

***Prepared For:***

City of Springfield, Office of Housing & Neighborhood Services  
1600 East Columbus Avenue  
Springfield, MA 01105

ASBESTOS INSPECTION,  
PCB INSPECTION,  
LEAD PAINT (LBP) DETERMINATION REPORT,  
AND  
ENVIRONMENTAL CHECKLIST

***FOR***

***495 Chestnut St Section B***

***Springfield, MA***

***Prepared By:***



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West Springfield, MA 01089**

**CardnoATC Project Number: 081.28126.0287**

**October 11, 2013**

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***B..... SUMMARY OF NON-ASBESTOS MATERIALS***

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***D..... SUMMARY OF PCB SAMPLING AND ANALYSIS***

***E..... ENVIRONMENTAL CHECKLIST***

***F..... PHOTOGRAPHS***

***G..... LABORATORY REPORTS/CHAIN OF CUSTODY (PLM)***

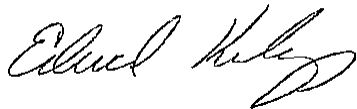
***H ..... LABORATORY REPORTS/CHAIN OF CUSTODY (PCB)***

**1.0 SITE INSPECTION SUMMARY**

**SITE:** 495 Chestnut Street  
Section B  
Springfield, MA

**CLIENT:** City of Springfield,  
1600 East Columbus Avenue  
Springfield, MA 01105

The enclosed Asbestos, Lead, PCB Inspection Report and Environmental Checklist was performed and prepared by CardnoATC. A limited pre-demolition asbestos inspection, lead determination and PCB testing of the above referenced structure was performed on September 30, 2013. The primary asbestos inspector for this project was Mr James Lowell, an EPA-trained and Massachusetts Certified Asbestos Inspector.



James Lowell  
Asbestos Inspector  
MA Inspector License #(AI074251)

The Report was reviewed and approved by:



Brian Williams  
Branch Manager

## **2.0 SITE DESCRIPTION**

The structure at 495 Chestnut Street, Springfield, Massachusetts is a Former Middle School. The Structure Section B is a 3-story Concrete Block School with a masonry foundation. Interior finishes include plaster, sheetrock, and various floor sheeting materials.

## **2.1 SURVEY LIMITATIONS**

## **3.0 ASBESTOS INSPECTION**

CardnoATC's Scope of Work included a limited Asbestos Inspection of the above referenced building. Outlined below is a description of CardnoATC's testing methodology.

### **3.1 ASBESTOS PROTOCOL**

CardnoATC performed a limited pre-demolition survey to identify suspect asbestos-containing materials in the above referenced building. The Asbestos Inspection included a visual assessment of suspect asbestos-containing materials and subsequent bulk sampling and analysis.

### **3.2 SAMPLING METHODOLOGY**

EPA and OSHA define ACM as any material containing greater than one percent (>1%) asbestos. THE ACM inspection and bulk sampling was performed in accordance with the methods outlined in the U.S. EPA guidance document titled, Guidance for Controlling Asbestos-Containing Materials in Buildings (Document No. 560/5-85/024). In addition, bulk sampling of asbestos was performed in accordance with 40 CFR Part 763., Asbestos Hazard Emergency Response Act (AHERA) requirements for number of samples and types of ACM to be sampled. According to these requirements, materials are classified as either surfacing (e.g., ceiling plaster, wall plaster, spray-applied fireproofing), thermal system insulation (e.g., pipe insulation, pipe fitting insulation, boiler insulation), or miscellaneous materials(e.g., floor tile, ceiling tile, wallboard). The number of samples collected from each material varies based on the classification of the material and increases as the potential for a non-uniform mixture of asbestos in the material increases.

### **3.3 SAMPLE COLLECTION**

Samples collected for asbestos analysis were obtained by qualified and certified (Certified State of Massachusetts Site Inspector) personnel utilizing proper safety measures such as wetting the material prior to sampling, cleaning up the area by wet wiping any resulting residual debris, and wearing proper protective equipment, as needed. In order to be certain of sampling the entire thickness of a material, coring tools and knives were utilized to penetrate all layers of a material. All collected samples were then placed in appropriately labeled airtight containers for shipment to the laboratory for analysis.

### **3.4 SAMPLE ANALYSIS (PLM)**

Bulk samples were analyzed for asbestos content using Polarized Light Microscopy (PLM) with Dispersion Staining (EPA Method 600/M4-82-020:Interim Method for the Determination of Asbestos in Bulk Building Materials). To qualify as asbestos-containing, the material must be determined to contain greater than or equal to one percent ( $\geq 1\%$ ) from a homogeneous material area set of samples.

