window caulking and glazing compounds from DEEP's and EPA's regulation. Weston & Sampson resampled the window caulking and glazing compounds originally sampled in 2010 by Fuss & O'Neill to obtain data with sufficiently low reporting limits to evaluate if remedial actions are required. Air samples were collected as part of a high-level screening process to determine if sources of PCBs may be present within the building. The goal of collecting air samples rather than bulk samples of paint was to avoid obtaining data that could potentially require imminent remediation.

In general, the condition of the Witt School structure was noted to be good. Overall, within the interior, while paint had peeled off several surfaces, there did not appear to be much direct water damage other than limited amounts in some of the upper rooms. Weston & Sampson observed some evidence of vandalism (i.e., several of the windows were broken, etc.), however, the building appears to be structurally sound, based on our observations. Weston & Sampson did not observe the presence of a release of oil and/or hazardous materials, other than the building materials discussed in this report. A photolog showing the general condition of the Witt School and selected rooms is attached.

Significant amounts of damaged/peeling paint was observed within the building that will require removal and disposal as part of any redevelopment of the property. Due to the age of the paint and the potential for PCBs in the paint, Weston & Sampson performed background/screening air sampling for PCBs within the structure to evaluate if PCBs were present that may pose a risk to future occupants.

## SURVEY RESULTS

### Polychlorinated Biphenyls (PCB) Survey

#### Bulk Sampling

Weston & Sampson observed suspect materials and previously sampled materials within the property. Weston & Sampson collected a total of six (6) samples plus a duplicate for PCB analysis. These samples were analyzed by Con-Test Analytical Laboratory of East Longmeadow, Massachusetts using EPA Method 8082 with Soxhlet extraction. The sample results are summarized below.

*PCB Bulk Sample Results*

Sample Description	Analytical Result (ppm)
PCBB-01 – Metal window glazing	3.0
PCBB-02 – Metal window glazing	2.9
PCBB-03 – Wood window glazing	ND <0.098
PCBB-04 – Wood window caulk	0.36
PCBB-05 – Metal window caulk	0.23
PCBB-06 – Metal window glazing	1.4
PCBB-DUP* – Metal window glazing	3.5

\*PCBB-DUP – Duplicate to PCBB-02

Caulking and other bulk materials that contain PCBs in concentrations greater than 50 ppm are considered PCB bulk product waste and must be removed from the structure and disposed at a facility permitted to accept such materials. *CT DEEP guidance documents require the removal of PCB containing building materials at concentrations >1 mg/kg (i.e., 1ppm). The guidance also requires the removal of building substrates in contact with the tested materials if PCB concentrations are >1 mg/kg.*



#### Air Sampling

Weston & Sampson collected three (3) PCB in air samples plus a duplicate. The PCB air samples were analyzed by Con-Test Analytical Laboratory of East Longmeadow, Massachusetts using EPA Method 680 (PCBs by homologs) as recommended by the EPA.

*PCB Air Sample Results*

Sample Description	Analytical Result - Nanograms per cubic meter (ng/m <sup>3</sup> )
PCBA-01 – Classroom 117	3.1
PCBA-02 – North stairwell 2 <sup>nd</sup> floor	1
PCBA-03 – Classroom 223	10
PCBA-DUP – Classroom 117	ND

\*PCBA-DUP – Duplicate to PCBA-01

EPA has established a Risk Screening Level for residential and industrial indoor air for PCBs of five nanograms per cubic meter (5 ng/m<sup>3</sup>) and 20 ng/m<sup>3</sup>, respectively. One (1) of the sample results, PCBA-03, exceeded the residential criteria for PCBs in indoor air. ***The indoor air results indicate that sources of PCBs in the building exist and will need to be addressed to reduce the risk posed to potential future building users.***

#### Asbestos Limitations

Previous surveys did not include an evaluation of soils or underground materials that may be present at the Site. Limited exploratory demolition was performed to access potentially hidden materials. In addition to the above listed materials, other suspect ACMs may be present at the Site or within other building areas that may not have been accessible by Brooks Safe and Sound or EnviroScience during the previous surveys. ***Weston & Sampson recommends that if any suspect materials are uncovered during demolition or renovation activities that were not identified during the survey, that the materials be sampled and analyzed for asbestos content prior to disturbance.*** This document is not intended to be nor will it suffice to serve as a bid document or specification.

#### Regulatory Implications and Regulations

OSHA defines any detectable concentration of lead in paint as a potential lead exposure hazard to workers doing construction/demolition-type work on these surfaces as even small concentrations of lead can result in unacceptable employee exposures depending upon the method of removal and other workplace conditions. Since these conditions can vary greatly, the lead-in-construction standard was written to require exposure monitoring or the use of historical or objective data to ensure that employee exposures do not exceed the Action Level of 30 micrograms per cubic meter of air (µg/m<sup>3</sup>). Historical data may be applied to some construction tasks involving lead.

OSHA requires that if coated surfaces with paint containing lead are impacted during demolition, then lead exposure monitoring must be performed by the contractor. Contractors and employers of staff who may disturb these materials are obligated to perform a 'negative exposure assessment' in accordance with OSHA regulations in order to document that, although minimal levels of lead are present in these materials, exposure to lead does not exceed the aforementioned OSHA Action Level.

OSHA states that until the employer performs an exposure assessment (or can supply prior data regarding the same type of work which may exempt them from the standard) and documents that employees are not exposed above the permissible exposure limit (PEL) of greater than 50 µg/m<sup>3</sup> of air, the employer must treat employees as if they were exposed above the PEL for the following operations:

- manual demolition of structures, manual scraping, manual sanding, and use of heat gun where lead-containing coatings or paints are present;
- abrasive blasting enclosure movement and removal;
- power tool cleaning;
- lead burning;

- using lead-containing mortar or spray painting with lead-containing paint;
- abrasive blasting, rivet busting, or welding, cutting, or burning on any structure where lead-containing coatings or paint are present;
- cleanup activities where dry expendable abrasive are used; and
- any other task the employer believes may cause exposure in excess of the PEL.

The contractor must provide respiratory protection, protective work clothing and equipment, change areas, hand washing facilities, biological monitoring, and training until an exposure assessment has determined that the work activity will result in an exposure below the PEL. Additional requirements under this standard include a written compliance program as well as record keeping.

## CONCLUSIONS AND RECOMMENDATIONS

The analytical results indicate that no federally regulated materials are present in the window caulking and glazing compounds. However, CT DEEP guidance does require the removal of the glazing in the metal-framed windows. If the windows and frames are removed and disposed, the requirement to remediate building substrates in the CT DEEP guidance will also be met.

Air sample results indicated sources of PCBs are present within the building. Based on current data, should renovation of the building occur, Weston & Sampson recommends that suspect PCB-containing materials to be removed (e.g., flaking paint, etc.) should be abated, handled, and disposed of as PCB bulk product waste. Prior to re-occupancy of the structure, indoor air samples should be collected to determine that the risk has been addressed for the future use of the structure.

Further delineation of PCB containing materials may be possible through more extensive sampling of suspect PCB-containing building materials inside the building. However, it *must* be reemphasized that sample data above the concentrations discussed above (>1 mg/kg per CT DEEP guidance documents) trigger the requirement for removal of PCB containing building materials and potential remediation of associated substrates.

### Water Damage

As the building has been unoccupied for an extended period of time, limited water infiltration into the building has occurred in numerous locations. It appears that moisture has become trapped in the building and constant evaporation and condensation has caused large quantities of paint to delaminate from walls and ceilings. However, widespread microbial growth was not observed during the HBMI and does not currently present a hazard to either potential occupants or building structure.

The water has damaged known ACM within the building. Specifically, approximately 300 square feet of floor tile in the ground floor hallway and plaster in several rooms on upper floors. If the building remains unoccupied, we recommend restricting access and activity in any areas where damaged ACM is present. Ultimately the damaged ACMs will require abatement and/or repair as part of any building rehabilitation.

## COST ESTIMATES

Weston & Sampson developed cost estimates using current abatement prices. Our cost estimates are based on the data collected by Weston & Sampson and the asbestos survey and lead-based paint screening performed by others. Market conditions will affect abatement costs. Additionally, abatement costs may be affected if multiple phases of abatement are conducted compared to a single project.

Weston & Sampson estimates the cost to perform complete asbestos abatement at the building to be \$565,000 to \$620,000. Abatement would only be required for damaged materials or materials impacted by renovation. Should a redevelopment work scope not require a gut rehabilitation, thereby limiting required

abatement, the overall cost will be reduced. The OHM removal cost is estimated to be \$16,000. *Total demolition costs including abatement are estimated to range from \$1,425,000 to \$1,750,000.*

Lead paint removal and disposal typically does not impact overall demolition cost. However, as discussed above, the paint within the building is suspected to contain PCBs and should be treated and removed as a bulk product waste as part of the rehabilitation. Most of the surfaces to which the paint is applied have already been identified as ACM. The abatement costs listed above have factored in disposal of plaster surfaces as dual ACM and PCB waste.

We appreciate the opportunity to assist you with this project. If you have any questions or require any additional information, please do not hesitate to contact us at (978) 532-1900.

Very truly yours,

WESTON & SAMPSON ENGINEERS, INC.



Sarah DeStefano  
Team Leader | Associate



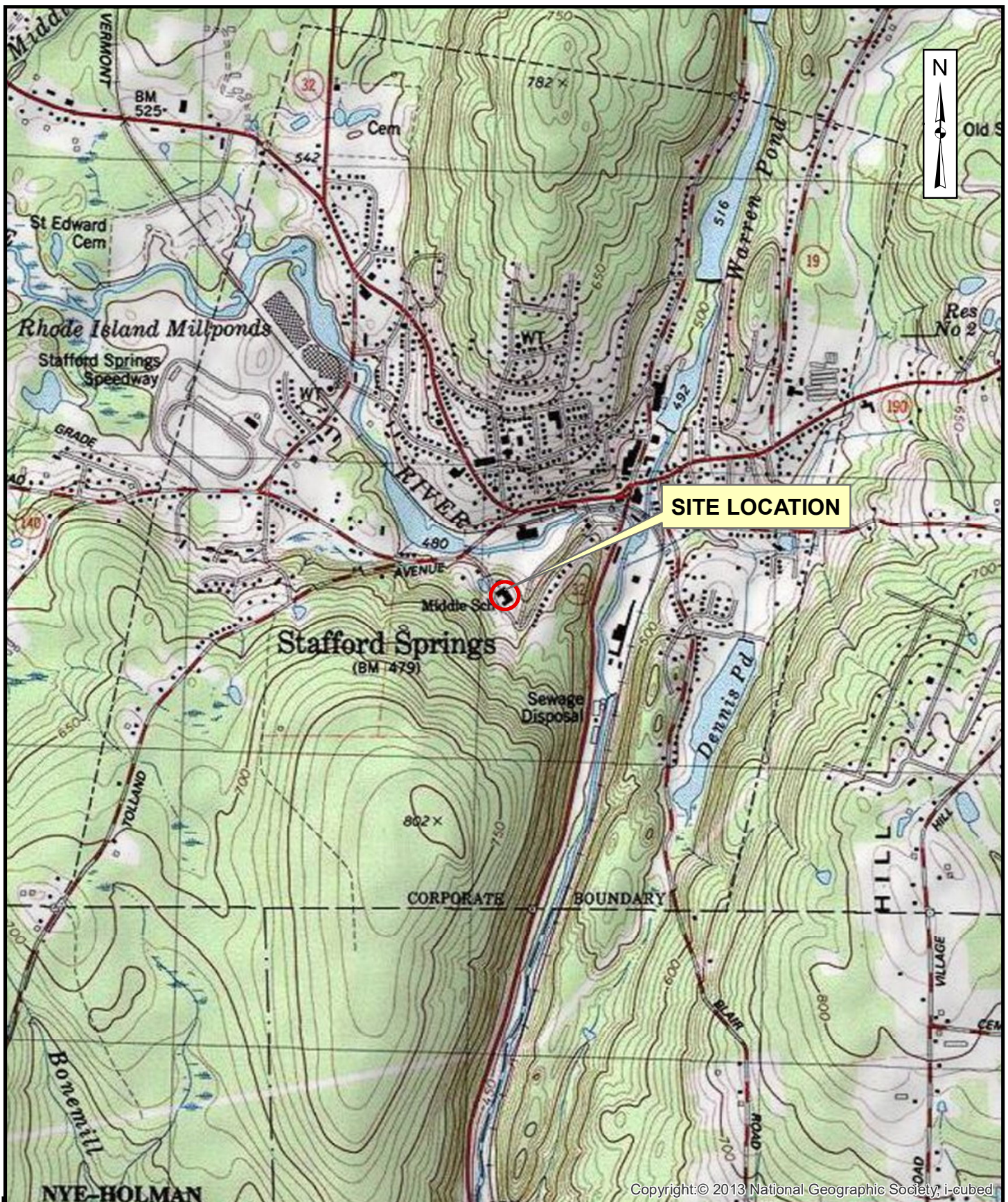
Craig Miner, LEED AP  
Senior Project Manager

**Attachments:**

- Figures:
  - Figure 1 – Locus Map
  - Figure 2 – Witt School Site Plan
  - Figures 3 – 5 – Witt School Sample Location Plans
- Attachment 1: Photo Log
- Attachment 2: Laboratory Analytical Results
- Attachment 3: *Hazardous Materials Survey Report* (2010), Fuss & O'Neill EnviroScience, LLC

## FIGURES





**FIGURE 1**  
**FORMER WITT SCHOOL**  
**20 HYDE PARK ROAD**  
**STAFFORD, CONNECTICUT**

**LOCUS MAP**

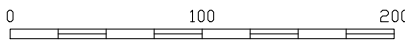
0 2,000 4,000 Feet



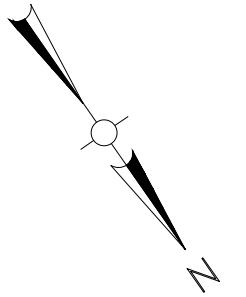
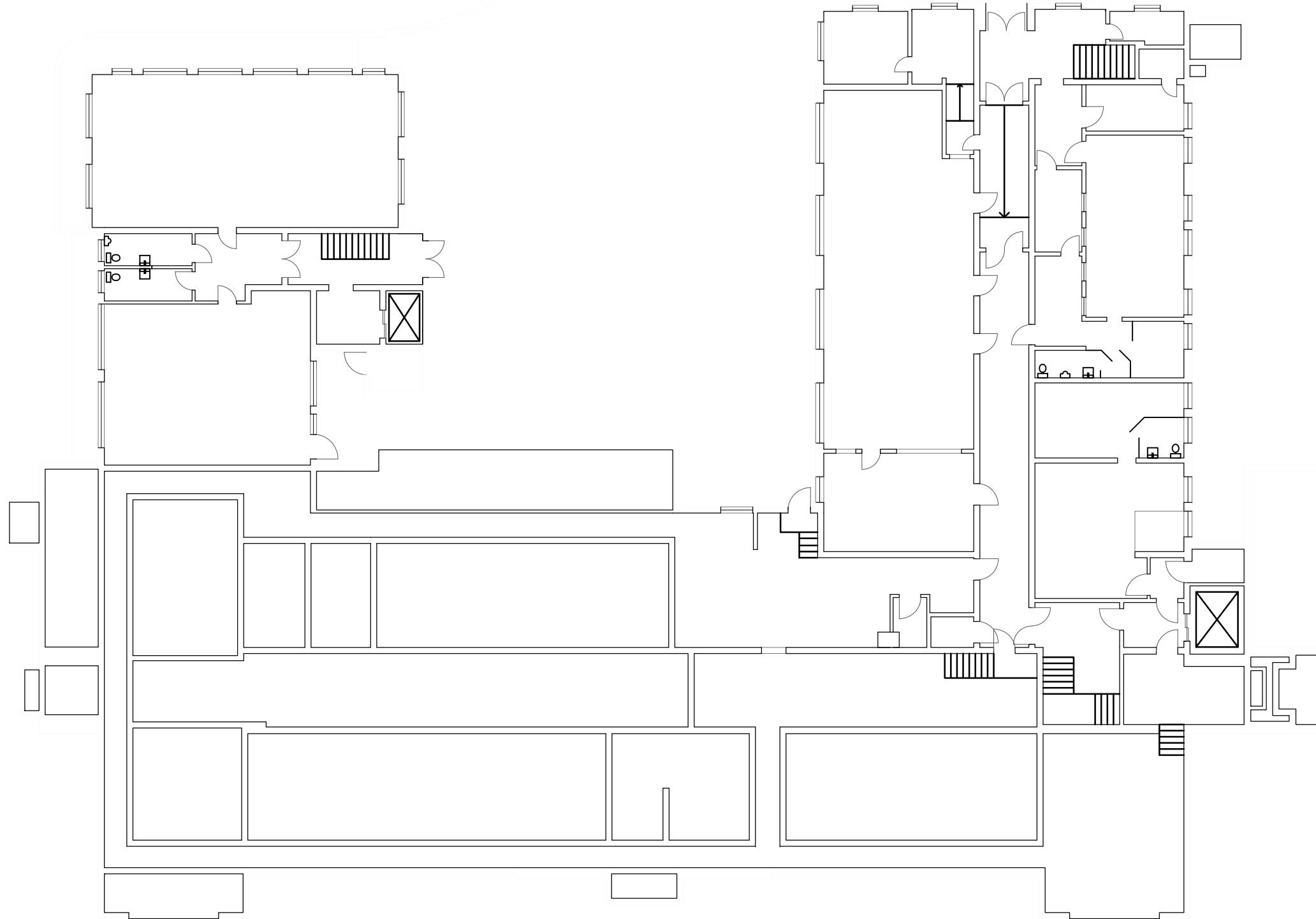
\\wse03.local\WSE\Projects\CT\Stafford CT\Brownfields 2020\Witt School\CAD\Figure 2-Witt Sch Site Plan.dwg



FIGURE 2  
FORMER WITT SCHOOL  
20 HYDE PARK ROAD  
SITE LOCATION PLAN  
SCALE: 1"=100'

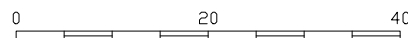






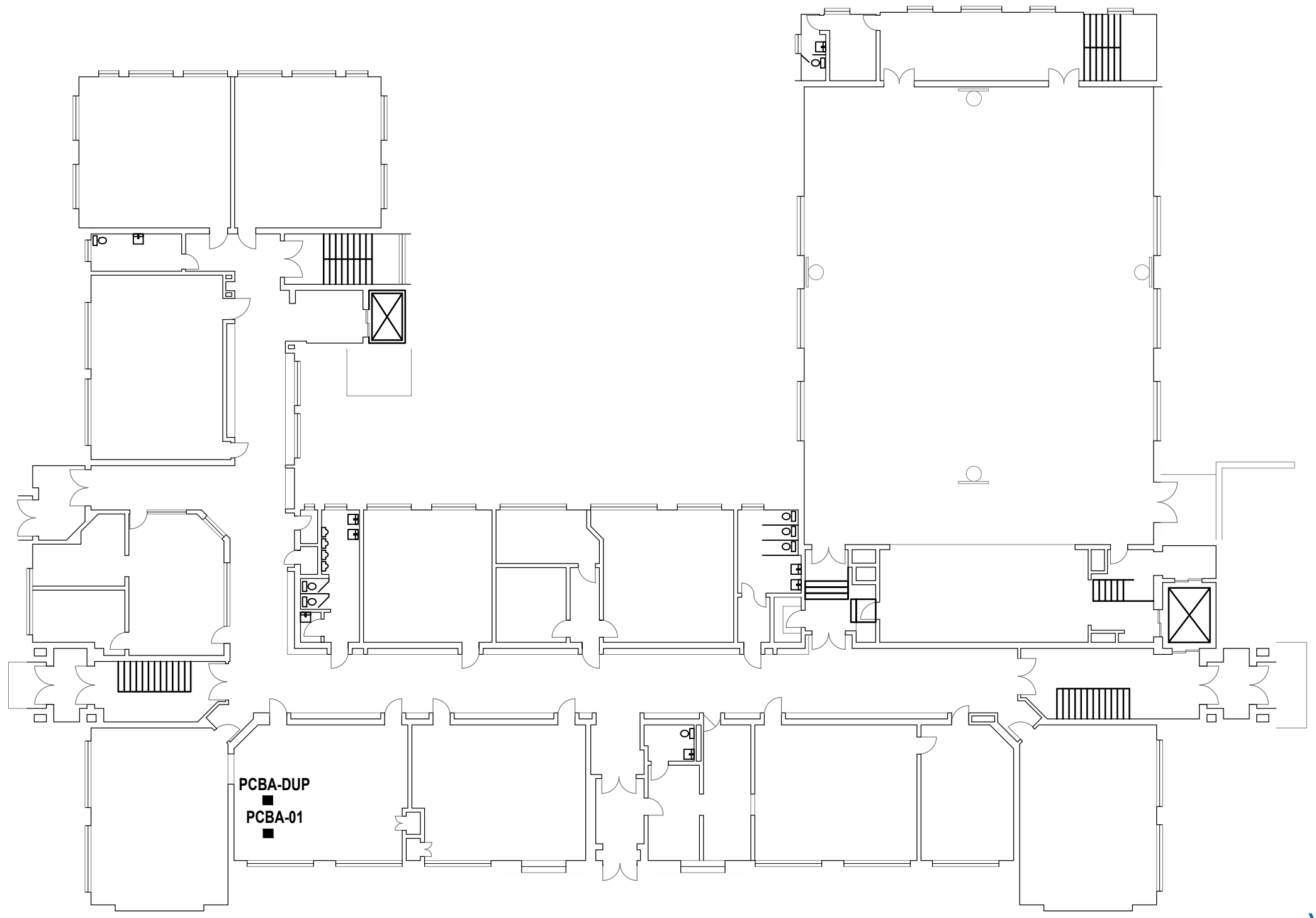
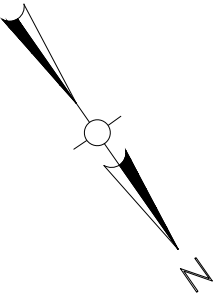
Weston & Sampson<sup>SM</sup>

FIGURE 3  
FORMER WITT SCHOOL  
20 HYDE PARK ROAD  
LOWER LEVEL  
SCALE: 1"=20'





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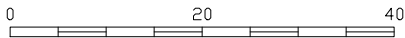


PCBA-01

PCB Air Sample



FIGURE 4  
FORMER WITT SCHOOL  
20 HYDE PARK ROAD  
FIRST LEVEL  
SCALE: 1"=20'



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PCBB-01

■

PCBA-02

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PCB Bulk Sample

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PCB Air Sample

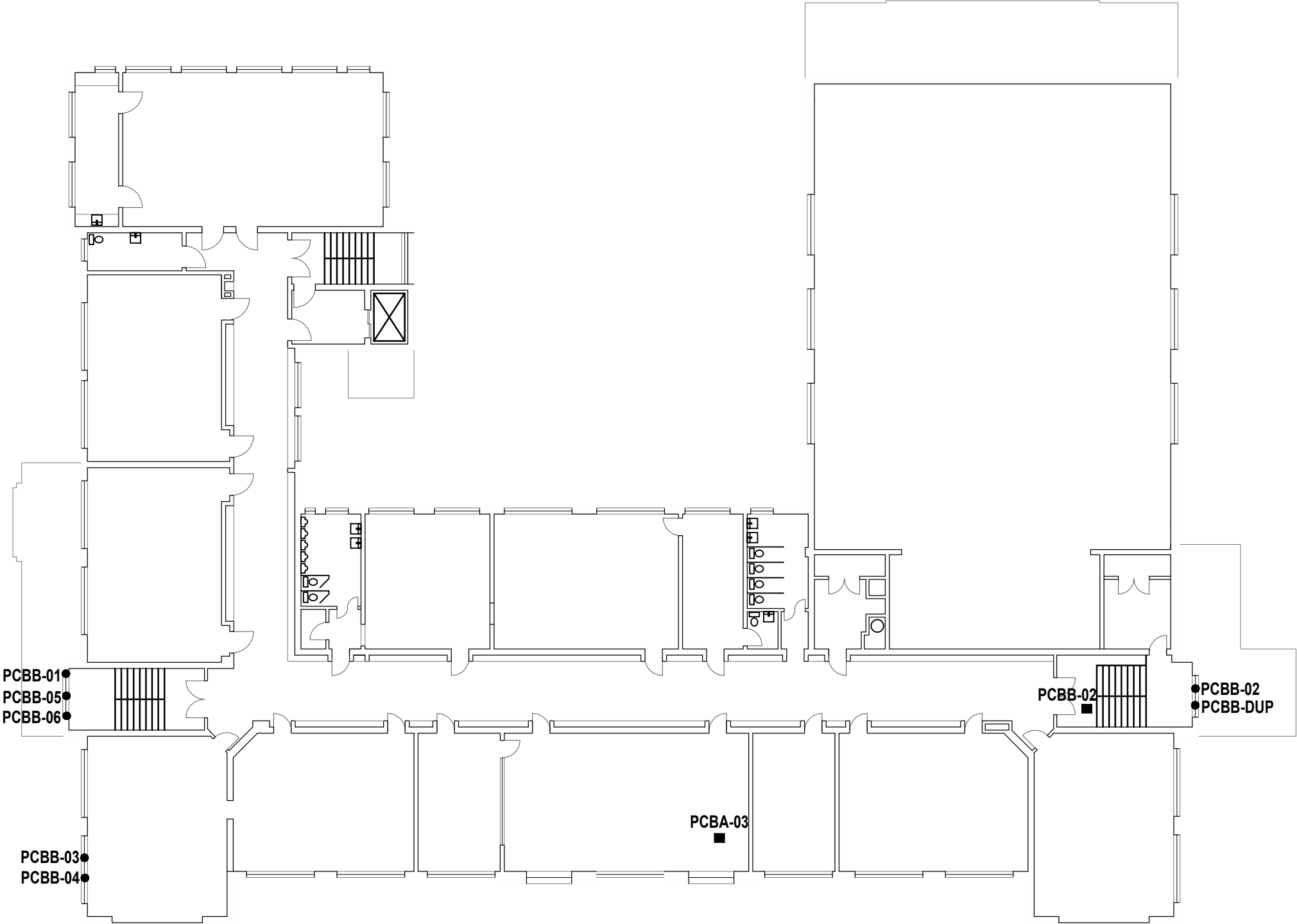
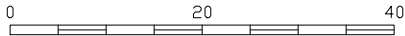


FIGURE 5  
FORMER WITT SCHOOL  
20 HYDE PARK ROAD  
SECOND LEVEL  
SCALE: 1"=20'

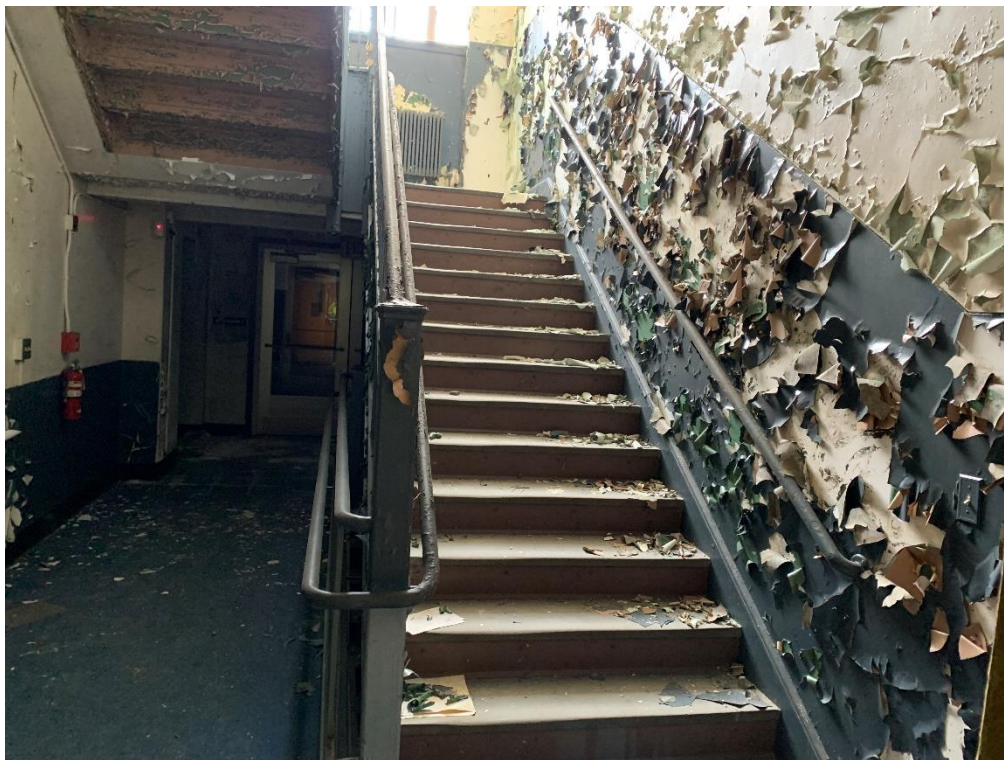


ATTACHMENT 1

Photo Log  
December 22, 2020



December 22, 2020: View of the northeastern side of the site structure looking northwest

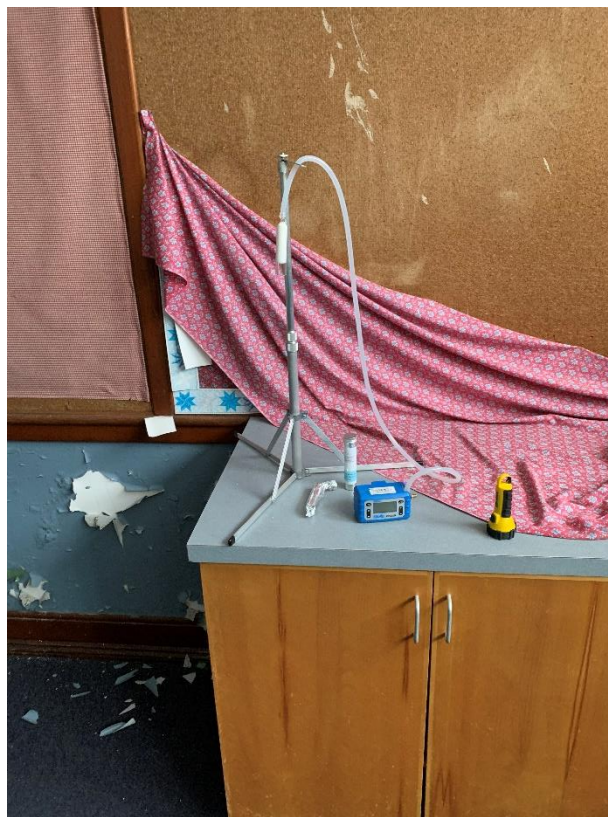


December 22, 2020: View of the northern stairwell leading to second floor

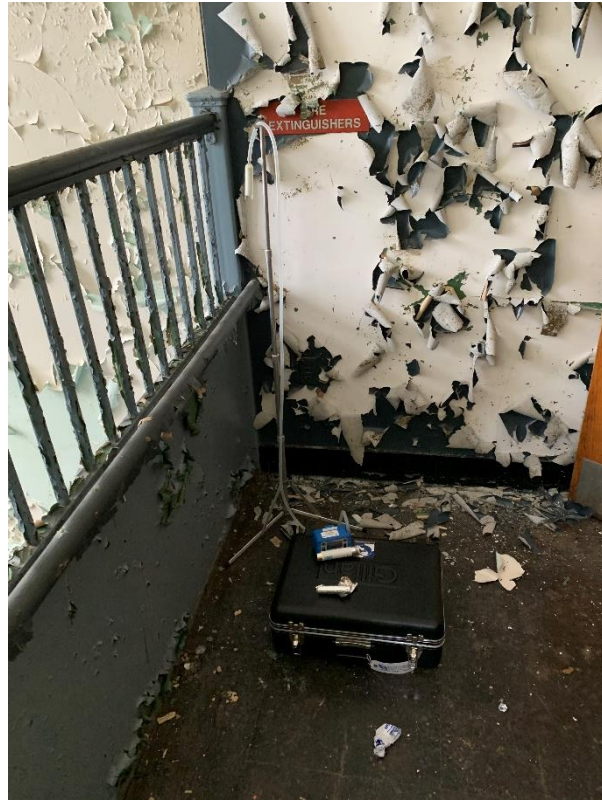




December 22, 2020: View of the paint and wall condition in the gymnasium



December 22, 2020: View of the PCB in air sampling setup – Room 223



December 22, 2020: View of the PCB in air sampling setup – north stairwell 2<sup>nd</sup> floor



December 22, 2020: View of typical classroom





December 22, 2020: View of the Gymnasium



December 22, 2020: Broken windows





December 22, 2020: Broken floor tile first floor



December 22, 2020: Delaminating paint in hall

## ATTACHMENT 2

### Laboratory Analytical Results

December 31, 2020

Sarah DeStefano  
Weston & Sampson  
712 Brook Street, Suite 103  
Rocky Hill, CT 06067

Project Location: 20 Hyde Park Rd., Stratford, CT  
Client Job Number:  
Project Number: ENG20-0144  
Laboratory Work Order Number: 20L1149

Enclosed are results of analyses for samples received by the laboratory on December 22, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Michelle M. Koch  
Project Manager

## Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
Sample Preparation Information	9
QC Data	10
PCB Homologues by GC/MS with Soxhlet Extraction	10
B273460	10
Flag/Qualifier Summary	11
Internal standard Area & RT Summary	12
Continuing Calibration Check	13
Certifications	14
Chain of Custody/Sample Receipt	15

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332Weston & Sampson  
712 Brook Street, Suite 103  
Rocky Hill, CT 06067  
ATTN: Sarah DeStefano

REPORT DATE: 12/31/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: ENG20-0144

**ANALYTICAL SUMMARY**

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WORK ORDER NUMBER: 20L1149

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

PROJECT LOCATION: 20 Hyde Park Rd., Stratford, CT


FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PCBA-DUP	20L1149-01	Indoor air		TO-10A/EPA 680 Modified	
PCBA-1	20L1149-02	Indoor air		TO-10A/EPA 680 Modified	
PCBA-2	20L1149-03	Indoor air		TO-10A/EPA 680 Modified	
PCBA-3	20L1149-04	Indoor air		TO-10A/EPA 680 Modified	

#### CASE NARRATIVE SUMMARY

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

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

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



Lisa A. Worthington  
Technical Representative

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

**ANALYTICAL RESULTS**

Project Location: 20 Hyde Park Rd., Stratford, CT

Sample Description/Location:

**Work Order: 20L1149**

Date Received: 12/22/2020

Sub Description/Location:

**Field Sample #: PCBA-DUP**
**Sample ID: 20L1149-01**

Sample Matrix: Indoor air

Flow Controller ID:

Sampled: 12/22/2020 14:00

Sample Type:

Air Volume L: 1950

**TO-10A/EPA 680 Modified**

Analyte	Total µg		Flag/Qual	ug/m3		Dilution	Date/Time		
	Results	RL		Results	RL		Analyzed	Analyst	
Monochlorobiphenyls	ND	0.0010		ND	0.00051	1	12/30/20	13:39	IMR
Dichlorobiphenyls	ND	0.0010		ND	0.00051	1	12/30/20	13:39	IMR
Trichlorobiphenyls	ND	0.0020		ND	0.001	1	12/30/20	13:39	IMR
Tetrachlorobiphenyls	ND	0.0020		ND	0.001	1	12/30/20	13:39	IMR
Pentachlorobiphenyls	ND	0.0020		ND	0.001	1	12/30/20	13:39	IMR
Hexachlorobiphenyls	ND	0.0020		ND	0.001	1	12/30/20	13:39	IMR
Heptachlorobiphenyls	ND	0.0030		ND	0.0015	1	12/30/20	13:39	IMR
Octachlorobiphenyls	ND	0.0030		ND	0.0015	1	12/30/20	13:39	IMR
Nonachlorobiphenyls	ND	0.0050		ND	0.0026	1	12/30/20	13:39	IMR
Decachlorobiphenyl	ND	0.0050		ND	0.0026	1	12/30/20	13:39	IMR
Total Polychlorinated biphenyls	0.0			0		1	12/30/20	13:39	IMR
Surrogates	% Recovery			% REC Limits					
Tetrachloro-m-xylene	79.5			50-125			12/30/20	13:39	



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

**ANALYTICAL RESULTS**

Project Location: 20 Hyde Park Rd., Stratford, CT

Date Received: 12/22/2020

**Field Sample #: PCBA-1**
**Sample ID: 20L1149-02**

Sample Matrix: Indoor air

Sampled: 12/22/2020 14:33

Sample Description/Location:

Sub Description/Location:

**Work Order: 20L1149**

Flow Controller ID:

Sample Type:

Air Volume L: 2100

**TO-10A/EPA 680 Modified**

Analyte	Total µg		Flag/Qual	ug/m3		Dilution	Date/Time		
	Results	RL		Results	RL		Analyzed	Analyst	
Monochlorobiphenyls	0.0031	0.0010		0.0015	0.00048	1	12/30/20	14:17	IMR
Dichlorobiphenyls	ND	0.0010		ND	0.00048	1	12/30/20	14:17	IMR
Trichlorobiphenyls	ND	0.0020		ND	0.00095	1	12/30/20	14:17	IMR
Tetrachlorobiphenyls	ND	0.0020		ND	0.00095	1	12/30/20	14:17	IMR
Pentachlorobiphenyls	0.0034	0.0020		0.0016	0.00095	1	12/30/20	14:17	IMR
Hexachlorobiphenyls	ND	0.0020		ND	0.00095	1	12/30/20	14:17	IMR
Heptachlorobiphenyls	ND	0.0030		ND	0.0014	1	12/30/20	14:17	IMR
Octachlorobiphenyls	ND	0.0030		ND	0.0014	1	12/30/20	14:17	IMR
Nonachlorobiphenyls	ND	0.0050		ND	0.0024	1	12/30/20	14:17	IMR
Decachlorobiphenyl	ND	0.0050		ND	0.0024	1	12/30/20	14:17	IMR
Total Polychlorinated biphenyls	0.0065			0.0031		1	12/30/20	14:17	IMR

Surrogates	% Recovery	% REC Limits	
Tetrachloro-m-xylene	84.6	50-125	12/30/20 14:17

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

**ANALYTICAL RESULTS**

Project Location: 20 Hyde Park Rd., Stratford, CT

Date Received: 12/22/2020

**Field Sample #: PCBA-2**
**Sample ID: 20L1149-03**

Sample Matrix: Indoor air

Sampled: 12/22/2020 14:55

Sample Description/Location:

Sub Description/Location:

**Work Order: 20L1149**

Flow Controller ID:

Sample Type:

Air Volume L: 2125

**TO-10A/EPA 680 Modified**

Analyte	Total µg		Flag/Qual	ug/m3		Dilution	Date/Time		
	Results	RL		Results	RL		Analyzed	Analyst	
Monochlorobiphenyls	ND	0.0010		ND	0.00047	1	12/30/20	14:54	IMR
Dichlorobiphenyls	ND	0.0010		ND	0.00047	1	12/30/20	14:54	IMR
Trichlorobiphenyls	ND	0.0020		ND	0.00094	1	12/30/20	14:54	IMR
Tetrachlorobiphenyls	ND	0.0020		ND	0.00094	1	12/30/20	14:54	IMR
Pentachlorobiphenyls	0.0022	0.0020		0.001	0.00094	1	12/30/20	14:54	IMR
Hexachlorobiphenyls	ND	0.0020		ND	0.00094	1	12/30/20	14:54	IMR
Heptachlorobiphenyls	ND	0.0030		ND	0.0014	1	12/30/20	14:54	IMR
Octachlorobiphenyls	ND	0.0030		ND	0.0014	1	12/30/20	14:54	IMR
Nonachlorobiphenyls	ND	0.0050		ND	0.0024	1	12/30/20	14:54	IMR
Decachlorobiphenyl	ND	0.0050		ND	0.0024	1	12/30/20	14:54	IMR
Total Polychlorinated biphenyls	0.0022			0.001		1	12/30/20	14:54	IMR

Surrogates	% Recovery		% REC Limits		
Tetrachloro-m-xylene	82.7		50-125		12/30/20 14:54

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

**ANALYTICAL RESULTS**

Project Location: 20 Hyde Park Rd., Stratford, CT

Date Received: 12/22/2020

**Field Sample #: PCBA-3**
**Sample ID: 20L1149-04**

Sample Matrix: Indoor air

Sampled: 12/22/2020 14:35

Sample Description/Location:

Sub Description/Location:

**Work Order: 20L1149**

Flow Controller ID:

Sample Type:

Air Volume L: 2000

**TO-10A/EPA 680 Modified**

Analyte	Total µg		Flag/Qual	ug/m3		Dilution	Date/Time		
	Results	RL		Results	RL		Analyzed	Analyst	
Monochlorobiphenyls	ND	0.0010		ND	0.0005	1	12/30/20	15:32	IMR
Dichlorobiphenyls	ND	0.0010		ND	0.0005	1	12/30/20	15:32	IMR
Trichlorobiphenyls	ND	0.0020		ND	0.001	1	12/30/20	15:32	IMR
Tetrachlorobiphenyls	0.0034	0.0020		0.0017	0.001	1	12/30/20	15:32	IMR
Pentachlorobiphenyls	0.012	0.0020		0.0062	0.001	1	12/30/20	15:32	IMR
Hexachlorobiphenyls	0.0048	0.0020		0.0024	0.001	1	12/30/20	15:32	IMR
Heptachlorobiphenyls	ND	0.0030		ND	0.0015	1	12/30/20	15:32	IMR
Octachlorobiphenyls	ND	0.0030		ND	0.0015	1	12/30/20	15:32	IMR
Nonachlorobiphenyls	ND	0.0050		ND	0.0025	1	12/30/20	15:32	IMR
Decachlorobiphenyl	ND	0.0050		ND	0.0025	1	12/30/20	15:32	IMR
Total Polychlorinated biphenyls	0.021			0.010		1	12/30/20	15:32	IMR

Surrogates	% Recovery	% REC Limits	
Tetrachloro-m-xylene	89.4	50-125	12/30/20 15:32

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332**Sample Extraction Data****Prep Method: SW-846 3540C      Analytical Method: TO-10A/EPA 680 Modified**

Lab Number [Field ID]	Batch	Initial [Cartridge	Final [mL]	Date
20L1149-01 [PCBA-DUP]	B273460	1.00	1.00	12/23/20
20L1149-02 [PCBA-1]	B273460	1.00	1.00	12/23/20
20L1149-03 [PCBA-2]	B273460	1.00	1.00	12/23/20
20L1149-04 [PCBA-3]	B273460	1.00	1.00	12/23/20

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

## QUALITY CONTROL

## PCB Homologues by GC/MS with Soxhlet Extraction - Quality Control

Analyte	Total µg		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	Total µg	Result	%REC	Limits	RPD	Limit	

## Batch B273460 - SW-846 3540C

<b>Blank (B273460-BLK1)</b>					Prepared: 12/23/20 Analyzed: 12/30/20						
Monochlorobiphenyls	ND	0.0010									
Dichlorobiphenyls	ND	0.0010									
Trichlorobiphenyls	ND	0.0020									
Tetrachlorobiphenyls	ND	0.0020									
Pentachlorobiphenyls	ND	0.0020									
Hexachlorobiphenyls	ND	0.0020									
Heptachlorobiphenyls	ND	0.0030									
Octachlorobiphenyls	ND	0.0030									
Nonachlorobiphenyls	ND	0.0050									
Decachlorobiphenyl	ND	0.0050									
Total Polychlorinated biphenyls	0.0										
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.156</i>				<i>0.200</i>		<i>78.2</i>	<i>50-125</i>			

<b>LCS (B273460-BS1)</b>					Prepared: 12/23/20 Analyzed: 12/30/20						
Monochlorobiphenyls	0.13	0.0010			0.200		63.8	40-140			
Dichlorobiphenyls	0.14	0.0010			0.200		70.4	40-140			
Trichlorobiphenyls	0.15	0.0020			0.200		74.9	40-140			
Tetrachlorobiphenyls	0.30	0.0020			0.400		75.3	40-140			
Pentachlorobiphenyls	0.32	0.0020			0.400		78.8	40-140			
Hexachlorobiphenyls	0.34	0.0020			0.400		84.3	40-140			
Heptachlorobiphenyls	0.51	0.0030			0.600		85.1	40-140			
Octachlorobiphenyls	0.46	0.0030			0.600		76.0	40-140			
Nonachlorobiphenyls	0.64	0.0050			1.00		64.3	40-140			
Decachlorobiphenyl	0.63	0.0050			1.00		62.7	40-140			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.149</i>				<i>0.200</i>		<i>74.4</i>	<i>50-125</i>			

<b>LCS Dup (B273460-BSD1)</b>					Prepared: 12/23/20 Analyzed: 12/30/20						
Monochlorobiphenyls	0.12	0.0010			0.200		60.2	40-140	5.77	50	
Dichlorobiphenyls	0.13	0.0010			0.200		63.4	40-140	10.5	50	
Trichlorobiphenyls	0.14	0.0020			0.200		67.5	40-140	10.4	50	
Tetrachlorobiphenyls	0.27	0.0020			0.400		67.8	40-140	10.5	50	
Pentachlorobiphenyls	0.30	0.0020			0.400		74.0	40-140	6.30	50	
Hexachlorobiphenyls	0.33	0.0020			0.400		81.3	40-140	3.62	50	
Heptachlorobiphenyls	0.49	0.0030			0.600		81.9	40-140	3.77	50	
Octachlorobiphenyls	0.44	0.0030			0.600		73.1	40-140	3.89	50	
Nonachlorobiphenyls	0.61	0.0050			1.00		60.6	40-140	5.83	50	
Decachlorobiphenyl	0.58	0.0050			1.00		58.4	40-140	7.02	50	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.135</i>				<i>0.200</i>		<i>67.4</i>	<i>50-125</i>			

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

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.