Consequently, according to the EPA/AHERA and State of Massachusetts Department of Environmental Protection criteria, all bulk samples from a homogeneous area must be found to contain less than one percent ( $< 1\%$ ) asbestos in order to be classified as non-asbestos-containing.

#### **4.0 LEAD-BASED PAINT DETERMINATION**

CardnoATC performed a limited lead determination of painted, stained or varnished components located throughout the building listed above. Outlined below is a description of CardnoATC's testing methodology.

#### **4.1 TESTING PROTOCOL**

All testing was performed utilizing a portable X-Ray Fluorescent (XRF) Analyzer in accordance with Massachusetts Department of Public Health (DPH) 105 CMR 460 regulations for lead determination. For the purpose of reporting, the building was divided into "testing combinations". Testing combinations are defined as types of painted building components which appear uniform in paint color and architectural feature.

#### **4.2 XRF ANALYSIS**

An Niton spectrum analyzer lead detector was used for all on-site XRF testing. The instrument adjusts the length of each reading based upon the substrate, until a 95% confidence level is achieved. All personnel who operated the portable XRF analyzer were trained by the manufacturer in safety measures and testing protocols. In accordance with the Occupational Safety and Health Administration (OSHA) 29 CFR 1926.62 Regulations, an XRF can be utilized to determine the presence of lead but not the absence of lead.

#### **5.0 PCB TESTING PROTOCOL**

Samples were collected from each area where a separate type, texture or usage of caulking or glazings was identified. The samples were collected in accordance with Environmental Protection Agency (EPA) Method 3540C from the EPA's SW-846 and then analyzed in accordance with EPA Method 8082.

#### **6.0 FINDINGS**

**Asbestos-containing materials** were detected in several material applications throughout the above mentioned building.

**Reportable levels of PCB's** were not found in several material applications in the building.

**Lead-containing materials** were detected in several material applications randomly tested throughout the above mentioned areas. Refer to the following Attachments for a summary of each material tested, location and abatement cost estimates and analytical results:

Asbestos-Containing Materials:	<i>Refer to Attachment A</i>
Non-Asbestos Materials:	<i>Refer to Attachment B</i>
Summary of Lead Paint Determination	<i>Refer to Attachment C</i>
Summary of PCB Sampling Results	<i>Refer to Attachment D</i>
Environmental Checklist:	<i>Refer to Attachment E</i>

## 7.0 CONCLUSIONS

The following response actions are required to be implemented as part of the renovation/demolition project:

- A. All demolition work, which disturbs lead-containing materials, will be subject to OSHA 29 CFR 1926.62 “Lead in Construction Regulations”. Under OSHA, the employer is responsible for protection of their employees when performing renovation and/or demolition work which disturbs lead materials. Compliance shall include written programs, medical monitoring, exposure assessment testing and engineering controls
- B. In accordance with EPA’s National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations, all materials found to be asbestos-containing in the building will be required to be abated prior to renovation/demolition activities. In addition, all asbestos abatement work is required to be performed by a Massachusetts state licensed Asbestos Abatement Contractor in accordance with local, state and federal regulations.
- C. Any suspect asbestos-containing material discovered during the course of renovation/demolition which is not included in this report shall be assumed to be asbestos-containing until further bulk sampling and analysis is performed.
- D. The Massachusetts Department of Environmental Protection (DEP), as well as the U.S. Environmental Protection Agency (EPA) currently recognize Polarized Light Microscopy (PLM) analysis as an acceptable analytical method for determining the Asbestos content in non-friable, organically bound (NOB) materials.



However, comparative studies between PLM analysis and Transmission Electron Microscopy (TEM) analysis have shown that PLM analysis may yield false negative analytical results for NOB's such as floor tiles.

CardnoATC recommends that, prior to Renovation/Demolition activities, one sample from each homogeneous area of floor tiles and other non-friable organically bound (NOB) materials that originally tested negative by PLM undergo confirmatory analysis by TEM, utilizing ELAP-198.4 TEM Method for Identifying and Quantifying Asbestos in NOB bulk samples.