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

**INTERNAL STANDARD AREA AND RT SUMMARY**
**TO-10A/EPA 680 Modified**

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>LCS (B273460-BS1 )</b>									
Lab File ID: F2036508.D					Analyzed: 12/30/20 11:47				
Phenanthrene-d10	523265	20.896	512532	20.889	102	70 - 130	0.0070	+/-0.50	
Chrysene-d12	461135	28.873	458056	28.865	101	70 - 130	0.0080	+/-0.50	
<b>LCS Dup (B273460-BSD1 )</b>									
Lab File ID: F2036509.D					Analyzed: 12/30/20 12:25				
Phenanthrene-d10	526497	20.896	512532	20.889	103	70 - 130	0.0070	+/-0.50	
Chrysene-d12	449660	28.865	458056	28.865	98	70 - 130	0.0000	+/-0.50	
<b>Blank (B273460-BLK1 )</b>									
Lab File ID: F2036510.D					Analyzed: 12/30/20 13:02				
Phenanthrene-d10	464517	20.896	512532	20.889	91	70 - 130	0.0070	+/-0.50	
Chrysene-d12	398026	28.865	458056	28.865	87	70 - 130	0.0000	+/-0.50	
<b>PCBA-DUP (20L1149-01 )</b>									
Lab File ID: F2036511.D					Analyzed: 12/30/20 13:39				
Phenanthrene-d10	491292	20.896	512532	20.889	96	70 - 130	0.0070	+/-0.50	
Chrysene-d12	434634	28.865	458056	28.865	95	70 - 130	0.0000	+/-0.50	
<b>PCBA-1 (20L1149-02 )</b>									
Lab File ID: F2036512.D					Analyzed: 12/30/20 14:17				
Phenanthrene-d10	539652	20.896	512532	20.889	105	70 - 130	0.0070	+/-0.50	
Chrysene-d12	495197	28.873	458056	28.865	108	70 - 130	0.0080	+/-0.50	
<b>PCBA-2 (20L1149-03 )</b>									
Lab File ID: F2036513.D					Analyzed: 12/30/20 14:54				
Phenanthrene-d10	556950	20.896	512532	20.889	109	70 - 130	0.0070	+/-0.50	
Chrysene-d12	480177	28.865	458056	28.865	105	70 - 130	0.0000	+/-0.50	
<b>PCBA-3 (20L1149-04 )</b>									
Lab File ID: F2036514.D					Analyzed: 12/30/20 15:32				
Phenanthrene-d10	531559	20.896	512532	20.889	104	70 - 130	0.0070	+/-0.50	
Chrysene-d12	456731	28.865	458056	28.865	100	70 - 130	0.0000	+/-0.50	



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

CONTINUING CALIBRATION CHECK

COMPOUND	TYPE			RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)

# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

\* Values outside of QC limits

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

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

Analyte	Certifications
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**No certified Analyses included in this Report**

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2021
CT	Connecticut Department of Public Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2021
FL	Florida Department of Health	E871027 NELAP	06/30/2021
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2021
ME	State of Maine	MA00100	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2021
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2021
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

## CHAIN OF CUSTODY RECORD (AIR)

Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com



Company Name:

western &amp; Sampson

Address: 712 Brook St Ste 103, Rocky Hill, CT 06067

Phone: 860-513-1473

Project Name: WIT School

Project Location: 20 Hyde Park Rd, Stafford, CT

Project Number: ENG-20-0144

Project Manager: Sarah DeStefano

Con-Test Quote Number: 2012392

Invoice Recipient: Sarah DeStefano

Sampled By: Lewis Tamaccio

Requested Turnaround Time	7-Day <input checked="" type="checkbox"/> 10-Day <input type="checkbox"/>
Due Date:	12/29/20
Rush Approval Required	1-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> 4-Day <input type="checkbox"/>
Format: PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/>	Data Delivery
Other:	
CLP Like Data Pkg Required: <input type="checkbox"/>	
Email To: BeeLerMewseinc.com	
Fax To #:	

ANALYSIS REQUESTED										Lab Receipt Pressure		Please fill out completely, sign, date and retain the yellow copy for your records	
										" Hg		Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply	
										Final Pressure		For summa canister and flow controller information please refer to Con-Test's Air Media Agreement	
										Initial Pressure		Summa Can ID	
												Flow Controller ID	

I Have Not Confirmed Sample Container  
Numbers With Lab Staff Before  
Relinquishing Over  
Samples \_\_\_\_\_



**con-test®**  
ANALYTICAL LABORATORY

Doc# 278 Rev 6 2017

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

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

Client Weston & Sampson

Received By RUF Date 12/20/20 Time 1855  
How were the samples received? In Cooler T On Ice T No Ice \_\_\_\_\_  
In Box \_\_\_\_\_ Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_  
Were samples within Temperature Compliance? 2-6°C T By Gun # 3 Actual Temp - 5.4°C  
By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_  
Was Custody Seal Intact? LA Were Samples Tampered with? LA  
Was COC Relinquished? T Does Chain Agree With Samples? T  
Are there any loose caps/valves on any samples? F  
Is COC in ink/ Legible? T  
Did COC Include all Client T Analysis T Sampler Name T  
Pertinent Information? Project T ID's T Collection Dates/Times T  
Are Sample Labels filled out and legible? T  
Are there Rushes? F Who was notified? \_\_\_\_\_  
Samples are received within holding time? T  
Proper Media Used? T Individually Certified Cans? F  
Are there Trip Blanks? F Is there enough Volume? T

Containers:	#	Size	Regulator	Duration	Accessories:			
Summa Cans					Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/TO-11s	<u>4</u>				Tedlar			

Can #'s					Reg #'s				
Unused Media					Pufs/TO-17's				
					<u>12520-04</u>				
					<u>-01</u>				
					<u>-02</u>				
					<u>-03</u>				

Comments:

December 29, 2020

Sarah DeStefano  
Weston & Sampson  
712 Brook Street, Suite 103  
Rocky Hill, CT 06067

Project Location: 20 Hyde Park Rd., Stratford, CT  
Client Job Number:  
Project Number: ENG20-0144  
Laboratory Work Order Number: 20L1151

Enclosed are results of analyses for samples received by the laboratory on December 22, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Michelle M. Koch  
Project Manager

## Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
20L1151-01	5
20L1151-02	6
20L1151-03	7
20L1151-04	8
20L1151-05	9
20L1151-06	10
20L1151-07	11
Sample Preparation Information	12
QC Data	13
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	13
B273391	13
Dual Column RPD Report	14
Flag/Qualifier Summary	22
Certifications	23
Chain of Custody/Sample Receipt	25

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332Weston & Sampson  
712 Brook Street, Suite 103  
Rocky Hill, CT 06067  
ATTN: Sarah DeStefano

REPORT DATE: 12/29/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: ENG20-0144

**ANALYTICAL SUMMARY**

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WORK ORDER NUMBER: 20L1151

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

PROJECT LOCATION: 20 Hyde Park Rd., Stratford, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PCBB-01	20L1151-01	Product/Solid		SW-846 8082A	
PCBB-02	20L1151-02	Product/Solid		SW-846 8082A	
PCBB-03	20L1151-03	Product/Solid		SW-846 8082A	
PCBB-04	20L1151-04	Product/Solid		SW-846 8082A	
PCBB-05	20L1151-05	Product/Solid		SW-846 8082A	
PCBB-06	20L1151-06	Product/Solid		SW-846 8082A	
PCBB-DUP	20L1151-07	Product/Solid		SW-846 8082A	

**CASE NARRATIVE SUMMARY**

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

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

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



Lisa A. Worthington  
Technical Representative



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

Project Location: 20 Hyde Park Rd., Stratford, CT

Sample Description:

Work Order: 20L1151

Date Received: 12/22/2020

Field Sample #: PCBB-01

Sampled: 12/22/2020 09:05

Sample ID: 20L1151-01

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 13:28	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 13:28	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 13:28	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 13:28	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 13:28	TG
Aroclor-1254 [1]	3.0	0.49	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 13:28	TG
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 13:28	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 13:28	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 13:28	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	129	30-150						12/28/20 13:28	
Decachlorobiphenyl [2]	108	30-150						12/28/20 13:28	
Tetrachloro-m-xylene [1]	101	30-150						12/28/20 13:28	
Tetrachloro-m-xylene [2]	112	30-150						12/28/20 13:28	

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

Project Location: 20 Hyde Park Rd., Stratford, CT

Sample Description:

Work Order: 20L1151

Date Received: 12/22/2020

Field Sample #: PCBB-02

Sampled: 12/22/2020 09:15

Sample ID: 20L1151-02

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 13:46	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 13:46	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 13:46	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 13:46	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 13:46	TG
Aroclor-1254 [1]	2.9	0.49	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 13:46	TG
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 13:46	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 13:46	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 13:46	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	111	30-150							
Decachlorobiphenyl [2]	96.5	30-150							
Tetrachloro-m-xylene [1]	97.2	30-150							
Tetrachloro-m-xylene [2]	103	30-150							

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

Project Location: 20 Hyde Park Rd., Stratford, CT

Sample Description:

Work Order: 20L1151

Date Received: 12/22/2020

Field Sample #: PCBB-03

Sampled: 12/22/2020 09:22

Sample ID: 20L1151-03

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 10:27	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 10:27	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 10:27	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 10:27	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 10:27	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 10:27	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 10:27	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 10:27	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 10:27	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	105	30-150						12/28/20 10:27	
Decachlorobiphenyl [2]	90.7	30-150						12/28/20 10:27	
Tetrachloro-m-xylene [1]	90.9	30-150						12/28/20 10:27	
Tetrachloro-m-xylene [2]	95.9	30-150						12/28/20 10:27	

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Project Location: 20 Hyde Park Rd., Stratford, CT

Sample Description:

Work Order: 20L1151

Date Received: 12/22/2020

Field Sample #: PCBB-04

Sampled: 12/22/2020 09:28

Sample ID: 20L1151-04

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 10:45	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 10:45	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 10:45	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 10:45	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 10:45	TG
Aroclor-1254 [2]	0.36	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 10:45	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 10:45	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 10:45	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 10:45	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	96.5	30-150							
Decachlorobiphenyl [2]	86.0	30-150							
Tetrachloro-m-xylene [1]	91.8	30-150							
Tetrachloro-m-xylene [2]	94.9	30-150							

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Project Location: 20 Hyde Park Rd., Stratford, CT

Sample Description:

Work Order: 20L1151

Date Received: 12/22/2020

Field Sample #: PCBB-05

Sampled: 12/22/2020 09:44

Sample ID: 20L1151-05

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 11:02	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 11:02	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 11:02	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 11:02	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 11:02	TG
Aroclor-1254 [1]	0.23	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 11:02	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 11:02	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 11:02	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 11:02	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	100	30-150							
Decachlorobiphenyl [2]	86.1	30-150							
Tetrachloro-m-xylene [1]	92.8	30-150							
Tetrachloro-m-xylene [2]	93.9	30-150							

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Project Location: 20 Hyde Park Rd., Stratford, CT

Sample Description:

Work Order: 20L1151

Date Received: 12/22/2020

Field Sample #: PCBB-06

Sampled: 12/22/2020 09:49

Sample ID: 20L1151-06

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 11:20	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 11:20	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 11:20	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 11:20	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 11:20	TG
Aroclor-1254 [2]	1.4	0.10	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 11:20	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 11:20	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 11:20	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	12/23/20	12/28/20 11:20	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	109	30-150						12/28/20 11:20	
Decachlorobiphenyl [2]	99.5	30-150						12/28/20 11:20	
Tetrachloro-m-xylene [1]	100	30-150						12/28/20 11:20	
Tetrachloro-m-xylene [2]	102	30-150						12/28/20 11:20	

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Project Location: 20 Hyde Park Rd., Stratford, CT

Sample Description:

Work Order: 20L1151

Date Received: 12/22/2020

Field Sample #: PCBB-DUP

Sampled: 12/22/2020 00:00

Sample ID: 20L1151-07

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 14:03	TG
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 14:03	TG
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 14:03	TG
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 14:03	TG
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 14:03	TG
Aroclor-1254 [1]	3.5	0.50	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 14:03	TG
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 14:03	TG
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 14:03	TG
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	12/23/20	12/28/20 14:03	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	123	30-150							
Decachlorobiphenyl [2]	111	30-150							
Tetrachloro-m-xylene [1]	116	30-150							
Tetrachloro-m-xylene [2]	120	30-150							

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332**Sample Extraction Data****Prep Method: SW-846 3540C      Analytical Method: SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20L1151-01 [PCBB-01]	B273391	2.03	10.0	12/23/20
20L1151-02 [PCBB-02]	B273391	2.04	10.0	12/23/20
20L1151-03 [PCBB-03]	B273391	2.05	10.0	12/23/20
20L1151-04 [PCBB-04]	B273391	2.05	10.0	12/23/20
20L1151-05 [PCBB-05]	B273391	2.04	10.0	12/23/20
20L1151-06 [PCBB-06]	B273391	2.00	10.0	12/23/20
20L1151-07 [PCBB-DUP]	B273391	2.01	10.0	12/23/20



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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B273391 - SW-846 3540C**
**Blank (B273391-BLK1)**

Prepared: 12/23/20 Analyzed: 12/24/20

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	1.07		mg/Kg	1.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.09		mg/Kg	1.00		109	30-150			
Surrogate: Tetrachloro-m-xylene	1.01		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.979		mg/Kg	1.00		97.9	30-150			

**LCS (B273391-BS1)**

Prepared: 12/23/20 Analyzed: 12/24/20

Aroclor-1016	0.97	0.10	mg/Kg	1.00		96.6	40-140			
Aroclor-1016 [2C]	0.93	0.10	mg/Kg	1.00		92.8	40-140			
Aroclor-1260	0.96	0.10	mg/Kg	1.00		95.8	40-140			
Aroclor-1260 [2C]	0.92	0.10	mg/Kg	1.00		92.4	40-140			
Surrogate: Decachlorobiphenyl	1.04		mg/Kg	1.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.07		mg/Kg	1.00		107	30-150			
Surrogate: Tetrachloro-m-xylene	0.975		mg/Kg	1.00		97.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.942		mg/Kg	1.00		94.2	30-150			

**LCS Dup (B273391-BS1)**

Prepared: 12/23/20 Analyzed: 12/24/20

Aroclor-1016	1.0	0.10	mg/Kg	1.00		100	40-140	3.68	30	
Aroclor-1016 [2C]	0.98	0.10	mg/Kg	1.00		97.6	40-140	5.05	30	
Aroclor-1260	1.0	0.10	mg/Kg	1.00		100	40-140	4.31	30	
Aroclor-1260 [2C]	0.95	0.10	mg/Kg	1.00		94.6	40-140	2.36	30	
Surrogate: Decachlorobiphenyl	1.07		mg/Kg	1.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.09		mg/Kg	1.00		109	30-150			
Surrogate: Tetrachloro-m-xylene	1.02		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.993		mg/Kg	1.00		99.3	30-150			

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES****PCBB-01***SW-846 8082A*Lab Sample ID: 20L1151-01 Date(s) Analyzed: 12/28/2020 12/28/2020Instrument ID (1): ECD4 Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	3.0	
	2	0.000	0.000	0.000	2.6	14.3

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES****PCBB-02***SW-846 8082A*Lab Sample ID: 20L1151-02 Date(s) Analyzed: 12/28/2020 12/28/2020Instrument ID (1): ECD4 Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	2.9	
	2	0.000	0.000	0.000	2.6	10.9

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES****PCBB-04***SW-846 8082A*

Lab Sample ID: 20L1151-04 Date(s) Analyzed: 12/28/2020 12/28/2020  
Instrument ID (1): ECD4 Instrument ID (2): ECD4  
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.28	
	2	0.000	0.000	0.000	0.36	25.0

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***PCBB-05**

Lab Sample ID: 20L1151-05 Date(s) Analyzed: 12/28/2020 12/28/2020  
Instrument ID (1): ECD4 Instrument ID (2): ECD4  
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.23	
	2	0.000	0.000	0.000	0.21	9.1

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES****PCBB-06***SW-846 8082A*Lab Sample ID: 20L1151-06 Date(s) Analyzed: 12/28/2020 12/28/2020Instrument ID (1): ECD4 Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	1.4	
	2	0.000	0.000	0.000	1.4	0.0

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES****PCBB-DUP***SW-846 8082A*Lab Sample ID: 20L1151-07 Date(s) Analyzed: 12/28/2020 12/28/2020Instrument ID (1): ECD4 Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	3.5	
	2	0.000	0.000	0.000	3.2	9.0



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

LCS

Lab Sample ID: B273391-BS1      Date(s) Analyzed: 12/24/2020      12/24/2020  
 Instrument ID (1): \_\_\_\_\_      Instrument ID (2): \_\_\_\_\_  
 GC Column (1):                      ID:                      (mm)      GC Column (2):                      ID:                      (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.97	
	2	0.000	0.000	0.000	0.93	4.2
Aroclor-1260	1	0.000	0.000	0.000	0.96	
	2	0.000	0.000	0.000	0.92	4.3

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***LCS Dup**Lab Sample ID: B273391-BSD1 Date(s) Analyzed: 12/24/2020 12/24/2020

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	1.0	
	2	0.000	0.000	0.000	0.98	2.0
Aroclor-1260	1	0.000	0.000	0.000	1.0	
	2	0.000	0.000	0.000	0.95	5.1

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

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.

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

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

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

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2021
CT	Connecticut Department of Public Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2021
FL	Florida Department of Health	E871027 NELAP	06/30/2021
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2021
ME	State of Maine	MA00100	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2021
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2021
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021







I Have Not Confirmed Sample Container  
Numbers With Lab Staff Before Relinquishing  
Over Samples \_\_\_\_\_



**con-test®**  
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client W and S

Received By cu Date 12/22/20 Time 1955

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

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 5.4  
By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

Was Custody Seal Intact? NA Were Samples Tampered with? NA

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

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

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

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

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? \_\_\_\_\_

Are there Rushes? F Who was notified? \_\_\_\_\_

Are there Short Holds? F Who was notified? \_\_\_\_\_

Is there enough Volume? T

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

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

Were trip blanks received? F On COC? F

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

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

**Unused Media**

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

Comments:



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

**Laboratory Name:** Con-Test, a Pace Analytical Laboratory

**Client:** Weston & Sampson

**Project Location:** 20 Hyde Park Rd., Stratford, CT

**Project Number:** 20L1151

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

20L1151-01 thru 20L1151-07

12/22/2020

**List RCP Methods Used:**

SW-846 8082A

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

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

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

Lisa A. Worthington

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

**Authorized Signature:**
**Position:** Technical Representative
**Printed Name:** Lisa A. Worthington
**Date:** 12/29/20
**Name of Laboratory:** Con-Test, a Pace Analytical Laboratory

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

ATTACHMENT 3

Hazardous Materials Survey Report (2010)  
Fuss & O'Neill Enviroscience, LLC

# **Hazardous Materials Survey Report**

Former Witt Elementary School  
Stafford, Connecticut

## **Town of Stafford**

Stafford, CT

May 26, 2010



**FUSS & O'NEILL**  
*Disciplines to Deliver*

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



**FUSS & O'NEILL**  
**EnviroScience, LLC**

*Disciplines to Deliver*

May 26, 2010

Mr. Michael D. Waugh  
Special Projects Administrator  
Town of Stafford  
Warren Memorial Town Hall  
1 Main Street  
Stafford Springs, CT 06076

**RE: Hazardous Materials Survey**  
**Former Witt Elementary School**  
**Stafford, Connecticut**  
Fuss & O'Neill EnviroScience Project No. 20080836.A1E

Dear Mr. Waugh:

Enclosed is the report for the hazardous materials survey performed at the former Witt Elementary School in Stafford, Connecticut.

The survey was performed from May 4, 2010 through May 6, 2010 by a Fuss & O'Neill EnviroScience, LLC licensed inspector and included an asbestos inspection, screening for lead-based paint, and assessment of PCB-containing ballasts and possible mercury hazards.

The information summarized in this document is for the above-mentioned materials only. It does not include information on other hazardous materials that may exist in the property (such as underground storage tanks).

If you have any questions regarding the contents of this report, please do not hesitate to contact me at (860) 6460-2469, extension 5565. Thank you for this opportunity to have served your environmental needs.

146 Hartford Road  
Manchester, CT  
06040

t (860) 646-2469  
f (860) 533-5143

www.FandO.com

Connecticut  
Massachusetts  
New York  
Rhode Island  
South Carolina

Sincerely,

  
Stephen W. Connelly  
Senior Vice President

/kr

cc: Traci Hillebrecht, AIA, Architx, LLC



# Table of Contents

## Hazardous Materials Survey Report Town of Stafford

<b>1</b>	<b>Introduction .....</b>	<b>1</b>
<b>2</b>	<b>Asbestos Inspection .....</b>	<b>1</b>
2.1	Results .....	1
2.2	Discussion .....	4
2.2.1	Observations and Justifications .....	5
2.3	Conclusion .....	9
2.4	Cost of Abatement .....	9
<b>3</b>	<b>Lead-Based Paint Screening .....</b>	<b>10</b>
3.1	Results .....	10
3.2	Conclusion .....	12
<b>4</b>	<b>PCB-Containing Fluorescent Ballasts and Caulking and Glazing Compound, Mercury-Containing Lamps .....</b>	<b>12</b>
4.1	PCB-Containing Fluorescent Ballasts .....	12
4.1.1	Results .....	12
4.1.2	Recommendation .....	12
4.2	Mercury-Containing Lamps .....	13
4.3	Results .....	13
4.4	PCB-containing Caulking and Glazing Compounds .....	13

### Appendices

- APPENDIX A - ASBESTOS SAMPLE RESULTS AND CHAIN OF CUSTODY
- APPENDIX B - LEAD PAINT TESTING PROCEDURES AND EQUIPMENT
- APPENDIX C - LEAD TESTING FIELD DATA SHEETS
- APPENDIX D - PCB IN CAULK AND GLAZING RESULTS AND CHAIN OF CUSTODY
- APPENDIX E - PHOTOGRAPHS

# 1 Introduction

From May 4, 2010 through May 6, 2010, Fuss & O'Neill EnviroScience, LLC (EnviroScience) Environmental Technician, Willie L. Thompson III, a State of Connecticut Licensed Asbestos and Lead Paint Inspector, performed a hazardous materials survey of the former Witt Elementary School, which is slated for renovation.

This inspection was performed in response to the planned renovation of selected areas of the school, and consisted of a survey for asbestos containing materials (ACM), a screening of painted surfaces for lead and an evaluation of fluorescent light fixtures for PCB ballasts and light tubes for mercury.

The interior and exterior of the target areas were inspected in accordance with EnviroScience's written proposal dated April 20, 2010. The school building was earlier inspected for asbestos by Brooks Safe and Sound in 1991. EnviroScience used the report of this survey to avoid duplication of sampling.

# 2 Asbestos Inspection

During this inspection, suspect ACM were separated into three USEPA categories. These categories are: thermal system insulation (TSI), surfacing ACM, and miscellaneous ACM. 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 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 materials include all ACM not listed in thermal or surfacing, such as linoleum, vinyl asbestos flooring, and ceiling tiles.

All suspect ACM were sampled. Materials that were sampled were analyzed by Polarized Light Microscopy (PLM). If suspect ACM was not sampled, it was assumed to contain asbestos.

Finally, all ACM were quantified in linear and square footage, depending on the nature of the material. The asbestos content, quantities, and locations of ACM identified by bulk sample analysis are listed in *Table 1* of the Results section.

## 2.1 Results

Utilizing the USEPA protocol and criteria, the following materials were determined to be ACM:

**TABLE 1**

LOCATION	MATERIAL TYPE	% ASBESTOS	QUANTITY	SAMPLE ID
<b>INTERIOR</b>				
Hallways, stairwells	9" x 9" Black Floor Tile	5 % Chrysotile	5,200 SF	0504WT03A
Kitchen, Room 110; Room 111	9" x 9" Green Floor tile	8 % Chrysotile	1,900 SF	0504WT05A

LOCATION	MATERIAL TYPE	% ASBESTOS	QUANTITY	SAMPLE ID
Classrooms	Window Glazing compound(wood windows)	2.25 % Chrysotile	66 Windows	0504WT16A
Throughout classrooms, offices, stairwells(1937 Section)	Ceiling plaster skim coat	1.50 % Chrysotile	23,000 SF	0505WT001A
Cafeteria, rooms across from cafeteria, hall by gymnasium (west end)	9" x 9" Black and brown checker floor tile	5 % Chrysotile	2,300 SF	0505WT003B
Cafeteria, rooms across from cafeteria, hall by gymnasium (west end)	Mastic from Black/brown checkered 9" x 9" floor tile	2.75 % Chrysotile	2,300 SF	0505WT004A
Rooms across from cafeteria	Mastic from Brown 9" x 9" floor tile	4 % Chrysotile	2,40 SF	0505WT006A
Throughout classrooms, bathrooms and hallways and stairwells (1953 Section)	Ceiling plaster rough coat	5 % Chrysotile <1-3 %**	12,000 SF	0505WT013A 90C003-3,5** 90J010-43,** 2400-6172-1** 2400-6171-3** SF0191-BA, BB**
Mechanical room next to north east stairwell (top level)	Duct Adhesive	1.50 % Chrysotile	2 SF	0506WT05A
Boiler room	Breeching insulation	None Detected* 20-40%**	140 SF	0506WT10 617,2400-5968-3
Boiler room	Tank insulation	None Detected*	200 SF	0506WT11
Boiler room	Boiler insulation	None Detected*	45 SF	0506WT13
Boiler room, tunnels, Lower level, wall cavities	Pipe Insulation	20-70 % **	3,000 LF	617,619,620,621** 2400-5953-5**
Boiler room, tunnels, Lower level, wall cavities	Mudded insulation on pipe fittings	20-40%**	700 each	2400-5966-7
<b>EXTERIOR</b>				
Gymnasium, rooms across from cafeteria , cafeteria, stairwells	Window Glazing (Metal windows)	5 % Chrysotile	45 Windows	0505WT008C
Gym roof	Mastic on terracotta caps	10 % Chrysotile	100 LF	0505WT024A
1953 roof	Built up roof	5 % Chrysotile	2706 SF	0505WT029A

LF = Linear Feet, SF = Square Feet

\* Confirmatory sampling- material was previously sampled and found to be ACM

\*\* Results from previous inspection done by Brooks Safe and Sound. Some of the material is buried in walls and above ceilings that may not be impacted by renovations.

Utilizing the USEPA protocol and criteria, the following materials were determined to be non-ACM:

**TABLE 2**

LOCATION	MATERIAL TYPE	SAMPLE ID
1st floor hallway, stairwells, kitchen, custodial back hallway, hall by Gymnasium(west end), stage area, 2 <sup>nd</sup> floor rescue area(by elevator)	12" x 12" Blue and orange checker floor tile	0504WT01A-C
1st floor hallway, stairwells, kitchen, custodial back hallway, hall by Gymnasium(west end), stage area, 2 <sup>nd</sup> floor rescue area(by elevator)	Associated mastic	0504WT02A-C
Hallways, stairwells, underneath carpet in room 115	Associated Mastic (9" x 9" black floor tile)	0504WT04A-C **
Kitchen, Room 110 ,room 111	Associated mastic	0504WT06A-C
Throughout classrooms(1 <sup>st</sup> floor)	Carpet Glue	0504WT07A-C
Throughout classrooms, hallways, offices	Black cove base (8 inch)	0504WT08A-B
Throughout classrooms, hallways, offices	Associated cove base glue	0504WT09A-B
Nurse's office, 1 <sup>st</sup> floor boy's bathroom, room 125, room 213, room 217	12" x 12" White speckled floor tile	0504WT10A-B
Nurse's office, 1 <sup>st</sup> floor boy's bathroom, room 125, room 213, room 217	Associated mastic	0504WT11A-B
Nurse's office, 2 <sup>nd</sup> floor hallway(1937 & 1953 section), Kitchen	12" x 12" Blue Floor tile	0504WT12A-B
Nurse's office, 2 <sup>nd</sup> floor hallway(1937 & 1953 section), Kitchen	Associated mastic	0504WT13A-B
Throughout classrooms, bathrooms and hallways	Wall plaster skim coat (1937)	0504WT14A-D
Throughout classrooms, bathrooms and hallways	Wall plaster rough coat (1937)	0504WT15A-D
Classrooms on first and second floors, offices	Window Caulking(wood Windows)	0504WT17A-C
Throughout classrooms, hallways, offices	Black Cove base (4 inch)	0504WT18A-B
Throughout classrooms, hallways, offices	Associated cove base glue	0504WT19A-B
Throughout classrooms, bathrooms and hallways ms	Ceiling plaster rough coat (1937)	0505WT002A-C ***
Rooms across from cafeteria	9" x 9" Brown floor tile	0505WT005A-C
Throughout classrooms(2 <sup>nd</sup> floor)	Carpet glue	0505WT007A-C
Kitchen	Light green 9" x 9" floor tile	0505WT009A-C
Kitchen	Associated mastic	0505WT010A-C
Classrooms	2x4 Ceiling tile	0505WT011A-B
Throughout classrooms, bathrooms and hallways	Ceiling plaster skim coat (1953 Section)	0505WT012A-B

LOCATION	MATERIAL TYPE	SAMPLE ID
Throughout classrooms, bathrooms and hallways ms	Wall plaster skim coat (1953 Section)	0505WT014A-B
Throughout classrooms, bathrooms and hallways ms	Wall plaster rough coat (1953 Section)	0505WT015A-B
West Entrance (lower level)	Door Caulking Type I	0505WT016A-B
East Entrance(1 <sup>st</sup> floor)	Door Caulking Type II	0504WT17A-C
Northeast entrance, Southeast entrance	Door Caulking Type III	0505WT018A-B
Exterior Gym entrance	Door Caulking Type IV	0504WT019A-B
Bathrooms	Ceramic Wall tile adhesive	0505WT020A-C
1937 roof	Penetration Flashing	0505WT021
1937 roof	Glue behind membrane on parapet wall	0505WT022
1937 roof	Built up roof	0505WT023A-C
Gym roof	Built up roof	0505WT025A-B
Low roof adjacent to gymnasium	Membrane with adhesive	0505WT026
1953 roof	Penetration flashing	0505WT027
1953 roof on parapet wall	Glue behind membrane on parapet wall	0505WT028
1953 roof	Built up roof	0505WT029A-B
1991 low roof-middle, 1991 high roof-middle	Built up roof	0505WT030A-B
Gymnasium, Cafeteria, Stairwells, Rooms across from cafeteria	Window Caulking(metal windows	0505WT032A-C
Blue Cove base	Main office	0506WT01A-B
Cove base glue	Main office	0506WT02A-C
Cafeteria, classrooms, nurses' office	Glue Daubs	0506WT03A-C
Boiler room	Vibration damper	0506WT04A-B
Room B-01	Adhesive under brown rubber flooring	0506WT06A-B
Entrance to Room B-02 Storage	Adhesive under black rubber flooring	0506WT07A-B
Cafeteria	Acoustic tile(light)	0506WT08A-C
Small storage room inside boiler room	Acoustic tile(dark)	0506WT09A-B

\*\* Floor tile tested positive for ACM. During renovations/demolition activities, any impact of the floor tile may cause contamination of the mastic

\*\*\* Ceiling plaster skim coat tested positive for ACM. During renovations/demolition activities, any impact of the skim coat may cause contamination of the rough coat.

## 2.2 Discussion

The USEPA defines any material that contains greater than one percent (>1%) asbestos, utilizing PLM, as being an ACM. Materials that are identified as "none detected" are specified as not containing asbestos. At EnviroScience, materials that are identified as containing less than four percent (<4%) asbestos are analyzed further utilizing the "point-counting" technique to verify asbestos content. This policy is supported by USEPA requirements for "point-counting" confirmation of low level PLM results. The following samples were analyzed by point-counting based on initial PLM results of <4% asbestos.



**TABLE 3**

<b>SAMPLE ID</b>	<b>LOCATION</b>	<b>MATERIAL</b>	<b>% ASBESTOS</b>	<b>Quantity</b>
0504WT16A	Classrooms	Window Glazing compound (wood windows)	2.25 % Chrysotile	66 Windows
0505WT001A	Throughout classrooms, offices, Stairwells (1937 section)	Ceiling plaster skim coat (1937)	1.50 % Chrysotile	23,000 SF
0505WT004A	Cafeteria, rooms across from cafeteria, hall by gymnasium (west end)	Mastic from black/brown checkered 9" x 9" floor tile	2.75 % Chrysotile	2,300 SF
0506WT05A	Mechanical room next to north east stairwell (top level)	Duct adhesive	1.50 % Chrysotile	2 SF

## 2.2.1 Observations and Justifications

### **Floor tile and mastic (12" x 12" Blue and orange checker)**

This material was found throughout the first floor hallway, by the stage area west stair in fair condition. The material was found to be non-ACM

### **Floor tile and mastic (9" x 9" Black)**

This material was found throughout the stairwells, hallways on all three floors and underneath the carpet in Rooms 115 and 117. The material is in poor condition. The floor tile was found to be ACM, while the mastic was found to be non-ACM

### **Floor tile and mastic (12" x 12" White speckled)**

This material was found in the Nurse's office, Room 125, Rooms 213 and 217, Boy's bathroom on the first floor hallway. The material is in fair condition. The materials was found to be non-ACM

### **Floor tile and mastic (9" x 9" Green)**

This floor tile and associated mastic was in fair condition and was observed in Rooms 110,111, kitchen and B-01. The floor tile was found to be ACM, while the mastic was found to be non-ACM

### **Floor tile and mastic (12" x 12" Blue)**

The blue floor was found in fair condition in the second floor hallway, kitchen, and nurse's office. The floor tile and mastic were found to be non-ACM

### **Floor tile and mastic (9" x 9" light green)**

The light green floor tile and mastic was observed in the kitchen as the top layer of flooring. Underneath this floor tile was the layer of green floor tile and associated mastic found in Rooms 110 and 111. Samples of both floor tiles were collected. The light green floor tile and associated mastic were found to be non-ACM.

**Floor tile and mastic (9" x 9" Black and brown checker)**

The floor tile and mastic were found in the lower level inside the cafeteria and rooms across the hallway from the cafeteria. The floor tile was in poor condition. The floor tile was found to be non-ACM, while the mastic was found to be ACM

**Floor tile and mastic (9" x 9" Brown)**

The floor tile and mastic were found in the lower level in rooms across the hallway from the cafeteria. The floor tile was in fair condition. The floor tile was non-ACM while the mastic was found to be asbestos containing material (ACM)

**Carpet Glue**

The carpet glue was found throughout the school where carpet existed. The material was sampled and found to be non-ACM. In room's 115 and 117 a layer of 9" x 9" black floor tile and mastic was found underneath the carpet.

**Wall Plaster**

The plaster is located throughout the building. Separate samples were taken from the 1937 section and 1953 section of the school. The material was sampled previously by Brooks Safe and Sound (Brooks Laboratory, Inc) in the 1953 section. According to those results the plaster in the 1953 classrooms was non-ACM. The material sampled during this inspection was found to be non-ACM as well.

**Ceiling Plaster**

The plaster is located throughout the building. Separate samples were taken from the 1937 section and 1953 section of the school. This material was sampled previously by Brooks Safe and Sound (Brooks Laboratory, Inc) and according to those results the plaster in the 1953 hallways and classrooms were ACM. The classrooms and hallways in the 1937 section were non-ACM. During this survey, the ceiling plaster rough coat in the 1953 section was found to be ACM. The ceiling plaster skim coat in the 1937 section was also found to be ACM.

**Black Cove base and associated glue**

The 8-inch cove base is found throughout the school in classrooms, offices, and hallways. The materials were sampled and found to be non-ACM

**Window glazing (wood windows)**

The window glazing was observed throughout the classrooms and offices on the first and second floor in poor condition. Three (3) samples were collected for analysis and the material was determined to be ACM

**Window caulking (wood windows)**

The window caulking was observed throughout the classrooms and offices on the first and second floor in poor condition. Three (3) samples were collected for analysis and the material was determined to be non-ACM

**Black Cove base and associated glue**

The 4-inch cove base and glue is found throughout the school in classrooms and offices. Two samples of each were collected. The materials were analyzed and found to be non-ACM.

**Window glazing (metal windows)**

The interior window glazing was observed throughout the Stairwells, lower level rooms, cafeteria and gymnasium. Three (3) samples were collected for analysis and the material was determined to ACM.

**Window caulking (metal windows)**

The interior window glazing was observed throughout the Stairwells, lower level rooms, cafeteria and gymnasium. Three (3) samples were collected for analysis and the material was determined to be non-ACM.

**Door Caulking**

There were four types of exterior door caulking observed throughout the School. Two to three samples were collected of each type. All door caulking was determined to be non-ACM.

**2' x 4' Ceiling tile**

The ceiling was observed in classrooms in the 1937 section of the school. Two (2) samples were collected for analysis and the material was determined to be non-ACM.

**Ceramic Wall tile Adhesive**

Three samples were collected from the boy's bathroom on the first floor. This material is found in all bathrooms; however, the town representative only allowed for destructive sampling in this bathroom. The condition of the material ranged from good to poor, depending on the bathroom. The material was analyzed and found to be non-ACM.

**Penetration flashing**

The material was observed on the 1937 and 1953 roof. A sample was collected from each roof. The material was found to be non-ACM.

**Glue behind the membrane**

The material was found on the parapet wall of the 1937 and 1953 roofs. One sample was collected from each roof and was determined to be non-ACM.

**Built up roof**

The material was observed on the Gym, 1937, 1953 and 1991 roofs. Multiple samples were collected from each roof. The 1991 low roof on the south side was sampled at the center and towards the back edge near the original (1953) brick wall. The 1991 high roof was sampled in the middle and near the edge of the roof adjacent to the 1953 roof. Three samples were collected from various points on the 1937 roof, two from the gym roof and two from the 1953 roof as well. The 1953 roof consisted of a rubber like membrane on the surface. Underneath were one to three layers of Poly Iso, a base material, Fiber board/ "fesco" board and then the metal deck. The low and high 1991 roofs consisted of a shingle like material (cold application) a base material (1-2 layers), "Poly Iso", followed by the deck. The 1937 roof consisted of a rubber like membrane on the surface a layer of "Poly Iso" followed by the decking. Additionally along the back edge of the low 1991 roof a layer of "fesco" board was found in between the base material and "Poly Iso". The decking for the low roof is concrete. The gym roof consisted of the membrane (rubber like material) "Poly iso", followed by the wood deck. The materials on 1991 roofs were found to be non-ACM. The material on the 1937 and gym roofs were found to be non-ACM. The built up roof on the 1953 section underneath the rubber membrane, was found to be ACM.

**Mastic on terracotta caps**

This material was observed on the Gym roof. Two samples were collected and the material was found to be ACM.

**Blue Cove Base and glue**

This material was observed in the main office in good condition. The material was found to be non-ACM

**Glue daubs behind black boards**

There are black boards and tack boards throughout the school, but there was no access behind the boards without potentially damaging them. Loose black boards in the cafeteria and a missing board in the nurse's office allowed for sampling of this material. Three samples were collected. The material was found to be non-ACM.

**Vibration damper**

This material was observed in the boiler room above the small storage room. The material was in fair condition as well. The material was analyzed and found to be non-ACM.

**Duct Adhesive**

The duct adhesive was seen on an air duct in the mechanical space adjacent to the north east stairwell top level. The material was in poor condition as it was loose and/or falling apart. The material was found to be ACM.

**Adhesive under rubber flooring**

The adhesive under the brown flooring was located in room B-01 while the black flooring adhesive was located at the entrance to B-02 storage. Both materials were in good condition. They were analyzed and found to be non-ACM.

**Ceramic floor tile Adhesive**

Three samples were collected from the boy's bathroom on the first floor. This material is found in all bathrooms, however the town representative only allowed for destructive sampling in this bathroom. The condition of the material ranged from good to poor, depending on the bathroom. The material was analyzed and found to be non-ACM.

**Acoustic tile**

Found in the cafeteria as a light colored material and in the boiler room small storage as a darker material. Both materials were in good condition and found to be non-ACM.

**Breeching, Boiler and tank insulation**

These three materials were previously sampled by Brooks Safe and Sound (Brooks Laboratory Inc) back in 1991. The materials were all found to be ACM during Brooks' inspection. One confirmatory sample was collected of each material. The material was observed to be in good to fair condition and all was found to be non-ACM. The reason for the discrepancy may be the result of sampling locations. The materials may be a mix of ACM and non-ACM, so depending on where the samples were collected, different results are possible. The material should be treated as asbestos containing material regardless of the most recent results.

## 2.3 Conclusion

All ACM is identified in Section 2.1 (*Table 1*) must be removed by a State of Connecticut Licensed Asbestos Abatement Contractor prior to building demolition. This is a requirement of the State of Connecticut Department of Public Health (CT DPH) Standards for Asbestos Abatement.

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.

Please see *Appendix A* for the chain-of-custody and sample results.