## *Attachment A*

### *Summary of Asbestos-Containing Materials*

<i>Asbestos-Containing Materials Exterior Section B</i>				
<i>Location</i>	<i>Material Description</i>	<i>Amount</i>	<i>Units</i>	<i>Comments</i>
3 <sup>rd</sup> Floor Northwest Hall	Glazing On Hall Security Door & Window	30	LF	
3 <sup>rd</sup> Floor Room 3A	White Sink Undercoat	3	SF	
3 <sup>rd</sup> Floor Room 3C	White Sink Undercoat	3	SF	
3 <sup>rd</sup> Floor Room 3L	White Sink Undercoat	4	SF	
2 <sup>nd</sup> Floor Room 2D	White Sink Undercoat	3	SF	
3 <sup>rd</sup> Floor Room 3A	White Floor Paper Under Felt	1325	SF	Under Felt
3 <sup>rd</sup> Floor Room 3B	White Floor Paper Under Felt	980	SF	Under Felt
3 <sup>rd</sup> Floor Room 3C	White Floor Paper Under Felt	1000	SF	Under Felt
3 <sup>rd</sup> Floor Room 3D	White Floor Paper Under Felt	925	SF	Under Felt
3 <sup>rd</sup> Floor Room 3D	White Floor Paper Under Felt	1000	SF	Under Felt
3 <sup>rd</sup> Floor Room 3G	White Floor Paper Under Felt	870	SF	Under Felt
3 <sup>rd</sup> Floor Room 3H	White Floor Paper Under Felt	820	SF	Under Felt
3 <sup>rd</sup> Floor Room 3J	White Floor Paper Under Felt	1050	SF	Under Felt

<i>Asbestos-Containing Materials Exterior Section B</i>				
<i>Location</i>	<i>Material Description</i>	<i>Amount</i>	<i>Units</i>	<i>Comments</i>
3 <sup>rd</sup> Floor Room 3K	White Floor Paper Under Felt	700	SF	Under Felt
3 <sup>rd</sup> Floor Room 3L	White Floor Paper Under Felt	775	SF	Under Felt
3 <sup>rd</sup> Floor Room 3E	9"x9" White w/Green Stripes Floor Tile	410	SF	
3 <sup>rd</sup> Floor Room 3E	Mastic Under 9"x9" White w/Green Stripes F.T.	410	SF	
3 <sup>rd</sup> Floor Room 3G	9"x9" White w/Green Stripes Floor Tile	870	SF	
3 <sup>rd</sup> Floor Room 3G	Mastic Under 9"x9" White w/Green Stripes F.T.	870	SF	
2 <sup>nd</sup> Floor Kitchen Storage	9"x9" White w/Green Stripes Floor Tile	875	SF	
2 <sup>nd</sup> Floor Kitchen Storage	Mastic Under White w/Green Storage F.T.	875	SF	
3 <sup>rd</sup> Floor Room 3B	Wiring On Heat Register	1	LF	
3 <sup>rd</sup> Floor Room 3C	Wiring On Heat Register	1	LF	
3 <sup>rd</sup> Floor Room 3G	Wiring On Heat Register	1	LF	
3 <sup>rd</sup> Floor Room 3H	Wiring On Heat Register	1	LF	
3 <sup>rd</sup> Floor Room 3J	Wiring On Heat Register	1	LF	

<i>Asbestos-Containing Materials Exterior Section B</i>				
<i>Location</i>	<i>Material Description</i>	<i>Amount</i>	<i>Units</i>	<i>Comments</i>
3 <sup>rd</sup> Floor room 3K	Wiring On Heat Register	1	LF	
3 <sup>rd</sup> Floor Room 3L	Wiring On Heat Register	1	LF	
#2 Gym	Brown Paper Under Floor	3500	SF	
2 <sup>nd</sup> Floor Room 2D	1'x 1' Beige w/Brown Streaks Floor Tile	25	SF	
2 <sup>nd</sup> Floor Storage #2	Transite	10	SF	
#1 Gym	TSI Pipe Insulation	55	LF	
Boiler Room Under Gym	TSI Pipe Insulation	200	LF	
Crawl Space Under #2 Gym	TSI Pipe Insulation	600	LF	
Crawl Space Under Stairs	TSI Pipe Insulation	20	LF	
Gaskets On Valves	Boiler Room	10	EA	Assumed
Crawl Space Under #2 Gym	Debris in Soil	7100	SF	
Crawl Space Under Stairs	Debris In Soil	385	SF	
Exterior Throughout	Caulk On Window Sills	67	EA	