## 2.4 Cost of Abatement

The estimated cost of abating the ACM listed in Section 2.1, *Table 1* was determined using unit prices currently associated with industry standards. Costs were then adjusted using job cost multipliers to account for specific job conditions. This is an estimate only and is solely intended to assist the client for budgetary purpose. Actual cost will vary inversely with the size of the project and will depend on market condition. The estimated removal costs are as follows:

**TABLE 4**

LOCATION	MATERIAL	QUANTITY	UNIT COST	TOTAL COST
Hallways, stairwells	9" x 9" Black Floor Tile	5,200 SF	\$5/SF	\$26,000.00
Kitchen, Room 110, room 111	9" x 9" Green Floor tile	1,900 SF	\$5/SF	\$9,500.00
Cafeteria, rooms across from cafeteria, hall by gymnasium (west end)	9" x 9" Black and brown checker floor tile	2,300 SF	\$5/SF	\$11,500.00
Rooms across from cafeteria	Mastic from Brown 9" x 9" floor tile	240 SF	\$5/SF	\$1,200.00
Throughout classrooms, bathrooms and hallways and stairwells (1953 Section)	Ceiling plaster rough coat	12,000 SF	\$8/SF	\$96,000.00
Boiler room	Breeching insulation	140 SF	\$15/SF	\$2,100.00
Boiler room	Tank insulation	200 SF	\$15/SF	\$3,000.00
Boiler room	Boiler insulation	450 SF	\$15/SF	\$6,750.00
Boiler room, tunnels, lower level rooms, wall cavities	Pipe insulation	3,000 LF	\$15/LF	\$45,000.00
Boiler room, tunnels, lower level rooms, wall cavities	Mudded insulation on pipe fittings	700 each	\$25/each	\$17,500.00
Gymnasium, rooms across from cafeteria, cafeteria, stairwells	Window Glazing (Metal windows)	45 Windows	\$250/each	\$11,250.00
Gym roof	Mastic on terracotta caps	100 LF	\$15/LF	\$1,500.00
1953 roof	Built up roof	2,706 SF	\$6/SF	\$16,236.00

LOCATION	MATERIAL	QUANTITY	UNIT COST	TOTAL COST
Classrooms	Window Glazing compound(wood Windows)	66 Windows	\$200 each	\$13,200.00
Throughout classrooms, offices, Stairwells(1937 section)	Ceiling plaster skim coat(1937)	23,000 SF	\$8/SF	\$184,000.00
Cafeteria, rooms across from cafeteria, hall by gymnasium(west end)	Mastic from Black/brown checkered 9" x 9" floor tile	2,300 SF	\$5/SF	\$11,500.00
Mechanical room next to north east stairwell (top level)	Duct adhesive	2 SF	\$20/SF	\$40.00
PCB/DEHP ballast/mercury lamps	Throughout the building	7	N/A	\$1,500.00
<b>SUBTOTAL:</b>				<b>\$457,776.00</b>
<b>~10% CONTINGENCY:</b>				<b>\$45,784.00</b>
<b>TOTAL:</b>				<b>\$503,560.00</b>

During the design phase, considerations for Alternative Work Practices (AWPs) can be considered and other options for managing asbestos in place which could impact this worst case cost estimate.

### 3 Lead-Based Paint Screening

A lead paint screen was performed at the former Witt Elementary School in Stafford, Connecticut by EnviroScience's Environmental Technician, Willie L. Thompson on May 4, 2010. A direct reading X-ray fluorescence (XRF) analyzer was used to perform the screening. The screen was conducted in accordance with the protocol outlined in the attached document: Testing Procedures and Equipment (*Appendix B*).

For the purpose of this screen, various interior and exterior components representing the initial painting history of the building and any building-wide repainting by the owners/managers of these building components were tested. Of course, individual repainting efforts are not discoverable in such a limited testing program. The purpose of this screen was to identify trends in the painting history of the building in order to determine if Toxicity Characteristic Leachate Procedure (TCLP) analysis was required.

The building was constructed with a brick and metal siding exterior with metal window and door systems. The interior is sheetrock with concrete floors.

#### 3.1 Results

The screen indicated consistent painting trends throughout the building interior and exteriors. Many painted components were determined to contain toxic levels of lead (greater than 1.0 milligrams of lead per square centimeter of paint).



**Table 5**

ITEM	LOCATION	READING (MG/CM <sup>2</sup> )
B side lower wall (plaster)	Room 113	2.7
C side lower wall (plaster)	Room 113	6.1
A side wall (plaster)	Main Hallway-1 <sup>st</sup> floor	1.3
B side wall (plaster)	Main Hallway-1 <sup>st</sup> floor	1.1
Riser (metal)	Main Hallway-1 <sup>st</sup> floor	1.4
Stringer (metal)	Main Hallway-1 <sup>st</sup> floor	1.5
Baseboard (metal)	Main Hallway-1 <sup>st</sup> floor	1.6
Baluster (metal)	Main Hallway-1 <sup>st</sup> floor	1.8
Railing cap (metal)	Main Hallway-1 <sup>st</sup> floor	1.4
Newel post (metal)	Main Hallway-1 <sup>st</sup> floor	1.5
Hand rail (metal)	Main Hallway-1 <sup>st</sup> floor	2.5
A side upper wall (brick)	Hallway below Gym	4.3
B side upper wall (brick)	Hallway below Gym	2.2
C side upper wall (brick)	Hallway below Gym	4.8
D side lower wall (brick)	Hallway below Gym	8.7
Wall molding	Hallway below Gym	3.9
B side lower wall (plaster)	2 <sup>nd</sup> floor hallway	2.7
D side lower wall (plaster)	2 <sup>nd</sup> floor hallway	4.4
B side door (metal)	2 <sup>nd</sup> floor hallway	7.3
B side door casing (metal)	2 <sup>nd</sup> floor hallway	>9.9
B side door jamb (metal)	2 <sup>nd</sup> floor hallway	>9.9
Basement sash (metal)	Exterior C side	>9.9
Frame (metal)	Exterior C side	6.4
Window sash (wood)	Exterior B side	2.5
Window Sash (metal)	Exterior B side	5.4
Lower trim	Exterior B side	2.7
Basement sash	Exterior B side	1.9
Window trim (wood)	Exterior D side	>9.9
Window Sash (wood)	Exterior D side	>9.9

Due to the infrequency and absence of lead paint in most places, a TCLP was not conducted.

**Disclaimer:** The information contained in this report concerning the presence or absence of lead paint does not constitute a comprehensive lead inspection under Connecticut regulations, Section 19a-111-1 to 11. The surfaces tested represent only a portion of those surfaces that would be tested to determine whether the premises are in compliance with Connecticut regulations.

The Contractor shall be aware that OSHA has not established a level of lead in a material below which 29 CFR 1926.62 does not apply. The Contractor shall comply with exposure assessment criteria, interim worker protection and other requirements of the regulation as necessary to protect workers and building occupants.

The testing results are provided as *Appendix C* in this report.

## 3.2 Conclusion

Toxic levels of lead (greater than 1.0 milligrams of lead per square centimeter of paint) Were identified on the building components noted in the table above.

## 4 PCB-Containing Fluorescent Ballasts and Caulking and Glazing Compound, Mercury-Containing Lamps

### 4.1 PCB-Containing Fluorescent Ballasts

On May 7, 2010, EnviroScience's representative, Willie L. Thompson III, performed an inspection of representative fluorescent light fixtures to identify possible PCB-containing ballasts.

Typical ballasts were examined in-place on their fixtures for evidence of "No PCB" labels or for manufacturer's information that could be used to determine the PCB content. If neither of the above methods could be used to determine the existence of PCBs, the ballasts were assumed to contain PCBs.

#### 4.1.1 Results

The following ballasts had "No-PCB" labels:

**TABLE 6**

LOCATION	QUANTITY
Throughout classrooms, offices bathrooms and hallways (except in northeast stairwell where the "No PCBs" label was not observed)	329
<b>TOTAL:</b>	<b>329</b>

The ballasts in the following areas were inaccessible and therefore, should be assumed to contain PCB unless further inspection rules out the existence of PCBs.

**TABLE 7**

LOCATION	QUANTITY
Room 132 Room 132B,C	6
northeast stairwell-did not observe a "No PCBs" label	1
<b>TOTAL:</b>	<b>7</b>

#### 4.1.2 Recommendation

Nearly all fluorescent light ballasts manufactured prior to 1979 contain capacitors that contain PCBs. Ballasts installed as late as 1985 may contain PCB capacitors. Fluorescent light ballasts that are not labeled as "No-PCBs" must be assumed to contain PCBs unless proven otherwise by quantitative analytical testing.

Capacitors in fluorescent light ballasts labeled as non-PCB containing may contain diethylhexyl phthalate (DEHP). DEHP was the primary substitute to replace PCBs for small capacitors in fluorescent lighting ballasts. DEHP is a toxic substance, a suspected carcinogen and is listed under RCRA and the Superfund law as a hazardous waste. Therefore, Superfund liability exists for land filling DEHP ballasts.

## 4.2 Mercury-Containing Lamps

On May 4, 2010 EnviroScience's representative, Willie L. Thompson III, performed an inventory of mercury lamps, thermometers, and mercury switches. These fixtures were inventoried in-place.

## 4.3 Results

No mercury thermometers, switches, or gauges were identified. The following areas have fluorescent lamps:

**TABLE 8**

LOCATION	QUANTITY
Throughout classrooms, offices bathrooms and hallways (except in northeast stairwell where the "No PCBs" label was not observed)	493
<b>TOTAL:</b>	<b>493</b>

## 4.4 PCB-containing Caulking and Glazing Compounds

Two types of window caulk and glazing were identified in the building window systems. Both types of caulk and glazing compounds were sampled and analyzed for PCB content. The results of the PCB analysis are:

**TABLE 9**

SAMPLE ID	LOCATION	MATERIAL	RESULT	PCB Containing
5410SWC01	Metal window side C	Glazing Compound	ND	No
5410SWC02	Wood Window side A	Caulking Compound	ND	No
5410SWC03	Metal window lower side A	Caulking Compound	ND	No
5410SWC04	Wood window side A	Glazing Compound	ND	No

\*A material is considered PCB containing when it has a PCB content > 50PPM.

\*\*ND= none detected

Report prepared by Environmental Technician Willie L. Thompson III.

Reviewed by:

  
Stephen W. Connelly  
Senior Vice President

## **Appendix A**

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### **Asbestos Sample Results and Chain of Custody**



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Project: 20080836.A1E

Customer ID: ENVI54

Customer PO:

Received: 05/08/10 10:00 AM

EMSL Order: 041009516

EMSL Proj:

Analysis Date: 5/9/2010

**Test Report: Asbestos Analysis of Bulk Material via EPA 600/R-93/116. Quantitation  
using 400 Point Count Procedure.**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0504WT16A 041009516-0036	ROOM 129	Grayish/White Fibrous Heterogeneous		97.75% Non-fibrous (other)	2.25% Chrysotile

Analyst(s)

Chris Little (1)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036



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Customer PO:

Received: 05/08/10 10:00 AM

EMSL Order: 041009516

EMSL Proj:

Analysis Date: 5/9/2010

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0504WT01A 041009516-0001	1ST FLOOR HALLWAY (1953 SECTION)	Blue Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT01B 041009516-0002	1ST FLOOR HALLWAY (1937 SECTION)	Orange Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT02A 041009516-0003	1ST FLOOR HALLWAY (1953 SECTION)	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0504WT02B 041009516-0004	1ST FLOOR HALLWAY (1937 SECTION)	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0504WT03A 041009516-0005	1ST FLOOR HALLWAY (1937 SECTION)	Brown/Black Non-Fibrous Heterogeneous		95% Non-fibrous (other)	5% Chrysotile
0504WT03B 041009516-0006	LOWER LEVEL HALLWAY				Stop Positive (Not Analyzed)
0504WT04A 041009516-0007	1ST FLOOR HALLWAY (1937 SECTION)	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Suggest TEM

Analyst(s)

Chris Little (40)

Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. The test results meet all NELAC requirements unless otherwise specified.

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EMSL Proj:  
 Analysis Date: 5/9/2010

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0504WT04B 041009516-0008	LOWER LEVEL HALLWAY	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
Suggest TEM					
0504WT05A 041009516-0009	ROOM 110	Green Non-Fibrous Heterogeneous		92% Non-fibrous (other)	8% Chrysotile
0504WT05B 041009516-0010	ROOM B-01 (LOWER LEVEL)				Stop Positive (Not Analyzed)
0504WT06A 041009516-0011	ROOM 110	Grayish Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT06B 041009516-0012	ROOM B-01 (LOWER LEVEL)	Grayish Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT07A 041009516-0013	ROOM 111	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0504WT07B 041009516-0014	ROOM 111	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

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 Project: 20080836.A1E

EMSL Proj:  
 Analysis Date: 5/9/2010

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0504WT07C 041009516-0015	ROOM 115	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0504WT08A 041009516-0016	1ST FLOOR HALLWAY (1953 SECTION)	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0504WT08B 041009516-0017	ROOM 210	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0504WT09A 041009516-0018	1ST FLOOR HALLWAY (1953 SECTION)	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT09B 041009516-0019	ROOM 210	Tan/Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT10A 041009516-0020	NURSES OFFICE	White/Grayish Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT10B 041009516-0021	ROOM 129	White/Grayish Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Chris Little (40)

Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

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 EMSL Order: 041009516  
 EMSL Proj:  
 Analysis Date: 5/9/2010

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0504WT11A 041009516-0022	NURSES OFFICE	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0504WT11B 041009516-0023	ROOM 129	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0504WT12A 041009516-0024	NURSES OFFICE	Blue Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT12B 041009516-0025	2ND FLOOR HALLWAY (1953 SECTION)	Blue Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT13A 041009516-0026	NURSES OFFICE	Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT13B 041009516-0027	2ND FLOOR HALLWAY (1953 SECTION)	Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT14A 041009516-0028	NURSES OFFICE BATHROOM	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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Stephen Siegel, CIH, Laboratory Manager  
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Attn: **Willie Thompson**  
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**146 Hartford Road**  
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Fax: (413) 647-0018 Phone: (860) 646-2469  
 Project: **20080836.A1E**

Customer ID: ENVI54  
 Customer PO:  
 Received: 05/08/10 10:00 AM  
 EMSL Order: 041009516  
 EMSL Proj:  
 Analysis Date: 5/9/2010

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0504WT14B 041009516-0029	ROOM 117 (1937)	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT14C 041009516-0030	ROOM 218 (1937)	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT14D 041009516-0031	SOUTHEAST STAIRWELL (1937)	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT15A 041009516-0032	NURSES OFFICE BATHROOM	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT15B 041009516-0033	ROOM 117 (1937)	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT15C 041009516-0034	ROOM 218 (1937)	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT15D 041009516-0035	SOUTHEAST STAIRWELL (1937)	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Chris Little (40)

Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. The test results meet all NELAP requirements unless otherwise specified.

Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036



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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0504WT16B 041009516-0037	ROOM 210				Stop Positive (Not Analyzed)
0504WT16C 041009516-0038	ROOM 220				Stop Positive (Not Analyzed)
0504WT17A 041009516-0039	ROOM 129	Tan/Grayish Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT17B 041009516-0040	ROOM 210	Tan/Grayish Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT17C 041009516-0041	ROOM 220	Tan/Grayish Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0504WT18A 041009516-0042	PRINCIPALS OFFICE	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0504WT18B 041009516-0043	ROOM 211	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Chris Little (40)

Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036



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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0504WT19A 041009516-0044	PRINCIPALS OFFICE	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0504WT19B 041009516-0045	ROOM 211	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Chris Little (40)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036





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# **SAMPLE LOG FOR ASBESTOS BULK**

Project Name: Former W-4 Elementary School

Sheet 1 of 4

Building: Former W-4 Elementary School

Project No. 20080836-410

Project Manager: Stephen Connolly

Sample ID	Sample Location	Material	Result (%)
0504WT01A	1st Floor Hallway (1953 section)	12x12" Orange & Blue Checker Floor tile	
01B	1st Floor Hallway (1937 section)		
0504WT02A	1st Floor Hallway (1953 section)	Mastic	
02B	1st Floor Hallway (1937 section)		
0504WT03A	1st Floor Hallway (1937 section)	9"x9" Black Floor tile	
03B	Lower level Hallway		
0504WT04A	1st Floor Hallway (1937 section)	Mastic	
04B	Lower level Hallway		
0504WT05A	Room 110	9"x9" Green Floor tile	
05B	Room B-01 (Lower level)		
0504WT06A	Room 110	Mastic	
06B	Room B-01 (Lower level)		

Analysis Method: ☒ PLM ☐ Other

Turnaround Time 24hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: \_\_\_\_\_. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 413-647-0018.

Special Instruction: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 400 point count all samples of asbestos content < 1%, positive stop on all point counts.

Samples collected by: Willie Thompson Date: 5/4/10 Time: \_\_\_\_

Samples [Rec'd]/[Sent by] II Date: II Time: \_\_\_\_

Samples Received by: DMB-PX-10A Date: 5-8-10 Time: \_\_\_\_

Shipped To: ☐ EMSL State: \_\_\_\_\_ ☐ Other: \_\_\_\_\_

Method of Shipment: ☐ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other


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# **SAMPLE LOG FOR ASBESTOS BULK**

Project Name: Former West Elementary SchoolSheet 2 of 4Building: SchoolProject No. 20080836.A1EProject Manager: Stephen Connolly

Sample ID	Sample Location	Material	Result (%)
0504WT07A	Room 111	Carpet tile	
07B	Room 111		
07C	Room 115		
0504WT08A	1st Floor Hallway (1953 section)	Black Cove base (8 inch)	
08B	Room 210		
0504WT09A	1st Floor Hallway (1953 section)	Cove base blue	
09B	Room 210		
0504WT10A	Nurse's Office	12x12" White speckled floor tile	
10B	Room 129		
0504WT11A	Nurse's Office	Master	
11B	Room 129		

Analysis Method: ☒ PLM ☐ OtherTurnaround Time 24 hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: \_\_\_\_\_. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 413-647-0018.

Special Instruction: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 100 point count all samples of asbestos content < 1%, positive stop on all point counts.Samples collected by: Willie Thompson Date: 5/4/10 Time: \_\_\_\_\_

Samples [Rec'd] [Sent by] [\_\_\_\_\_] Date: [\_\_\_\_\_] Time: \_\_\_\_\_

Samples Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Shipped To: ☐ EMSL State \_\_\_\_\_ ☐ Other \_\_\_\_\_Method of Shipment: ☐ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other \_\_\_\_\_



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# SAMPLE LOG FOR ASBESTOS BULKS

Project Name: Farmer Wilt Elementary School Sheet 3 of 4  
Building: School Project No. 2008 0836-11F  
Project Manager: Stephen Connolly

Sample ID	Sample Location	Material	Result (%)
0504WT12A	Nurse's Office	12x12" Blue Fiber tile	
12B	2nd Floor Hallway (1953 section)	↓	
0504WT13A	Nurse's Office	Mastic	
13B	2nd Floor Hallway (1953 section)	↓	
0504WT14A	Nurse's Office Bedroom	Wall Plaster Skim Coat	
14B	Room 117 (1937)	↓	
14C	Room 218 (1937)	↓	
14D	South East Stairwell (1937)	↓	
0504WT15A	Nurse's Office Bedroom	Wall Plaster Rough Coat	
15B	Room 117 (1937)	↓	
15C	Room 218 (1937)	↓	
15D	South East Stairwell (1937)	↓	

Analysis Method: ☒ PLM ☐ Other

Turnaround Time 24hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: \_\_\_\_\_. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 413-647-0018.

Special Instruction: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA-400 point count all samples of asbestos content < 1% positive stop on all point counts.

Samples collected by: Willie Thompson Date: 5/4/10 Time: \_\_\_\_\_

Samples Rec'd/Sent by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Shipped To: ☐ EMSL State \_\_\_\_\_ ☐ Other \_\_\_\_\_

Method of Shipment: ☐ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other \_\_\_\_\_



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## SAMPLE LOG FOR ASBESTOS BULKS

Project Name: Former Whit Elementary School  
Building: School

Sheet 4 of 4  
Project No. 20080836.41F

Project Manager: Stephen Connolly

Sample ID	Sample Location	Material	Result (%)
0504WT16A	Room 129	Window Glazing (Wood)	
16B	Art Room 210		
16C	Room 220		
0504WT17A	Room 129	Window Caulking (Wood)	
17B	Art Room 210		
17C	Room 220		
0504WT18A	Principal's Office	Black cube base (Hinch)	
18B	Room 211		
0504WT19A	Principal's Office	core base glue	
19B	Room 211		

Analysis Method: ☒ PLM ☐ Other

Turnaround Time 24 hrs

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: \_\_\_\_\_. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 413-647-0018.

Special Instruction: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 400 point count all samples of asbestos content < 4%, positive stop on all point counts.