<i>Asbestos-Containing Materials Exterior Section B</i>				
<i>Location</i>	<i>Material Description</i>	<i>Amount</i>	<i>Units</i>	<i>Comments</i>
Exterior Gym	Glazing On 7'x12' Windows	10	EA	
Exterior Throughout	Caulk On 2'x 3' Vents	18	EA	
Exterior Throughout	Door Frame Caulk	12	EA	
Exterior Throughout	White Expansion Caulk	1800	LF	
Exterior Throughout	Glazing On 6-Light Window Sash	86	EA	
Top Roof	Black Tar On Round Ventilators	14	EA	
Lower Roof	Black caulk On Copper Flashing	320	LF	
#1 Gym Roof	Black Paper On Facia	80	LF	Assumed/Non Accessible
#1 Gym Roof	Black Paper On	400	SF	Assumed/Non Accessible

***Attachment B***

***Non-Asbestos Containing Materials***

<i>Non-Asbestos Materials Table Section B</i>		
<i>Material Description</i>	<i>Location</i>	<i>Bulk Sample Reference #</i>
Plaster Skim	Throughout	495C-01A-G
Plaster Base	Throughout	495C-02A-G
Wall Covering	Throughout	495C-03A-D
Terrazzo Floor	Throughout	495C- 04A-B
Glazing On Hall Security Door	2 <sup>nd</sup> Floor Southwest Hall	495C- 05A-B
White Backer Material Behind 6” Ceramic Cove Base	3 <sup>rd</sup> Floor North Hall	495C- 06A-B
Black Paint On Perimeter Brick	Throughout	495C-7A-D
Showcase Fiberboard	3 <sup>rd</sup> Floor Hall	495C-8A-B
Mastic Behind Showcase Fiberboard	3 <sup>rd</sup> Floor Hall	495C-9A-B
Yellow Carpet Mastic	3 <sup>rd</sup> Floor Northwest Hall	495C-10A-B
Sand Material Behind Plaster Wall	3 <sup>rd</sup> Floor Northwest Hall	495C-11A-B
Backer Board Behind Door Panels	3 <sup>rd</sup> Floor Northwest Hall	495C-13A-B
Chalkboards	Throughout	495C-14A-B
Sheetrock	Throughout	495C-15A-D
Joint Compound	Throughout	495C-16A-D
Backer Under Ceramic Window Sills	Throughout	495C-17A-B
Ceramic Window Sill	Throughout	495C-18A-B
2’x 4’ Fissure Ceiling Tile	Throughout	495C-19A-B
Mastic Behind Countertop Cove Base	3 <sup>rd</sup> Floor Room 3A	495C-20A-B
Gray Grout On Countertop Cove Base	3 <sup>rd</sup> Floor Room 3A	495C-21A-B
Bottom Floor Paper	Throughout	495C-23A-B
Black Floor Paper With Web Backer	Throughout	495C-24A-B
Gray Felt Paper Under Floor	Throughout	495C-25A-B
1’x 1’ Brown w/Dark Streaks Floor Tile	3 <sup>rd</sup> Floor Room 3B	495C-26A-B
Mastic Under 1’x 1’ Brown w/Dark Streaks Floor Tile	3 <sup>rd</sup> Floor Room 3B	495C-27A-B
1’x 1’ Tan w/White & Brown Streaks Floor Tile	3 <sup>rd</sup> Floor Room 3B	495C-28A-C
Mastic Under Tan w/White & Brown Streaks Floor Tile	3 <sup>rd</sup> Floor Room 3B	495C-29A-C
1’x 1’ White Self Adhesive Floor Tile	3 <sup>rd</sup> Floor Room 3B	495C-30A-B



<i>Non-Asbestos Materials Table Section B</i>		
<i>Material Description</i>	<i>Location</i>	<i>Bulk Sample Reference #</i>
Mastic Under 1'x 1' White Self Adhesive Floor Tile	3 <sup>rd</sup> Floor Room 3B	495C-31A-B
Wire Coating	Throughout	495C-33A-B
2'x 2' Security Window Glazing	3 <sup>rd</sup> Floor Room 3D	495C-34A-B
4" Brown Cove Base	3 <sup>rd</sup> Floor Room 3F	495C-37A-B
Mastic Under 4' Brown Cove Base	3 <sup>rd</sup> Floor Room 3F	495C-38A-B
Air Vent Gasket	3 <sup>rd</sup> Floor Room 3F	495C-39A-B
Gasket On Interior Wall Damper	3 <sup>rd</sup> Floor Room 3C	495C-40A-B
Fiberboard Closet Ceiling	3 <sup>rd</sup> Floor Room 3F	495C-A-C
Smooth Texture Ceiling	3 <sup>rd</sup> Floor Girls Room	495C-A-C
Flex Connector	3 <sup>rd</sup> Floor Girls Room	495C-44A-B
6"x 6" Skim White Coat On Wall	3 <sup>rd</sup> Floor Girls Room	495C-45A-C
6"x 6" Rough Brown Skim Coat	3 <sup>rd</sup> Floor Girls Room	495C-45B-A-C
4" White Wall Tile Grout	3 <sup>rd</sup> Floor Girls Room	495C-46A-B
4" White Wall Tile Mastic	3 <sup>rd</sup> Floor Girls Room	495C-47A-B
Grout On Inlaid Marble floor	3 <sup>rd</sup> Floor Girls Room	495C-48A-B
Caulking On 4'x4' White Wall Tile	3 <sup>rd</sup> Floor Girls Room	495C-49A-B
Debris Floor Paper	Attic	495C-50A-B
Radiator Cover	3 <sup>rd</sup> Floor Corridor D	495C-51A-B
Mastic Under Radiator Cover	3 <sup>rd</sup> Floor Corridor D	495C-52A-B
1'x 1' Cork Board Floor	3 <sup>rd</sup> Floor Room 3P	495C-53A-B
Silver Door Caulk	#2 Gym	495C-56A-B
Brown Paper #2 Under Floor	Storage Room #2	495C-57A-C
White Flacking Ceiling Paint	2 <sup>nd</sup> Floor Room 2A	495C-58A-B
Firebrick	2 <sup>nd</sup> Floor Room 2B	495C-59A-B
Mastic Under 1'x 1' Beige w/Brown Streaks Floor Tile	2 <sup>nd</sup> Floor Room 2D	495C-61A-B
1'x 1' Beige Floor Tile	2 <sup>nd</sup> Floor 2D-B	495C-62A-B
Mastic Under 1'x 1' Beige Floor Tile	2 <sup>nd</sup> Floor Room 2D-B	495C-63A-B
9"x 9" Gray w/Black Streaks Floor Tile	2 <sup>nd</sup> Floor Room 2D-B	495C-64A-B
Mastic Under 8"x 8" Gray w/Black Streaks Floor Tile	2 <sup>nd</sup> Floor Room 2D-B	495C-65A-B

<i>Non-Asbestos Materials Table Section B</i>		
<i>Material Description</i>	<i>Location</i>	<i>Bulk Sample Reference #</i>
1'x 1' Rust Model Floor Tile	2 <sup>nd</sup> Floor Room 2E	495C-66A-B
Mastic Under 1'x 1' Rust Model Floor Tile	2 <sup>nd</sup> Floor Room 2E	495C-67A-B
Glue Daubs On Plaster Wall	2 <sup>nd</sup> Floor Kitchen	495C-68A-B
Yellow Mastic On Duct	2 <sup>nd</sup> Floor Kitchen	495C-69A-B
6"x 6" Ceramic Floor Tile Grout	2 <sup>nd</sup> Floor Kitchen	495C-70A-B
6"x 6" Ceramic Floor Tile Mastic	2 <sup>nd</sup> Floor Kitchen	495C-71A-B
Skim On Concrete	2 <sup>nd</sup> Floor Kitchen	495C-72A-C
Pipe Fittings	Throughout	495C-73A-C
Silver Coat On Column	2 <sup>nd</sup> Floor Kitchen	495C-74A-B
4" Black Cove Base	2 <sup>nd</sup> Floor Kitchen Ladies Locker	495C-75A-B
Mastic Under 4" Black Cove Base	2 <sup>nd</sup> Floor Kitchen Ladies Locker	495C-76A-B
Yellow Mastic On Freezer Door	2 <sup>nd</sup> Floor Freezer Room	495C-77A-B
Brown Duct Sealant	2 <sup>nd</sup> Floor Room 2F	495C-78A-B
Red Paper Under Floor	#1 Gym	495C-80A-B
Skim On Block Window Opening	#1 Gym	495C-82A-C
Skim On Valve Breeching	Boiler Room	495C-83A-C
Boiler Rib Gasket	Boiler Room	495C-85A-B
Trawled On Boiler Insulation	Boiler Room	495C-86A-C
Boiler Breeching Duct	Boiler Room	495C-87A-C
Brown wall mastic On Brick Wall	Crawl Space Throughout	495C-89A-B
Black Material On Mortar Behind Yellow Brick	Exterior/Throughout	495C-90A-B
Caulk On 4'x 5' Fiberglass Window	Exterior/Northwest	495C-97A-B
Black Pebbled Membrane	Exterior/Top Roof	495C-98A-B
Tar Under Black Pebbled Membrane	Exterior/Top Roof	495C-99A-B
Black Paper Under Pebbled Membrane	Exterior/Top Roof	495C-100A-B
Brown Paper	Exterior/Top Roof	495C-101A-B
Black Membrane Under Paper	Exterior/Top Roof	495C-102A-B
Black Pebbled Membrane	Exterior/Lower Roof	495C-103A-B
Paper Under Black Pebbled Membrane	Exterior/Lower Roof	495C-104A-B