Samples collected by: Willie Thompson Date: 5/4/10 Time: \_\_\_\_\_

Samples [Rec'd] [Sent by] [ ] Date: [ ] Time: [ ]

Samples Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Shipped To: ☐ EMSL State ☐ Other \_\_\_\_\_

Method of Shipment: ☐ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other \_\_\_\_\_

ANALYSIS OF  
ASBESTOS  
BULK SAMPLES



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Project: 20080836.A1E

Customer ID: ENVI54

Customer PO:

Received: 05/08/10 10:00 AM

EMSL Order: 041009514

EMSL Proj:

Analysis Date: 5/10/2010

### Test Report: Asbestos Analysis of Bulk Material via EPA 600/R-93/116. Quantitation using 400 Point Count Procedure.

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0505WT001A 041009514-0001	ROOM 221 (1937 SECTION)	Gray/Tan Non-Fibrous Heterogeneous	3.00% Cellulose 1.00% Fibrous (other)	94.50% Non-fibrous (other)	1.50% Chrysotile
0505WT002A 041009514-0004	ROOM 221 (1937 SECTION)	Gray/Tan Fibrous Heterogeneous	3.00% Cellulose 1.00% Fibrous (other)	96.00% Non-fibrous (other)	<0.25% Chrysotile
0505WT002B 041009514-0005	2ND FLOOR HALLWAY (1937 SECTION)	Gray/Tan Fibrous Heterogeneous	5.00% Cellulose 2.00% Fibrous (other)	93.00% Non-fibrous (other)	<0.25% Chrysotile
0505WT002C 041009514-0006	1ST FLOOR HALLWAY (1937 SECTION)	Gray/Tan Non-Fibrous Heterogeneous	3.00% Cellulose	97.00% Non-fibrous (other)	<0.25% Chrysotile
0505WT004A 041009514-0009	CAFETERIA	Black Non-Fibrous Heterogeneous	1.00% Cellulose	96.25% Non-fibrous (other)	2.75% Chrysotile
0505WT005A 041009514-0011	ROOM ACROSS FROM CAFETERIA	Brown Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	99.25% Non-fibrous (other)	0.75% Chrysotile
0505WT005B 041009514-0012	ROOM ACROSS FROM CAFETERIA	Brown Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	99.50% Non-fibrous (other)	0.50% Chrysotile
0505WT012A 041009514-0027	2ND FLOOR HALL (1953 SECTION)	White/Tan Non-Fibrous Heterogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
0505WT012B 041009514-0028	1ST FLOOR HALL (1953 SECTION)	White/Tan Non-Fibrous Heterogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile

Analyst(s)

Chris Little (3)

Wayne Froehlich (6)

Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036



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 Project: **20080836.A1E**

Customer ID: ENV154  
 Customer PO:  
 Received: 05/08/10 10:00 AM  
 EMSL Order: 041009514  
 EMSL Proj:  
 Analysis Date: 5/9/2010

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0505WT001B 041009514-0002	2ND FLOOR HALLWAY (1937 SECTION)				Stop Positive (Not Analyzed)
0505WT001C 041009514-0003	1ST FLOOR HALLWAY (1937 SECTION)				Stop Positive (Not Analyzed)
0505WT003A 041009514-0007	CAFETERIA				Stop Positive (Not Analyzed)
0505WT003B 041009514-0008	CAFETERIA	Black Non-Fibrous Heterogeneous		95% Non-fibrous (other)	5% Chrysotile
0505WT004B 041009514-0010	CAFETERIA				Stop Positive (Not Analyzed)
0505WT006A 041009514-0013	ROOM ACROSS FROM CAFETERIA	Black Non-Fibrous Heterogeneous	<1% Cellulose	96% Non-fibrous (other)	4% Chrysotile
0505WT006B 041009514-0014	ROOM ACROSS FROM CAFETERIA				Stop Positive (Not Analyzed)

Analyst(s)

Chris Little (44)  
 Wayne Froehlich (6)

*Stephen Siegel*  
 Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

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 Customer PO:  
 Received: 05/08/10 10:00 AM  
 EMSL Order: 041009514  
 EMSL Proj:  
 Analysis Date: 5/9/2010

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0505WT007A 041009514-0015	MECH ROOM BY NORTHEAST STAIRWELL (TOP LEVEL)	Tan Non-Fibrous Heterogeneous	3% Cellulose 1% Synthetic	96% Non-fibrous (other)	None Detected
0505WT007B 041009514-0016	ROOM 220	Tan Non-Fibrous Heterogeneous	2% Cellulose 1% Synthetic	97% Non-fibrous (other)	None Detected
0505WT007C 041009514-0017	ROOM 219	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0505WT008A 041009514-0018	ROOM ACROSS FROM CAFETERIA	Tan Non-Fibrous Heterogeneous	<1% Cellulose 3% Fibrous (other)	97% Non-fibrous (other)	None Detected
Recommend TEM					
0505WT008B 041009514-0019	CAFETERIA	Gray Non-Fibrous Heterogeneous	<1% Cellulose 1% Fibrous (other)	99% Non-fibrous (other)	None Detected
Recommend TEM					
0505WT008C 041009514-0020	GYMNASIUM	Gray Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	95% Non-fibrous (other)	5% Chrysotile
0505WT009A 041009514-0021	KITCHEN	Green Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Chris Little (44)  
 Wayne Froehlich (6)

*Stephen Siegel*  
 Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

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 EMSL Proj:  
 Analysis Date: 5/9/2010

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0505WT009B 041009514-0022	KITCHEN	Green Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0505WT010A 041009514-0023	KITCHEN	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0505WT010B 041009514-0024	KITCHEN	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0505WT011A 041009514-0025	ROOM 218	Gray/White Fibrous Heterogeneous	50% Cellulose 40% Min. Wool	10% Non-fibrous (other)	None Detected
0505WT011B 041009514-0026	NURSES OFFICE	Gray/White Fibrous Heterogeneous	50% Cellulose 40% Min. Wool	10% Non-fibrous (other)	None Detected
0505WT013A 041009514-0029	2ND FLOOR HALL (1953 SECTION)	Gray/White Fibrous Heterogeneous		95% Non-fibrous (other)	5% Chrysotile
0505WT013B 041009514-0030	1ST FLOOR HALL (1953 SECTION)				Stop Positive (Not Analyzed)

Analyst(s)

Chris Little (44)  
 Wayne Froehlich (6)

*Stephen Siegel*  
 Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036



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Fax: (413) 647-0018 Phone: (860) 646-2469  
 Project: 20080836.A1E

Customer ID: ENVI54  
 Customer PO:  
 Received: 05/08/10 10:00 AM  
 EMSL Order: 041009514  
 EMSL Proj:  
 Analysis Date: 5/9/2010

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0505WT014A 041009514-0031	2ND FLOOR HALL (1953 SECTION)	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0505WT014B 041009514-0032	1ST FLOOR HALL (1953 SECTION)	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0505WT015A 041009514-0033	2ND FLOOR HALL (1953 SECTION)	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0505WT015B 041009514-0034	1ST FLOOR HALL (1953 SECTION)	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0505WT016A 041009514-0035	WEST ENTRANCE (LOWER LEVEL)	Gray/Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0505WT016B 041009514-0036	WEST ENTRANCE (LOWER LEVEL)	Gray/Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0505WT017A 041009514-0037	EAST ENTRANCE (1ST FLOOR)	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Chris Little (44)  
 Wayne Froehlich (6)

*Stephen Siegel*  
 Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036



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Customer ID: ENVI54  
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 EMSL Order: 041009514  
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 Analysis Date: 5/9/2010

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0505WT017B 041009514-0038	EAST ENTRANCE (1ST FLOOR)	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0505WT017C 041009514-0039	NORTHWEST ENTRANCE (NEAR GYM)	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0505WT018A 041009514-0040	NORTHEAST ENTRANCE	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0505WT018B 041009514-0041	SOUTHEAST ENTRANCE	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0505WT019A 041009514-0042	EXTERIOR GYM ENTRANCE	Brown/Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0505WT019B 041009514-0043	EXTERIOR GYM ENTRANCE	Brown/Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0505WT020A 041009514-0044	1ST FLOOR BOYS BATHROOM	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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 Wayne Froehlich (6)

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Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036



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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0505WT020B 041009514-0045	1ST FLOOR BOYS BATHROOM	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0505WT020C 041009514-0046	1ST FLOOR BOYS BATHROOM	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0505WT021 041009514-0047	1937 ROOF	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0505WT022 041009514-0048	1937 ROOF ON THE PARAPET WALL	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0505WT023A 041009514-0049	1937 ROOF	Tan/Black Fibrous Heterogeneous	10% Cellulose 3% Glass	87% Non-fibrous (other)	None Detected
0505WT023B 041009514-0050	1937 ROOF	Tan/Black Fibrous Heterogeneous	5% Cellulose 2% Glass	93% Non-fibrous (other)	None Detected
0505WT023C 041009514-0051	1937 ROOF	Tan/Black Fibrous Heterogeneous	5% Cellulose 2% Glass	93% Non-fibrous (other)	None Detected

Analyst(s)

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 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036



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Customer ID: ENVI54  
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 Received: 05/08/10 10:00 AM  
 EMSL Order: 041009514  
 EMSL Proj:  
 Analysis Date: 5/9/2010

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0505WT024A 041009514-0052	GYM ROOF	Black Fibrous Heterogeneous		90% Non-fibrous (other)	10% Chrysotile
0505WT024B 041009514-0053	GYM ROOF				Stop Positive (Not Analyzed)
0505WT025A 041009514-0054	GYM ROOF	Tan/Black Fibrous Heterogeneous	10% Cellulose 3% Glass 5% Synthetic	82% Non-fibrous (other)	None Detected
0505WT025B 041009514-0055	GYM ROOF	Tan/Black Fibrous Heterogeneous	5% Cellulose 2% Glass 5% Synthetic	88% Non-fibrous (other)	None Detected
0505WT026 041009514-0056	LOW ROOF ADJACENT TO GYM	Black/Yellow Fibrous Heterogeneous	10% Synthetic	90% Non-fibrous (other)	None Detected
0505WT027 041009514-0057	1953 ROOF	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0505WT028 041009514-0058	1937 ROOF ON THE PARAPET WALL	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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

Sample	Description	Appearance	Non-Asbestos		Asbestos	
			%	Fibrous	% Non-Fibrous	% Type
0505WT029A 041009514-0059	1937 ROOF	Brown/Black Fibrous Heterogeneous	80%	Cellulose 5% Synthetic	10% Non-fibrous (other)	5% Chrysotile
0505WT029B 041009514-0060	1937 ROOF					Stop Positive (Not Analyzed)
0505WT030A 041009514-0061	1991 LOW ROOF CENTER	Gray/Black/Yellow Fibrous Heterogeneous	15%	Synthetic	85% Non-fibrous (other)	None Detected
0505WT030B 041009514-0062	1991 HIGH ROOF CENTER	Black/Yellow Fibrous Heterogeneous	60%	Glass	40% Non-fibrous (other)	None Detected
0505WT031A 041009514-0063	1991 LOW ROOF BACK EDGE	Brown/Black Fibrous Heterogeneous	30%	Glass 20% Cellulose	50% Non-fibrous (other)	None Detected
0505WT031B 041009514-0064	1991 HIGH ROOF-ADJACENT TO 1953 ROOF	Brown/Black Fibrous Heterogeneous	15%	Synthetic	85% Non-fibrous (other)	None Detected
0505WT032A 041009514-0065	GYMNASIUM	Gray/Clear Non-Fibrous Heterogeneous			100% Non-fibrous (other)	None Detected

Analyst(s)

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 Wayne Froehlich (6)

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Customer ID: ENVI54  
 Customer PO:  
 Received: 05/08/10 10:00 AM  
 EMSL Order: 041009514  
 EMSL Proj:  
 Analysis Date: 5/9/2010

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0505WT032B 041009514-0066	GYMNASIUM	Clear Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0505WT032C 041009514-0067	GYMNASIUM	Clear Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036



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**SAMPLE LOG FOR ASBESTOS BULKS**

Sheet 1 of 6

Project Name: Former W-1 Elementary School

Project No. 20080836-17F

Building: School

Project Manager: Stephen Connolly

Sample ID	Sample Location	Material	Result (%)
0505WT001A	Room 221 (1937 section)	Ceiling Plaster (1937 section)	
001B	2nd Floor Hallway (1937 section)		
001C	1st Floor Hallway (1937 section)		
0505WT002A	Room 221 (1937 section)	Ceiling Plaster Rough cut	
002B	2nd Floor Hallway (1937 section)		
002C	1st Floor Hallway (1937 section)		
0505WT003A	Cafeteria	9" x 9" Black & Brown Checker Floor tile	
003B			
0505WT004A	Cafeteria	14" x 14" tile	
004B			
0505WT005A	Room Across from Cafeteria	9" x 9" Brown Floor tile	
005B			

Analysis Method: ☒ PLM ☐ Other

Turnaround Time 24hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: \_\_\_\_\_. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 413-647-0018.

Special Instruction: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 400 point count all samples of asbestos content <4%, positive stop on all point counts.

Samples collected by: Willie Thompson Date: 5/5/10 Time: \_\_\_\_\_

Samples [Rec'd]/[Sent by] [ ] Date: [ ] Time: [ ]

Samples Received by: DMB-AX-10A Date: 5-8-10 Time: \_\_\_\_\_

Shipped To: ☐ EMSL State \_\_\_\_\_ ☐ Other \_\_\_\_\_

Method of Shipment: ☐ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other \_\_\_\_\_

SAMPLES ACCEPTED  
FOR ANALYSIS BY  
EPA ANALYTICAL INC.



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### SAMPLE LOG FOR ASBESTOS BULKS

Project Name: Former W.H. Elementary School Sheet 2 of 6  
Building: School Project No. 20080836, A1E  
Project Manager: Stephen Connelly

Sample ID	Sample Location	Material	Result (%)
0505WT006A 006B	Room Across from Cafeteria	Mastic	
0505WT007A 007B	Mech. Room By North East Stairwell (Top level)	Carpet Glue	
007C	Room 220		
0505WT008A 008B	Mech. Room By North East Stairwell (Top level)	Window Glazing (Metal Windows)	
008C	Cafeteria		
0505WT009A 009B	Gymnasium	9"x9" Light Green Floor tile	
0505WT010A 010B	Kitchen		
	Kitchen	Mastic	

Analysis Method: ☒ PLM ☐ Other

Turnaround Time 24hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: \_\_\_\_\_. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 413-647-0018.

Special Instruction: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 300 point count all samples of asbestos content <4%, positive stop on all point counts.

Samples collected by: Willie Thompson Date: 5/5/10 Time: \_\_\_\_\_

Samples [Rec'd]/[Sent by] [ ] [ ] Date: [ ] [ ] Time: \_\_\_\_\_

Samples Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Shipped To: ☐ EMSL State \_\_\_\_\_ ☐ Other \_\_\_\_\_

Method of Shipment: ☐ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other



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# **SAMPLE LOG FOR ASBESTOS BULKS**

Project Name: Former Witt Elementary School Sheet 3 of 6  
Building: School Project No. 20080836 ALE  
Project Manager: Stephen Connolly

Sample ID	Sample Location	Material	Result (%)
0505WT011A 011B	Room 218 Nurses Office	2x4 Ceiling Tile	
0505WT012A 012B	2nd Floor Hall (1953 section) 1st Floor Hall (1953 section)	Ceiling Plaster Skim Coat	
0505WT013A 013B	2nd Floor Hall (1953 section) 1st Floor Hall (1953 section)	Ceiling Plaster Rough Coat	
0505WT014A 014B	2nd Floor Hall (1953 section) 1st Floor Hall (1953 section)	Wall Plaster Skim Coat	
0505WT015A 015B	2nd Floor Hall (1953 section) 1st Floor Hall (1953 section)	Wall Plaster Rough Coat	
0505WT016A 016B	West Entrance (Lower level)	Type I Door Caulking	

Analysis Method: ☒ PLM ☐ Other

Turnaround Time 24 hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: \_\_\_\_\_. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 413-647-0018.

Special Instruction: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 100 point count all samples of asbestos content < 4%, positive stop on all point counts.

Samples collected by: Willie Thompson Date: 5/5/10 Time: \_\_\_\_\_

Samples [Rec'd][Sent by] [ ] [ ] Date: [ ] [ ] Time: \_\_\_\_\_

Samples Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Shipped To: ☐ EMSL State \_\_\_\_\_ ☐ Other \_\_\_\_\_

Method of Shipment: ☐ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other



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# **SAMPLE LOG FOR ASBESTOS BULKS**

Sheet 4 of 6

Project Name: Former Witt Elementary School

Project No. 20080836.47F

Building: School

Project Manager: Stephen Connolly

Sample ID	Sample Location	Material	Result (%)
0505WT017A	East Entrance (1st Floor)	Type II Door Caulking	
017B	↓	↓	
017C	Northwest Entrance (Near Gym)	↓	
0505WT018A	North East Entrance	Type III Door Caulking	
018B	South East Entrance	↓	
0505WT019A	Exterior Gym Entrance	Type IV Door Caulking	
019B	↓	↓	
0505WT020A	1st Floor Boy's Bathroom	Ceramic Wall Tile Adhesive	
020B	↓	↓	
020C	↓	↓	
0505WT021	1937 Roof	Penetration Flashing	
0505WT022	1937 Roof on The Parapet Wall	Glove behind membrane	

Analysis Method: ☒ PLM ☐ Other

Turnaround Time 24 hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: \_\_\_\_\_. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 413-647-0018.

Special Instruction: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 100 point count all samples of asbestos content < 4%, positive stop on all point counts.

Samples collected by: Willie Thompson Date: 5/5/10 Time: \_\_\_\_\_

Samples [Rec'd] [Sent by] [ ] [ ] Date: [ ] [ ] Time: \_\_\_\_\_

Samples Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Shipped To: ☐ EMSL State \_\_\_\_\_ ☐ Other \_\_\_\_\_

Method of Shipment: ☐ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other \_\_\_\_\_

SAMPLES ACCEPTED  
FOR ANALYSIS BY  
ANALYTICAL IN



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## SAMPLE LOG FOR ASBESTOS BULKS

Project Name: Former West Elementary School Sheet 5 of 6  
Building: School Project No. 20080536, 411  
Project Manager: Stephen Connolly

Sample ID	Sample Location	Material	Result (%)
0505WT023A	1937 Roof	Built up Roof	
023B	↓	↓	
023C	↓	↓	
0505WT024A	Gym Roof	Mastic on terricotta Cops	
024B	↓	↓	
0505WT025A	Gym Roof	Built up Roof	
025B	↓	↓	
0505WT026	Low Roof Adjacent to Gym	Membrane with Adhesive	
0505WT027	1953 Roof	Penetration Flashing	
0505WT028	1953 Roof on the ramp to Wall	Glue Behind Membrane	
0505WT029A	1953 Roof	Built-up Roof	
029B	↓	↓	

Analysis Method: ☒ PLM ☐ Other

Turnaround Time 24hrs

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: \_\_\_\_\_. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 413-647-0018.

Special Instruction: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 400 point count all samples of asbestos content < 4% positive stop on all point counts.

Samples collected by: Willie Thompson Date: 5/5/10 Time: \_\_\_\_\_

Samples [Rec'd]/[Sent by] [\_\_\_\_\_] [\_\_\_\_\_] Date: [\_\_\_\_\_] [\_\_\_\_\_] Time: \_\_\_\_\_

Samples Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Shipped To: ☐ EMSL Store ☐ Other \_\_\_\_\_

Method of Shipment: ☐ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other \_\_\_\_\_



**FUSS & O'NEILL**  
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041009514

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## SAMPLE LOG FOR ASBESTOS BULKS

Project Name: Former W.H. Elementary School

Sheet 6 of 6

Building: School

Project No. 20090836 A1E

Project Manager: Stephen Connolly

Sample ID	Sample Location	Material	Result (%)
0505WT030A	1991 Low Roof Center	Built up Roof	
030B	1991 High Roof Center		
0505WT031A	1991 Low Roof Back Edge	Built up Roof	
031B	1991 High Roof Adjacent to 1953 Roof		
0505WT032A	Gymnasium	Window Caulking (Metal Windows)	
032B	Gymnasium		
032C	Gymnasium		

Analysis Method: ☒ PLM ☐ Other

Turnaround Time 20hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: \_\_\_\_\_. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 413-647-0018.

Special Instruction: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 100 point count all samples of asbestos content < 4%, positive stop on all point counts.

Samples collected by: Willie Thompson Date: 5/5/10 Time: \_\_\_\_\_

Samples (Rec'd) [Sent by] \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Shipped To: ☐ EMSL State \_\_\_\_\_ ☐ Other \_\_\_\_\_

Method of Shipment: ☐ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other \_\_\_\_\_





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Attn: **Willie Thompson**  
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**146 Hartford Road**  
**Manchester, CT 06040**

Fax: (413) 647-0018 Phone: (860) 646-2469  
Project: 20080836.A1E

Customer ID: ENVI54  
Customer PO:  
Received: 05/08/10 10:00 AM  
EMSL Order: 041009515  
EMSL Proj:  
Analysis Date: 5/9/2010

### Test Report: Asbestos Analysis of Bulk Material via EPA 600/R-93/116. Quantitation using 400 Point Count Procedure.

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0506WT05A 041009515-0010	MECH ROOM NEXT TO NORTHEAST STAIRWELL (TOP	Brown/Yellow Non-Fibrous Heterogeneous		98.50% Non-fibrous (other)	1.50% Chrysotile
0506WT07A 041009515-0014	ENTRANCE TO B-02 STORAGE	Yellow Non-Fibrous Heterogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
0506WT07B 041009515-0015	ENTRANCE TO B-02 STORAGE	Yellow Non-Fibrous Heterogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile

Analyst(s)

Erica Valent (3)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036



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

Fax: (413) 647-0018 Phone: (860) 646-2469  
 Project: **20080836.A1E**

Customer ID: ENV154  
 Customer PO:  
 Received: 05/08/10 10:00 AM  
 EMSL Order: 041009515  
 EMSL Proj:  
 Analysis Date: 5/9/2010

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0506WT01A 041009515-0001	MAIN OFFICE	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0506WT01B 041009515-0002	MAIN OFFICE	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0506WT02A 041009515-0003	MAIN OFFICE	Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0506WT02B 041009515-0004	MAIN OFFICE	Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0506WT03A 041009515-0005	CAFETERIA	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0506WT03B 041009515-0006	CAFETERIA	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0506WT03C 041009515-0007	NURSES OFFICE	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Chris Little (6)  
 Erica Valent (15)

*Stephen Siegel*  
 Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. The test results meet all NELAP requirements unless otherwise specified.

Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036



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**146 Hartford Road**  
**Manchester, CT 06040**

Customer ID: ENVI54  
 Customer PO:  
 Received: 05/08/10 10:00 AM  
 EMSL Order: 041009515

Fax: (413) 647-0018 Phone: (860) 646-2469  
 Project: 20080836.A1E

EMSL Proj:  
 Analysis Date: 5/9/2010

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0506WT04A 041009515-0008	BOILER ROOM	Brown/Black Fibrous Heterogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
0506WT04B 041009515-0009	BOILER ROOM	Brown/Black Fibrous Heterogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
0506WT05B 041009515-0011	MECH ROOM NEXT TO NORTHEAST STAIRWELL (TOP LEVEL)				Stop Positive (Not Analyzed)
0506WT06A 041009515-0012	ROOM B-01	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0506WT06B 041009515-0013	ROOM B-01	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0506WT08A 041009515-0016	1ST FLOOR BOYS BATHROOM	Gray/Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0506WT08B 041009515-0017	1ST FLOOR BOYS BATHROOM	Gray/Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Chris Little (6)  
 Erica Valent (15)

*Stephen Siegel*  
 Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036



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

Customer ID: ENV154  
 Customer PO:  
 Received: 05/08/10 10:00 AM  
 EMSL Order: 041009515

Fax: (413) 647-0018 Phone: (860) 646-2469  
 Project: 20080836.A1E


EMSL Proj:  
 Analysis Date: 5/9/2010

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0506WT08C 041009515-0018	1ST FLOOR BOYS BATHROOM	Black/Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0506WT09A 041009515-0019	CAFETERIA	Brown/White Fibrous Heterogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
0506WT09B 041009515-0020	CAFETERIA	Brown/White Fibrous Heterogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
0506WT10 041009515-0021	BOILER ROOM	Gray Fibrous Heterogeneous	20% Min. Wool	80% Non-fibrous (other)	None Detected
0506WT11 041009515-0022	BOILER ROOM	Gray Fibrous Heterogeneous	20% Min. Wool	80% Non-fibrous (other)	None Detected
0506WT12A 041009515-0023	SMALL BOILER ROOM STORAGE	Brown/Gray Fibrous Heterogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
0506WT12B 041009515-0024	SMALL BOILER ROOM STORAGE	Brown/Gray Fibrous Heterogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected

Analyst(s)

Chris Little (6)  
 Erica Valent (15)

  
 Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036



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

Customer ID: ENVI54  
Customer PO:  
Received: 05/08/10 10:00 AM  
EMSL Order: 041009515

Fax: (413) 647-0018 Phone: (860) 646-2469  
Project: 20080836.A1E

EMSL Proj:  
Analysis Date: 5/9/2010

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0506WT13 041009515-0025	BOILER ROOM	Gray Fibrous Heterogeneous	20% Min. Wool	80% Non-fibrous (other)	None Detected

Analyst(s)

Chris Little (6)  
Erica Valent (15)

  
Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. The test results meet all NELAC requirements unless otherwise specified.

Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036


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# **SAMPLE LOG FOR ASBESTOS BULKS**

 Project Name: Former North Elementary School  
 Building: School
Sheet 1 of 3Project No. PC86836.47EProject Manager: Stephen Connolly

Sample ID	Sample Location	Material	Result (%)
0566WTA 013	Main office	Blue Carbase	
0566WTA 023	Main office	Carbase Glue	
0566WTA 033	Cafeteria	Glueclubs	Miscellaneous
0566WTA 03C	Nurse's OFFICE		
0566WTA 042	Boiler Room	Vibration Damper	
0566WTA 05C	Mech. Room Next to Northeast Stairwell (Top level)	Duct Adhesive	

Analysis Method: ☒ PLM ☐ OtherTurnaround Time 24hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: \_\_\_\_\_ Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 413-647-0018.

 Special Instruction: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not later  
samples unless indicated. EPA 400 point count all samples of asbestos content < 1%, positive stop on all point counts.

 Samples collected by: Willie Thompson Date: 5/6/10 Time: \_\_\_\_\_

Samples [Rec'd] [Sent by] [ ] Date: [ ] Time: [ ]

 Samples Received by: DMB-A1-10A Date: 5-8-10 Time: \_\_\_\_\_

 Shipped To: ☐ EMSL State \_\_\_\_\_ ☐ Other \_\_\_\_\_

 Method of Shipment: ☐ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other \_\_\_\_\_

 ANALYSIS BY  
 F&O ANALYTICAL  
 05/10/2010



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### SAMPLE LOG FOR ASBESTOS BULKS

Project Name: Former North Elementary School  
Building: School

Project No. 20080836.11F

Project Manager: Stephen Connolly

Sheet 2 of 3

Sample ID	Sample Location	Material	Result (%)
0506wT06A 06B	Room B-01	Adhesive under Brown Rubber Flooring	
0506wT07A 07B	Entrance to B-02 Storage	Adhesive under Black Rubber Flooring	
0506wT08A 08B	1st Floor Boy's Bathroom	Ceramic Floor tile Adhesive	
0506wT09A 09B	Cafeteria	Acoustical tile	
0506wT10 0506wT11	Boiler Room	Breeching Insulation Tank Insulation	

Analysis Method: ☒ PLM ☐ Other

Turnaround Time 24hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: \_\_\_\_\_. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 413-647-0018.

Special Instruction: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 400 point count all samples of asbestos content <4%, positive stop on all point counts

Samples collected by: Willie Thompson Date: 5/6/10 Time: \_\_\_\_\_

Samples [Rec'd][Sent by] [ ] [ ] Date: [ ] [ ] Time: \_\_\_\_\_

Samples Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Shipped To: ☐ EMSL State \_\_\_\_\_ ☐ Other \_\_\_\_\_

Method of Shipment: ☐ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other





(860) 646-2469 Fax (860) 649-6883

# SAMPLE LOG FOR ASBESTOS BULKS

Project Name:

Sheet

Building:

Project No. \_\_\_\_\_

Project Manager:

Project Manager: Stephen Connolly			
Sample ID	Sample Location	Material	Result (%)
0506WTD/A 12B	Small Boiler Room Storage	Acoustic Tile	
0506WT/B	↓ Boiler Room	↓ Boiler Insulation	

Analysis Method: ☒ XRF M ☐ GC

Analysis Method: ☒ PLM ☐ Other

Turnaround Time

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date:           . Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

**Fax Results to the EnviroScience Laboratory at: 413-647-0018.**

Special Instruction: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 400 point count all samples of asbestos content  $< 4\%$ , positive stop on all point counts.

Samples collected by:

Date: \_\_\_\_\_

**Time:**

Samples [Rec'd][Sent by] [

Date \_\_\_\_\_

**Time:**

**Samples Received by:**

Date:

Time:

Shipped To: ☐ EMSL State

☐ Other

Method of Shipment: ☐ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other

SAMPLES ACCEPTED  
- COMING VOLUME  
DATE: 1/1/19

## **Appendix B**

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### **Lead Paint Testing Procedures and Equipment**

## **STANDARD OPERATING PROCEDURES LEAD-BASED PAINT LIMITED SCREENINGS**

### **TESTING PROCEDURES AND EQUIPMENT**

The U. S. Department of Housing and Urban Development (HUD) "Guidelines for the Evaluation and Control of Lead Hazards in Housing, September 1997," were consulted for this lead paint screening. HUD has been the agency at the federal level with responsibility for the establishment of national lead-based paint standards for testing and abatement. The HUD document will be referenced as the Guidelines in this document. The HUD Guidelines are specific to child occupied dwelling units or target housing and are not wholly applicable to limited screenings. Additionally, most New England States have regulations and standards with regard to lead paint testing and abatement in child occupied facilities. EnviroScience shall consult these regulations and standards prior to beginning testing. Some states have reporting requirements if certain threshold values for lead paint are found and certain conditions exist. EnviroScience reports any specific testing results required by State laws as licensed inspectors and consultants in these circumstances.

This lead evaluation was a Lead Based Paint Limited Screening. Both the proposed scope of work and the final report will note this type of evaluation was done. A Lead Paint Limited Screening is performed in order to determine through representative testing the lead paint history of a property. However, conclusions about untested areas cannot be reliably determined based on the limited testing that was done. Comprehensive inspections involve testing of representative components in each and every room of a building. A Lead Based Paint Limited Screening is conducted in representative locations and not necessarily every room. The intent is to collect a sufficient number of readings using field instrumentation to characterize a given component or surface. Representative components are classified as testing combinations. The age and use of the functional space, component type, and substrate type are used to characterize a testing combination for purposes of a Lead Based Paint Limited Screening. Considering age of the structure inspectors determine original dates of construction and any major renovations to the original building. Interior spaces where major renovation has occurred are also treated as separate spaces. A functional space is a room or group of rooms used for similar purposes where painting is presumed to be uniform.

Inspectors perform Lead Based Paint Limited Screening on representative components ensuring randomization in the selection of components. EnviroScience utilizes a protocol of a minimum of three (3) rooms with similar building components and surfaces are comprehensively tested similar to inspections for HUD compliance or state regulated inspections. (For example, living room, kitchen and a bedroom may be comprehensively tested in a 6-room apartment). In this protocol specific unique components are tested in any other locations in the dwelling. Inspectors shall record readings utilizing portable field instrumentation.

Conclusions in a Lead Based Paint Limited Screening are made based on consistent findings in the limited number of readings collected for a given testing combination. Inspectors conduct more readings if trends or similar findings are not found during such a limited screening process. In reporting findings and use in cost estimating, EnviroScience shall use limited screening information to extrapolate (or presume) that the untested areas have similar paint history as to those areas where limited screenings were conducted. (For example if in the three locations tested, all window sashes contained threshold values of lead paint above HUD or other State regulatory levels, then EnviroScience would detail in the report that all such components in the dwelling should be presumed to contain lead paint or recommend them to be tested further).

Lead-based paint surfaces and components were identified by utilizing on-site x-ray fluorescence (XRF) instruments. Fuss & O'Neill EnviroScience, LLC owns and maintains two different types of XRFs for testing for lead-based paint. These instruments are four (4) Radiation Monitoring Device LPA-1s (RMD) and a Scitec MAP 4 analyzer. Each of these instruments is operated in accordance with state and federal and manufacturer standards on the use of the instruments. State and federal protocols provide, with the exception of wall surfaces, one reading with the instrument on a representative component in each room, i.e., baseboard, chair rail, etc., as sufficient to establish the lead paint classification of all the representatives of that component type in a room. In the case of walls, because of the large spacial areas involved and the variability in lead content in paint over such large areas, the federal and state governments want a reading on each wall surface in a room. Therefore, representative testing is not permitted for walls.

The federal government has developed Performance Characteristic Sheets (PCS) for each of the types of instruments cited above. Each instrument must be calibrated in accordance with these PCSs on a 1.0-milligram lead standard. Each of EnviroScience's instruments has one of these standards assigned to it. Some of the standards were purchased directly from the government and the others from the manufacturers of the instruments.

For the Scitec MAP 4 instrument, on one or more substrates, substrate interference can affect the validity of the result. For this instrument, if the reading is below 4.0 mg/cm<sup>2</sup>, a Substrate Equivalent Lead (SEL) was determined on certain substrates in the Screen and Test Modes of the instrument. For the RMD in the standard reading mode on metal, an SEL also has to be determined. To determine the SEL, the paint is removed from the surface of the component to obtain a bare substrate reading. After removing the paint, the surface is wiped with a 5% trisodium phosphate solution (a heavy duty cleaner). All paint residue is collected and properly disposed of. Once the paint and surrounding area are cleaned, the XRF is utilized to determine the SEL for each surface. The SEL values are subtracted from the XRF values to determine the Corrected Lead Concentration (CLC). The CLC is the lead content of the paint on the component tested.

Each of the types of instruments has federal government-determined positive and negative ranges for the definition of lead-based paint. In addition, the Scitec MAP 4 also has inconclusive ranges in many of its reading modes. XRF results are classified using either the threshold or the inconclusive range. For the threshold, results are classified as positive if they are greater than or equal to the threshold and negative if they are less than the threshold. There is no inconclusive classification when using the threshold. For the inconclusive range, results are classified as positive if they are greater than the upper limit of the inconclusive range and negative if they are less than the lower limit of the inconclusive range. The ranges for each of the types of instruments and their various operating modes are as follows:

Radiation Monitoring Device LPA Analyzer 1

30-Second Standard Mode Reading Description	Substrate	Threshold (mg/cm <sup>2</sup> )
Results corrected for substrate bias on metal substrate only.	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	0.9
	Plaster	1.0
	Wood	1.0

<b>Quick Mode Reading Description</b>	<b>Substrate</b>	<b>Threshold (mg/cm<sup>2</sup>)</b>	<b>Inconclusive Range (mg/cm<sup>2</sup>)</b>
Readings not corrected for substrate bias on any substrate.	Brick	1.0	None
	Concrete	1.0	None
	Drywall	1.0	None
	Metal	1.0	None
	Plaster	1.0	None
	Wood	1.0	None

#### Scitec MAP 4 Spectrum Analyzer

<b>Unlimited Mode Reading Description</b>	<b>Substrate</b>	<b>Inconclusive Range (mg/cm<sup>2</sup>)</b>
Results not corrected for substrate bias for unlimited mode readings.	Brick	0.91 to 1.19
	Concrete	0.91 to 1.19
	Drywall	0.91 to 1.19
	Metal	0.91 to 1.19
	Plaster	0.91 to 1.19
	Wood	0.91 to 1.19

<b>Screen Mode Reading Description</b>	<b>Substrate</b>	<b>Inconclusive Range (mg/cm<sup>2</sup>)</b>
Results corrected for substrate bias on drywall, metal, and wood substrates.	Brick	0.91 to 1.09
	Concrete	0.91 to 1.09
	Drywall	0.91 to 1.39
	Metal	0.91 to 1.19
	Plaster	0.91 to 1.09
	Wood	0.91 to 1.29

<b>Test Mode Reading Description</b>	<b>Substrate</b>	<b>Threshold (mg/cm<sup>2</sup>)</b>	<b>Inconclusive Range (mg/cm<sup>2</sup>)</b>
Readings corrected for substrate bias for test mode readings on drywall, metal, and wood substrates only.	Brick	0.9	None
	Concrete	0.9	None
	Drywall	None	0.91 to 1.39
	Metal	None	0.91 to 1.09
	Plaster	0.9	None
	Wood	None	0.91 to 1.29

If a reading falls in the inconclusive range, either the lead inspector should be authorized by the client to take a paint chip sample to determine whether the final result is either positive or negative after laboratory analysis, or the result can be categorized as suspect positive and treated accordingly. If it is not confirmed with laboratory analysis, it cannot be assumed to be negative for toxic levels of lead. If it is assumed to be positive, it can either be abated as a positive if the condition of the surface and/or location of the component require this treatment under Connecticut and/or HUD regulations, or it can be managed in place as a positive component in accordance with the requirements of Connecticut and HUD regulations.

Prior to the start of any testing, a sketch of the building is drawn, and side designations are given to help identify exactly where readings were taken. Drawings depicting the room-numbering scheme are located on the cover page(s) for the building(s) inspected. Each side of the building was labeled A, B, C, or D. The wall "A" side of the unit is generally the side of primary entrance into a



dwelling, and this room is always Room 1. Areas in the units include rooms, hallways and closets. Areas are numbered in a clockwise fashion as building construction allows. This allows the inspector to indicate which substrate surface was tested. The condition of the surface is described by a check mark in the appropriate column, under the heading "condition of surface" on the testing form.

When more than one surface type was present on a side, the component tested was indicated with a number. If two windows were present on a building side, they were numbered left to right. Closet shelves and shelf supports were numbered top to bottom.

It is understood that the room layouts presented in the report are in conformance with the conditions that exist at the time the testing is performed. EnviroScience avoids labeling a room solely by its current functional use (i.e., living room, bedroom, etc.) since this use can change over time. Similarly, room layouts can change dramatically as dwellings are renovated and additions are built, incorporating existing rooms, or existing interior walls are moved or eliminated altogether.



## Appendix C

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### Lead Testing Field Data Sheets





## LEAD INSPECTION COVER SHEET

### Inspector's Information

Inspector's Name: Willie L Thompson III  
XRF Model: RMD  
Date of Inspection: 5/4/10

License Number: 2146  
Serial Number: 1138  
Project Number: 20080836.A1F

### Property Information

Building Address: 20 Hyde Park Road  
(Street)

(City) \_\_\_\_\_ (State) \_\_\_\_\_ Age of Property: \_\_\_\_\_

Describe Structure: School/Building

Are there lead hazards present? ☐ Yes ☐ No  
Were lead dust wipes taken? ☐ Yes ☐ No  
Were soil samples collected? ☐ Yes ☐ No  
Were drinking water samples collected? ☐ Yes ☐ No

Single Family Dwelling ☐

Is there an EBL child present?  
☐ Yes ☐ No ☐ Unknown

Is there a child under six years of age in the dwelling?  
☐ Yes ☐ No ☐ Unknown

Multiple Family Dwelling ☐

Number of units in building: \_\_\_\_\_

Number of units tested: \_\_\_\_\_

Is there an EBL child present in the building?

☐ Yes ☐ No ☐ Unknown

If EBL child, which unit(s)? \_\_\_\_\_

Is there a child under six years of age in the building?

☐ Yes ☐ No ☐ Unknown

If child under six, which unit(s)? \_\_\_\_\_

### XRF Calibration Check

Calibration Paint Film Used: ☒ NIST 1.02 mg/cm<sup>2</sup> ☐ Manufacturer's Standard 1.0 mg/cm<sup>2</sup>

Calibration Check Limits Used: ☒ RMD (0.7 to 1.3 mg/cm<sup>2</sup> inclusive)  
☐ Scitec MAP4 (0.6 to 1.2 mg/cm<sup>2</sup> inclusive)

First Check

Second Check

Third Check

Fourth Check

Hour	First Reading	Second Reading	Third Reading	Average
1058	1.1	1.0	1.1	1.1
1111	1.1	1.1	0.9	1.03



# FUSS & O'NEILL EnviroScience, LLC

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(860) 646-2469 Fax (860) 649-6883

## LEAD INSPECTION - COMMON AREAS

Address: 20 Hyde Park Rd - Witt School

Floor: MAIN (1st)

Room: office/hallway

Apt. #: \_\_\_\_\_

Page 1 of 10

Project Name: Witt School

Project Number: 20080836-AIE

Project Manager: Stephen Connolly

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
A	Wall	0.0		C					
B	Wall	0.0		C					
C	Wall	0.1		C					
D	Wall	0.1		C					
	Floor								
	Tread								
	Riser								
	Stringer								
	Baseboard								
	Lower Railing								
	Baluster								
	Railing Cap								
	Newel Post								
	Hand Rail								
	Door								
	Casing								
	Jamb								
	Door	0.1		M					Principal office
	Casing	0.1		M					
	Jamb								
	Window Trim	0.1		M					interior window
	Sill	0.1		M					
	Sash								
	Well								
	Radiator	0.1		M					newer radiator
	locks	0.4		M					

\* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B

N/A: Not Accessible; N/C: Not Coated; COV: Covered; VR - Vinyl Replacement

Notes: \_\_\_\_\_



### LEAD INSPECTION - COMMON AREAS

Address: 20 Hyde Park Rd - Witt School

Apt. #: \_\_\_\_\_

Floor: Main (1st) Room: Rm 113

Page 2 of 10

Project Name: Witt School

Project Number: \_\_\_\_\_

Project Manager: Stephen Connelly (If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
A	Wall	0.1							
B	Wall	0.7		P					<del>Paint</del> / blue
C	Wall	0.1		P	✓				blue
D	Wall								
	Floor								
	Tread								
	Riser								
	Stringer								
	Baseboard								
	Lower Railing								
	Baluster								
	Railing Cap								
	Newel Post								
	Hand Rail								
	Door								
	Casing								
	Jamb								
	Door	0.0		W					
	Casing	0.3							
	Jamb	-0.1							
	Window Trim	0.2		W					
	Sill	0.1		W					
	Sash	0.1		W					
	Well								
	Radiator	0.3		M					old cast iron
	Black board trim	0.0		W					

\* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B

N/A: Not Accessible; N/C: Not Coated; COV: Covered; VR - Vinyl Replacement

Notes: \_\_\_\_\_



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## LEAD INSPECTION - COMMON AREAS

Address: 20 Hyde Park Rd - W/H School

Apt. #: \_\_\_\_\_

Floor: Main 1st

Room: Main Hallway

Page 3 of 10

Project Name: W/H School

Project Number: \_\_\_\_\_

Project Manager: Stephen Connolly (If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
A	Wall	1.3		P	✓				Lower wall Lower wall
B	Wall	0.5		P	✓				
C	Wall	0.5		P	✓				
D	Wall	0.9		P	✓				
	Floor	-							
	Tread	-							
	Riser	1.4		M	✓				
	Stringer	1.5		M	✓				
	Baseboard	1.6		W	✓				
	Lower Railing	0.1		M	✓				
	Baluster	1.8		M	✓				
	Railing Cap	1.4		M	✓				
	Newel Post	1.5		M	✓				
	Hand Rail	2.5		M	✓				
D	Door	0.2		M					smoking items
	Casing	0.0		M					
	Jamb	0.2		W					
C	Door	0.1							
	Casing	0.1		M					
	Jamb	0.0							
	Window Trim								
	Sill								
	Sash								
	Well								
	Radiator								
	Locker	0.1		M					

\* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B

N/A: Not Accessible; N/C: Not Coated; COV: Covered; VR - Vinyl Replacement

Notes: \_\_\_\_\_





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(860) 646-2469 Fax (860) 649-6883

## XRF FIELD DATA SHEET - INTERIOR ROOM

**(If Positive - Check All That Apply)**

Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B  
N/A: Not Accessible; N/C: Not Coated; COV: Covered; VR - Vinyl Replacement  
Notes: walls in basement similar paint history



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## XRF FIELD DATA SHEET - INTERIOR ROOM

Address: Witt School 20 Hyde Park Road

Floor: 2nd Floor Room: 212

Project Name: Witt School Renovation

Project Number: \_\_\_\_\_

Project Manager: Stephen Connolly (If Positive - Check All That Apply)

Apt. #: \_\_\_\_\_

Page 5 of 10

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	0.0		P					Lower
B	Wall	0.0		P					Upper
C	Wall	0.0		P					
D	Wall	0.2		P	✓				Lower
	Chair rail								
	Ceiling								
	Crown Molding								
C	Door								
	Casing	0.3		M					
	Jamb	0.3		M					
	Door								
	Casing								
	Jamb								
A	Window Trim	-0.1		W					
	Sill	0.4		W					
	Sash	0.0		W					
	Well								
Cen	Cabinet Base	0.0		W					
	Door Exterior	-0.0		W					
	Door Interior	0.2							
	Walls	-0.0		W					
	Shelves	0.1							
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
A	Radiator	1.0		M					
	Wall Molding	0.0							

Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B  
N/A: Not Accessible; N/C: Not Coated; COV: Covered; VR - Vinyl Replacement

Notes: \_\_\_\_\_





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## XRF FIELD DATA SHEET - INTERIOR ROOM

Address: 20 Hyde Park Rd - Witt School

Floor: 2nd Floor

Room: Hall way

Apt. #:

Project Name: Stephen Connolly Witt School

Page 6 of 10

Project Manager: Stephen Connolly

Project Number:

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	0.2		P	✓				
B	Wall	2.7		P	✓				
C	Wall	0.0		P					Lower blue
D	Wall	4.4		P	✓				Lower blue
	Chair rail								
	Ceiling								
	Crown Molding								
B	Door	7.3		M	✓				
	Casing	>9.9		M	✓				
	Jamb	>9.9		M	✓				
	Door								
	Casing								
	Jamb								
	Window Trim								
	Sill								
	Sash								
	Well								
C	Cabinet Base								
	Door Exterior	0.0		M					
	Door Interior	0.7		M					Locker
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								

Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B  
N/A: Not Accessible; N/C: Not Coated; COV: Covered; VR - Vinyl Replacement

Notes:



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## XRF FIELD DATA SHEET - EXTERIOR OF SIDE C