<i>Non-Asbestos Materials Table Section B</i>		
<i>Material Description</i>	<i>Location</i>	<i>Bulk Sample Reference #</i>
Black Wall Shingle	Exterior/Lower Roof	495C-105A-B
Tar Mastic Under Black Wall Shingle	Exterior/Lower Roof	495C-106A-B
Aluminum Facia Membrane	Exterior/Lower Roof	495C-107A-B
Mastic Under Aluminum Facia Membrane	Exterior/Lower Roof	495C-108A-B
Black Tar On Brick	Exterior/Lower Roof	495C-110A-B

*Attachment C*

*Lead Paint Determination*

<b>Lead Paint Determination Summary</b>			
<b>Location</b>	<b>Color</b>	<b>Component</b>	<b>XRF Results</b>
3 <sup>rd</sup> Floor Northwest	White	Plaster Ceiling	0.2
3 <sup>rd</sup> Floor Northwest Hall	White	Sprinkler Head pipe	0.0
3 <sup>rd</sup> Floor Northwest Hall	White	Upper Wall Crown Molding	2.8
3 <sup>rd</sup> Floor Office #1	White	Sheetrock Wall	0.00
3 <sup>rd</sup> Floor Office #1	Brown	Chai rail	2.3
3 <sup>rd</sup> Floor Office #1	Brown	Bottom Base Board	0.0
3 <sup>rd</sup> Floor Office #1	White	Plaster Wall C Side	0.6
3 <sup>rd</sup> Floor Office #1	White	Window Lower Sash	7.9
3 <sup>rd</sup> Floor Office #1	White	Window Frame	2.1
3 <sup>rd</sup> Floor Office #1	Silver	Radiator	0.04
3 <sup>rd</sup> Floor Office #1	Brown	Door Casing	1.3
3 <sup>rd</sup> Floor Office #1		Door w/1-Light	1.3
3 <sup>rd</sup> Floor Stairwell C		Security Door Frame	4.2
3 <sup>rd</sup> Floor Stairwell C		Security Door	0.27
3 <sup>rd</sup> Floor Stairwell C		Stairwell Window Frame	2.7
3 <sup>rd</sup> Floor Room 3A	White	Plaster Ceiling	0.18
3 <sup>rd</sup> Floor Room 3A	Brown	Floor Under Carpet	0.7
3 <sup>rd</sup> Floor Room 3B	Green	Heat Register	0.08
3 <sup>rd</sup> Floor Room 3B	Brown	Chalkboard	1.9
3 <sup>rd</sup> Floor Room 3B	Brown	Base Board	2.4
3 <sup>rd</sup> Floor Room 3B	Lime/Green	Paint On Wall	0.26
3 <sup>rd</sup> Floor Corridor D North	Brown	Window Apron	1.06
3 <sup>rd</sup> Floor Corridor North	Silver	Heat Radiator	0.05
3 <sup>rd</sup> Floor Corridor D North	Green	Paint On Lockers	0.00
3 <sup>rd</sup> Floor Corridor D North	White	6-Light Sash Window	8.6
3 <sup>rd</sup> Floor Room 3D	Brown	Wood Floor	0.00
3 <sup>rd</sup> Floor Room 3 D	White	Paint On Sink	1.5
3 <sup>rd</sup> Floor Room 3D	White	Wood Cabinet	0.02
3 <sup>rd</sup> Floor Stairwell D North	Green	Security Door	0.27
3 <sup>rd</sup> Floor Stairwell D North	Green	14-Light Window Sash	2.5

<b>Lead Paint Determination Summary</b>			
<b>Location</b>	<b>Color</b>	<b>Component</b>	<b>XRF Results</b>
3 <sup>rd</sup> Floor Stairwell D North	Green	Door Frame	3.7
3 <sup>rd</sup> Floor Stairwell D North	Green	Handrail Post	2.1
3 <sup>rd</sup> Floor Stairwell D North	Green	Chair Rail	1.7
3 <sup>rd</sup> Floor Stairwell D North	Green	Metal Railing	0.00
3 <sup>rd</sup> Floor Stairwell D North	Green	Stair Stringer	1.1
3 <sup>rd</sup> Floor Stairwell D North	Green	Stair Riser	2.2
3 <sup>rd</sup> Floor Stairwell D North	White	6-Light Sash Window	5.0
3 <sup>rd</sup> Floor Stairwell D North	White	6-Light Window Frame	2.6
3 <sup>rd</sup> floor Corridor E	White	Plaster Wall	0.6
3 <sup>rd</sup> Floor Corridor E	Black	Black Paint On Wall	0.00
3 <sup>rd</sup> Floor Corridor E	Brown	Upper Hall Chair Rail	1.5
2 <sup>nd</sup> Floor Room 227	Brown	Chalkboard Tray	3.0
2 <sup>nd</sup> Floor Room 2F	Brown	Wood Cabinet Door	2.1
2 <sup>nd</sup> Floor Room 2F	Brown	Wood Cabinet Shelf	1.8
2 <sup>nd</sup> Floor South Girls	White	Girls Bath 8"Round Duct	0.00
2 <sup>nd</sup> Floor South Girls	Green	Bath Stalls	5.5
2 <sup>nd</sup> Floor Corridor	White	Fire Cabinet	0.00
#2 Gym	Green	7'x12' Green Window Frame	1.6
#2 Gym	Green	7'x 12' Green 9-Light Sash	5.7
#2 Gym	Green	Exterior Exit Door	0.00
#2 Gym	Green	Exterior Exit Door Frame	0.02
#2 Gym	Green	Gym Office Door	2.9
2 <sup>nd</sup> Floor Corridor C		Interior Dining Hall Window Frame	2.4
2 <sup>nd</sup> Floor corridor C		Interior Dining Hall Window Sill	1.5
2 <sup>nd</sup> Floor Corridor C	White	A Wall Plaster wall	0.15
2 <sup>nd</sup> Floor Corridor C		Dining Hall Door	1.3
2 <sup>nd</sup> Floor Storage Room 1	White	White Paint On Brick	0.06
2 <sup>nd</sup> Floor Storage Room 1	Gray	Gray Paint On Brick	1.2
2 <sup>nd</sup> Floor Storage Room 1	Brown	Wood Floor	0.01
2 <sup>nd</sup> Floor Storage room 1	Brown	Exterior Door	0.22

<b>Lead Paint Determination Summary</b>			
<b>Location</b>	<b>Color</b>	<b>Component</b>	<b>XRF Results</b>
2 <sup>nd</sup> Floor Room 2A	White	Brick Walls	1.0
2 <sup>nd</sup> Floor Room 2A	White	12-Light Window Sash	5.3
2 <sup>nd</sup> Floor Room 2A	White	Plaster Ceiling	0.4
2 <sup>nd</sup> Floor Storage #2	Blue	Light Blue Paint On Walls	0.00
2 <sup>nd</sup> Floor Room 2B	White	Interior Passing Door	1.0
2 <sup>nd</sup> Floor Room 2B	White	Storage Cabinet	0.00
2 <sup>nd</sup> Floor Room 2B	White	Hopper Shoot	0.00
2 <sup>nd</sup> Floor Corridor D	White	6-Light Window Sash	8.2
2 <sup>nd</sup> Floor Corridor D	White	6-Light Window Sill	2.5
2 <sup>nd</sup> Floor Room D		South Corner Wood Framing	0.26
2 <sup>nd</sup> Floor Room 2D-B	Black	Door	0.06
2 <sup>nd</sup> Floor Room 2D-B	White	Fiberboard Wall	0.23
2 <sup>nd</sup> Floor Room 2D-B	Yellow	Brick Wall	0.21
2 <sup>nd</sup> Floor Room 2D	Orange	Cabinet	6.3
2 <sup>nd</sup> Floor Kitchen	Yellow	Plaster Wall	0.00
2 <sup>nd</sup> Floor Kitchen	Yellow	Sheetrock Wall	0.00
2 <sup>nd</sup> Floor Kitchen	Green	Column	0.27
2 <sup>nd</sup> Floor Kitchen	Black	Window wire Cloth Screen	0.00
2 <sup>nd</sup> Floor South	Green	Brick Wall	0.07
2 <sup>nd</sup> Floor Dining Hall		Column	0.05
2 <sup>nd</sup> Floor Dining Hall		Interior Wall	0.06
2 <sup>nd</sup> Floor Dining Hall		Interior Door	2.4
2 <sup>nd</sup> Floor Dining Hall		Interior Window Sill	1.8
#1 Gym	White	Interior Window Sill	1.8
#1 Gym	White	Plaster Wall	2.4
#1 Gym	Brown	Wood Floor	0.07
#1 Gym	White	Ceiling	0.30
#1 Gym	White	Radiator	0.05
#1 Gym	White	Floor Matt Holder	1.8
Boiler Room	White	Plaster Wall	0.09
Boiler Room	Gray	Fire Door	14.0