Address: 20 Hyde Park Rd - Witt School

Project Name: Witt School

Project Manager: Stephen Connolly

Page 7 of 10

Project Number: \_\_\_\_\_

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board								
	Corner Boards								
	Siding								
	Upper Trim								
	Door	0.2		M					
	Casing	0.1		M					
	Jamb								
	Threshold								
	Kick Board								
	Storm Door								
	Window Sill			<del>M</del>	<del>✓</del>				
	Trim	0.1		M	✓				concrete
	Sash	0.15		M	✓				
	Blind Stops								
	Storm Window								
	Basement Sash	79.9		M	✓				
	Frame	6.4		M	✓				
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters	0.2		M	✓				
	Railing Cap	0.8		M	✓				
	<del>ceiling</del> <u>ceiling</u>	1.1		M	✓				
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
C	Hand Rails	0.0		M	✓				
	Treads								
	Risers								
	Stringers								





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## XRF FIELD DATA SHEET - EXTERIOR OF SIDE B

Address: 20 Hyde Park Rd - Wilt School

Project Name: Wilt School

Project Manager: Stephen Connelly

Page 8 of 10

Project Number: \_\_\_\_\_

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board								
	Corner Boards								
	Siding								
	Upper Trim								
<u>B</u>	Door	<u>0.3</u>		<u>m</u>					
	Casing	<u>0.0</u>		<u>m</u>					
	Jamb								
	Threshold								
	Kick Board								
	Storm Door								
	Window Sill								
<u>B</u>	Trim	<u>0.5</u>		<u>w</u>	<u>✓</u>				
	Sash	<u>2.5</u>		<u>w</u>	<u>✓</u>				
	Blind Stops								
	Storm Window								
<u>B</u>	Basement Sash	<u>1.9</u>		<u>w</u>	<u>✓</u>				
	Frame	<u>0.4</u>		<u>w</u>	<u>✓</u>				
	Bulkhead								
	Downspouts								
	<del>Porch Floor</del> <u>metal window</u>								
	<del>Ceiling Joist</del>								
	Lower Trim	<u>2.1</u>		<u>m</u>	<u>✓</u>				
	<del>Window Railing</del>	<u>5.4</u>		<u>m</u>	<u>✓</u>				<u>Metal window</u>
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								



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## XRF FIELD DATA SHEET - EXTERIOR OF SIDE A

Address: 20 Hyde Park Road

Project Name: WTH School

Project Manager: Stephen Connolly

Page 9 of 10

Project Number: \_\_\_\_\_

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board								
	Corner Boards								
	Siding								
	Upper Trim								
	Door								
	Casing								
	Jamb								
	Threshold								
	Kick Board								
	Storm Door								
<u>A</u>	Window Sill	<u>0.8</u>		<u>M</u>	<u>✓</u>				
<u>A</u>	Trim	<u>0.3</u>		<u>W</u>	<u>✓</u>				
<u>A</u>	Sash	<u>0.4</u>		<u>W</u>	<u>✓</u>				
<u>A</u>	Blind Stops	<u>0.2</u>		<u>W</u>					
	Storm Window								
<u>A</u>	Basement Sash	<u>0.0</u>		<u>M</u>					
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
<u>A</u>	Hand Rails	<u>0.3</u>		<u>M</u>	<u>✓</u>				
	Treads								
	Risers								
	Stringers								



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## XRF FIELD DATA SHEET - EXTERIOR OF SIDE 10

Address: 20 Hyde Park Rd - Witt School

Project Name: Witt School

Project Manager: Stephen Connelly

Page 10 of 10

Project Number: \_\_\_\_\_

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board								
	Corner Boards								
	Siding								
	Upper Trim								
	Door	<u>-0.1</u>		<u>M</u>					
	Casing	<u>0.1</u>		<u>M</u>					
	Jamb								
	Threshold								
	Kick Board								
	Storm Door								
	Window Sill								
	Trim	<u>29.9</u>		<u>W</u>	<u>✓</u>				
	Sash	<u>29.9</u>		<u>W</u>	<u>✓</u>				
	Blind Stops								
	<u>Sill</u> Window	<u>29.9</u>		<u>W</u>	<u>✓</u>				
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								

## **Appendix D**

---

### **PCB in Caulk and Glazing Sample Results and Chain of Custody**



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Draft Progress Report

May 06, 2010

FOR: Attn: Ms. Karen Redfield  
Fuss & O'Neill EnviroScience, LLC  
145 Hartford Road  
Manchester, CT 06040

### Sample Information

Matrix: SOLID  
Location Code: F&OENVIR  
Rush Request: RUSH##  
P.O.#: 20091286.A1E

### Custody Information

Collected by:  
Received by: LB  
Analyzed by: see "By" below

Date	Time
05/04/10	11:00
05/04/10	17:02

### Laboratory Data

SDG ID: GAZ01069  
Phoenix ID: AZ01069

Project ID: WITT SCHOOL  
Client ID: S410SWC-01 GLAZING COMPOUND

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	05/06/10		M / JL	E160.3
Caulk Extraction for PCB	Completed			05/04/10		BB/K	SW3540C
<u>PCB (Soxhlet)</u>							
PCB-1016	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1221	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1232	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1242	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1248	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1254	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1260	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1262	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1268	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
<u>QA/QC Surrogates</u>							
% DCBP	105		%	05/05/10		MH	3540C/8082
% TCMX	52		%	05/05/10		MH	3540C/8082

Project ID: WITT SCHOOL

Phoenix I.D.: AZ01069

Client ID: S410SWC-01 GLAZING COMPOUND

Parameter	Result	RL	Units	Date	Time	By	Reference
-----------	--------	----	-------	------	------	----	-----------

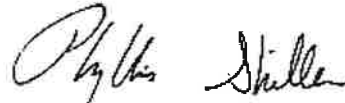
**Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

PLEASE NOTE: THIS PROGRESS REPORT IS CONSIDERED PRELIMINARY DATA. THE RESULTS ENTERED HAVE NOT BEEN EXAMINED BY OUR QA/QC DEPARTMENT.



Phyllis Shiller, Laboratory Director

May 06, 2010





**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Draft Progress Report

May 06, 2010

FOR: Attn: Ms. Karen Redfield  
Fuss & O'Neill EnviroScience, LLC  
145 Hartford Road  
Manchester, CT 06040

### Sample Information

Matrix: SOLID  
Location Code: F&OENVIR  
Rush Request: RUSH##  
P.O.#: 20091286.A1E

### Custody Information

Collected by:  
Received by: LB  
Analyzed by: see "By" below

Date      Time  
05/04/10      11:15  
05/04/10      17:02

## Laboratory Data

SDG ID: GAZ01069  
Phoenix ID: AZ01070

Project ID: WITT SCHOOL

Client ID: S410SWC-02 GLAZING COMPOUND

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	05/06/10		M / JL	E160.3
Caulk Extraction for PCB	Completed			05/04/10		BB/K	SW3540C
<u>PCB (Soxhlet)</u>							
PCB-1016	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1221	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1232	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1242	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1248	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1254	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1260	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1262	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1268	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
<u>OA/QC Surrogates</u>							
% DCBP	122		%	05/05/10		MH	3540C/8082
% TCMX	50		%	05/05/10		MH	3540C/8082



Project ID: WITT SCHOOL

Phoenix I.D.: AZ01070

Client ID: S410SWC-02 GLAZING COMPOUND

Parameter	Result	RL	Units	Date	Time	By	Reference
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**Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director

May 06, 2010



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Draft Progress Report

May 06, 2010

FOR: Attn: Ms. Karen Redfield  
Fuss & O'Neill EnviroScience, LLC  
145 Hartford Road  
Manchester, CT 06040

### Sample Information

Matrix: SOLID  
Location Code: F&OENVIR  
Rush Request: RUSH##  
P.O.#: 20091286.A1E

### Custody Information

Collected by:  
Received by: LB  
Analyzed by: see "By" below

Date Time

05/04/10 11:30  
05/04/10 17:02

### Laboratory Data

SDG ID: GAZ01069  
Phoenix ID: AZ01071

Project ID: WITT SCHOOL

Client ID: S410SWC-03 GLAZING COMPOUND

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	05/06/10		M / JL	E160.3
Caulk Extraction for PCB	Completed			05/04/10		BB/K	SW3540C
<u>PCB (Soxhlet)</u>							
PCB-1016	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1221	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1232	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1242	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1248	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1254	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1260	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1262	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1268	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
<u>QA/QC Surrogates</u>							
% DCBP	117		%	05/05/10		MH	3540C/8082
% TCMX	33		%	05/05/10		MH	3540C/8082

Project ID: WITT SCHOOL

Phoenix I.D.: AZ01071

Client ID: S410SWC-03 GLAZING COMPOUND

Parameter	Result	RL	Units	Date	Time	By	Reference
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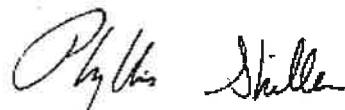
**Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

May 06, 2010



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## Draft Progress Report

May 06, 2010

FOR: Attn: Ms. Karen Redfield  
Fuss & O'Neill EnviroScience, LLC  
145 Hartford Road  
Manchester, CT 06040

### Sample Information

Matrix: SOLID  
Location Code: F&OENVIR  
Rush Request: RUSH##  
P.O.#: 20091286.A1E

### Custody Information

Collected by:  
Received by: LB  
Analyzed by: see "By" below

### Date Time

05/04/10 11:32  
05/04/10 17:02

### Laboratory Data

SDG ID: GAZ01069  
Phoenix ID: AZ01072

Project ID: WITT SCHOOL

Client ID: S410SWC-04 GLAZING COMPOUND

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	05/06/10		M/JL	E160.3
Caulk Extraction for PCB	Completed			05/04/10		BB/K	SW3540C
<u>PCB (Soxhlet)</u>							
PCB-1016	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1221	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1232	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1242	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1248	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1254	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1260	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1262	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
PCB-1268	ND	1.7	mg/Kg	05/05/10		MH	3540C/8082
<u>QA/QC Surrogates</u>							
% DCBP	102		%	05/05/10		MH	3540C/8082
% TCMX	109		%	05/05/10		MH	3540C/8082

Project ID: WITT SCHOOL

Phoenix I.D.: AZ01072

Client ID: S410SWC-04 GLAZING COMPOUND

Parameter	Result	RL	Units	Date	Time	By	Reference
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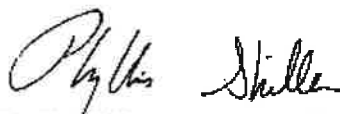
**Comments:**

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Phyllis Shiller, Laboratory Director

May 06, 2010

Thursday, May 06, 2010

Sample Criteria Exceedences Report

Page 1 of 1

Requested Criteria:

GAZ01069

SampNo	LocCode	Acode	Phoenix Analyte	Criteria Units	ST	State Category	Criteria Name	Result	RL	Factored Criteria	Factored RL Criteria	Analysis Units
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\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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- ☐ 76 Quarry Road, Trumbull, CT 06611
- ☐ 149 Orchard Street, Cromwell, CT 06351

- ☐ 78 Juncosville Drive, West Springfield, MA 01089
- ☐ 6111 Linnole Circle, North Lenoir, NC 27558
- ☐ 24 National Avenue, Albany, NY 12202

- ☐ 275 Princeton Street, Suite 200, Providence, RI 02908
- ☐ 80 Westchester Street, Suite 201, Westchester, NY 12581
- ☒ Other Swampscott, MA

146 Hartford Rd, Manchester

## CHAIN-OF-CUSTODY RECORD 21212

PROJECT NAME:

With School

PROJECT LOCATION:

20 Hyde Park Rd, Hartford CT

PROJECT NUMBER:

20090836 AIE

LABORATORY:

Phoenix Lab

REPORT TO:

KARON Redfield

Analysis Request

INVOICE TO:

Environmental Engineering (Karon Redfield)

P.O. NO. 20091216 AIE

Sampler's Signature:

Stephen W. Connolly

Date: 5/4/10

Source Codes:

MW=Mainline Water

SW=Surface Water

FW=Public Water

IS=Industrial Facility

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Relinquished By

Stephen W. Connolly  
Karon Redfield

Accepted By

Karon Redfield  
Stephen W. Connolly

Time

5/4/10 2:34 PM  
5/4/10 7:50 PM

Reporting and Detection Unit Response

Additional Comments

Traceable Number

1

Traceable Number

2

Traceable Number

3

Traceable Number

4

Item No.	Transfer Chain	Sample Number	Source Code	Date Sampled	Time Sampled	Analysis Request	Comments
1		5410SWC-01 Glazing Compound	X	5-4-10	11:00	X	Watermark
2		5410SWC-02 Caulk Compound	X	5-4-10	11:15	X	Watermark
3		5410SWC-03 Caulk Compound	X	5-4-10	11:30	X	Watermark
4		5410SWC-04 Glazing Compound	X	5-4-10	11:32	X	Watermark

Watermark  
Watermark  
Watermark  
Watermark  
Watermark  
Watermark





## Appendix E

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### Photographs



1991 Addition, low roof-right side



1991 Addition, low roof-left side



1991 Addition, low roof-built up roof layers-left side



1991 Addition, low roof-layers of built up roof





1991 Addition, low roof-along back edge



1991 Addition, low roof-back edge, layers of built up roof

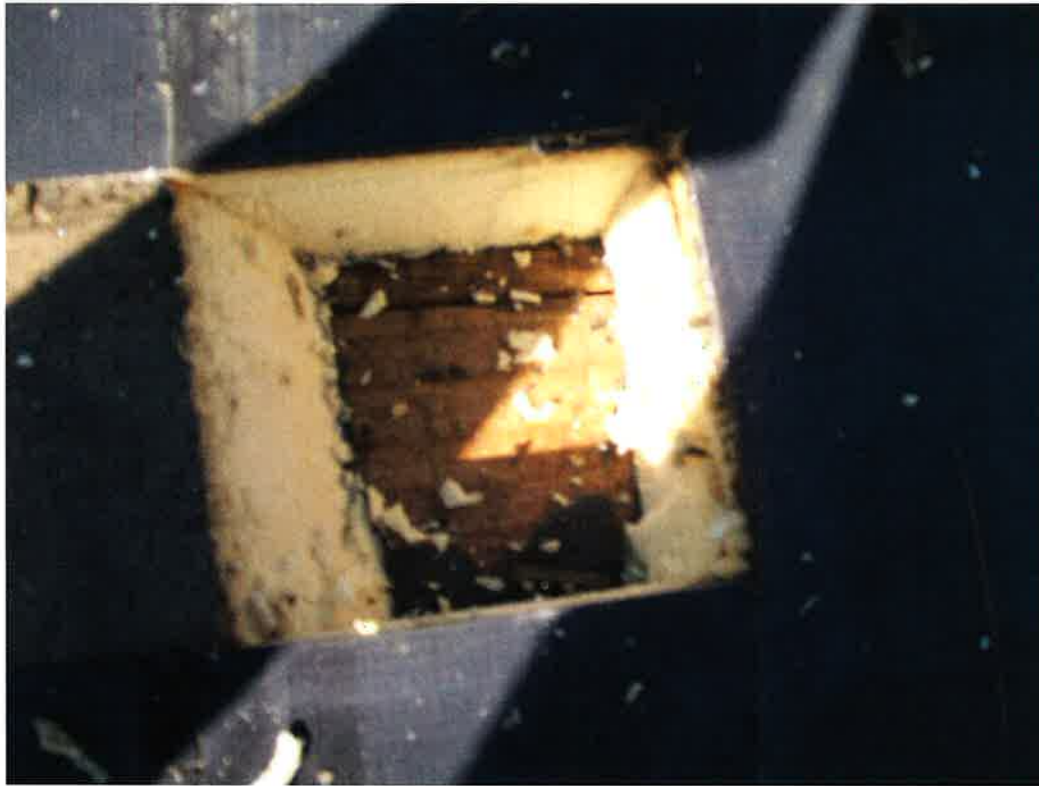


1991 Addition, low roof-built up roof-right side



Gym Roof layers-wood decking exposed





Gym roof layers-wood decking exposed



Layer of "Poly Iso" from gym roof



Exposed brick behind rubber membrane on gym parapet wall

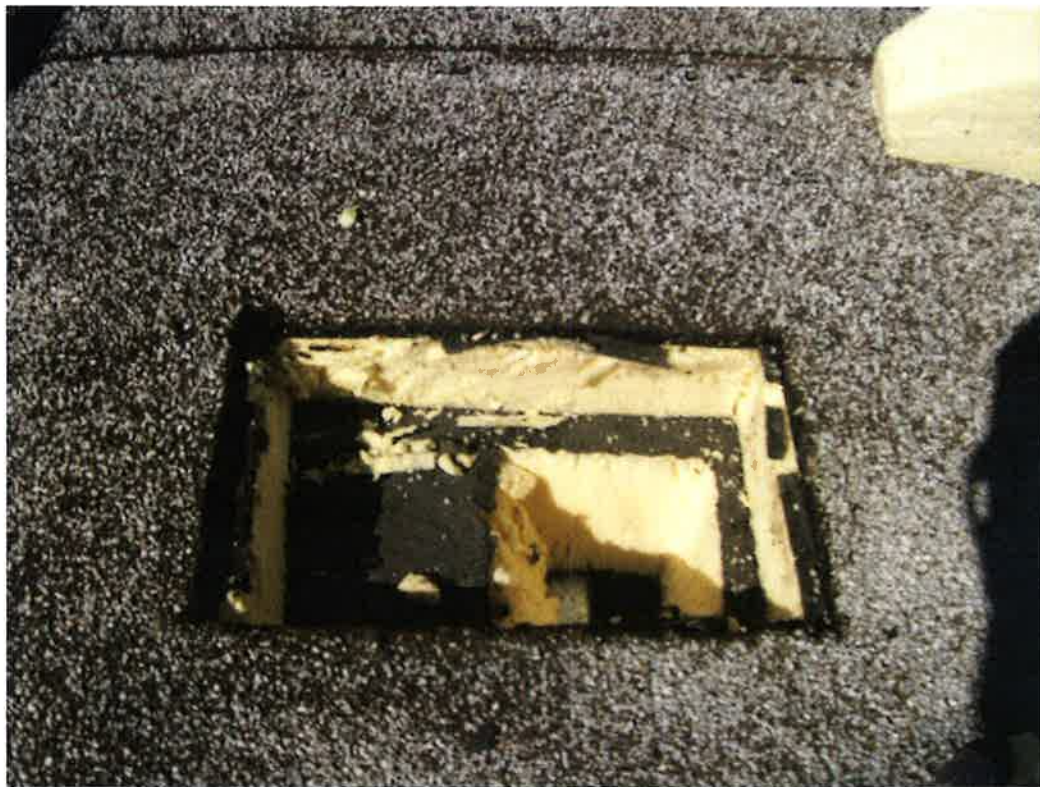


Low roof parapet wall adjacent to Gym (West side) – exposed brick behind membrane





Low roof adjacent to Gym-West side



1991 Addition High Roof-Built up roofing layers



Layer of "Poly Iso" from 1991 High Roof



1953 Parapet wall-exposed brick and adhesive behind membrane





1953 and 1991 Wall junction-cold application, fiberboard, brick wall



1953 Built up roofing layers and exposed deck

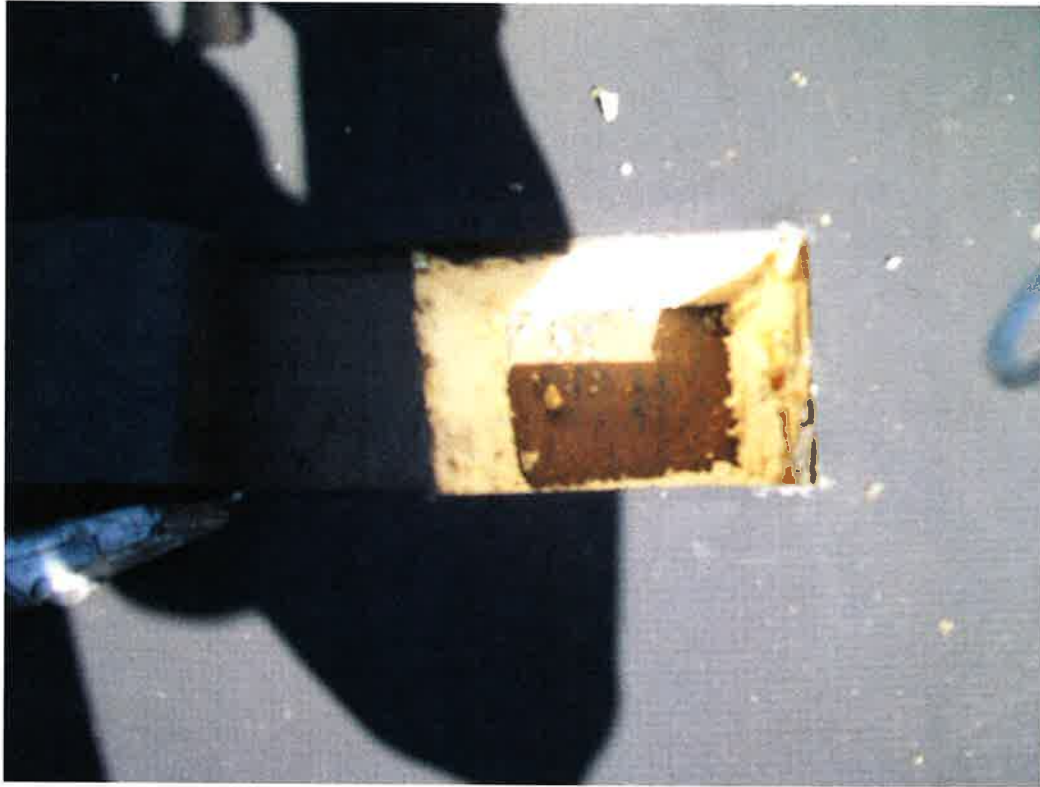


1953 Built up roof-wood deck exposed, "Poly iso" is in hand



Parapet wall and membrane adhesive (1937 Section)





1937 Section-Built up roofing-wood deck exposed



Pipe ACM inside wall cavity of first floor boy's room-hatchway entrance



Pipe ACM inside wall cavity (as seen from 1<sup>st</sup> floor boys' room)



Pipe ACM inside wall cavity of 1<sup>st</sup> floor boys' room