<b>Lead Paint Determination Summary</b>			
<b>Location</b>	<b>Color</b>	<b>Component</b>	<b>XRF Results</b>
Boiler Room	Blue	Door Frame	0.4
Crawl Space	Rust	Structural Beam	0.23
Exterior Southeast Corner	Brown	Exterior Door	0.00
Exterior East Center	Brown	Exterior Door Frame	9.7
Exterior East Center	Brown	Solid Window Frame	0.6
Exterior Northeast Corner	Brown	Structural Beam On Awning	0.00
Exterior North Side		6-Ligh 5'x7' Window	7.2
Exterior Annex	Gray	Structural Beam	0.00



***Attachment D***

***PCB Summary Table***

**Attachment D**  
**PCB Summary Results**

<b>SAMPLE</b>	<b>MATERIAL</b>	<b>LOCATION</b>	<b>RESULTS PPM</b>	<b>AROCLORS</b>	<b>DETECTION LIMIT</b>
<b>475-01A</b>	Window Glazing	B- Annex South Side #4	N/D	N/D	0.68 mg/Kg
<b>475.02A</b>	Door Frame Caulk	B-Annex Door South Side	N/D	N/D	0.78 mg/Kg
<b>475-03A</b>	Window Glazing On 6-Light Sash	South Side #3 Window	N/D	N/D	0.69 mg/Kg
<b>475-04A</b>	White Expansion Caulk	Above #2 Gym South Side	N/D	N/D	0.73 mg/Kg
<b>475-05A.</b>	2'x 3' Vent Frame Caulk	30'From Annex Door South Side	N/D	N/D	0.71 mg/Kg
<b>475-06a</b>	Gray Caulk On Window Frame & Sills	South Side #3 Window	N/D	N/D	0.75 mg/Kg
<b>475-07A</b>	Fame Caulk On Fiberglass Windows	North East Corner #2 Window	N/D	N/D	0.73 mg/Kg
<b>475-08A</b>	Black Caulk On Copper Flashing	Lower Roof 10' in from Northeast Corner	N/D	N/D	0.75 mg/Kg

*Attachment E*

*Environmental Checklist*

## SITE VISIT SUMMARY

**Site Information:** 495 Chestnut Street Section B  
Springfield, MA

**Date of Site Visit:** October 03, 2013,

**Site Description:** The Former Chestnut Street Middle School Section B is a three story structure. It is a Concrete Block framed school with a masonry foundation.

Construction	Concrete Block
Building Use	School
Structure Dimensions (estimated)	120'x 200'x 50'
Underground Storage Tanks (USTs)	None Observed
Aboveground Storage Tanks (ASTs)	None Observed
Paint Cans	69 Paint Cans
55-gallon drums	5 Drums
Interior Refuse	Household Debris
Exterior Refuse	Yes
Stained soil	Yes
Distressed Vegetation	Yes
Dry wells	None
Paint thinners	See Below
Floor drains	Kitchen

**Comments: 6-Gallon Floor Wax, 15 Gallon Photo Chemical**

*Attachment F*

*Photographs*

Former Chestnut Street School

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Photo #1



Photo #2

Former Chestnut Street School

---



Photo #3



Photo #4

Former Chestnut Street School

---



Photo #5



Photo #6



Former Chestnut Street School

---



Photo #7



Photo #8

Former Chestnut Street School

---



Photo #9



Photo #9



Photo #10



Photo #11

Former Chestnut Street School

---



Photo #12



Photo #13

Former Chestnut Street School

---



Photo #14



Photo #15

## *Attachment G*

### *Laboratory Reports/Chain-of-Custody (PLM)*

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CustomerPO: 11-81-0030

ProjectID:

Attn: **Brian Williams**  
**Cardno ATC**  
**73 William Franks Drive**  
**West Springfield, MA 01089**

Phone: (413) 781-0070  
 Fax: (413) 781-3734  
 Received: 09/27/13 10:05 AM  
 Analysis Date: 10/1/2013  
 Collected: 9/17/2013

Project: CITY OF SPRINGFIELD/ 495 CHESTNUT ST. SPRINGFIELD, MA

## 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
495C-25B 031338224-0071	BUILDING A - TAR PAPER ON PEA GRAVEL ROOF	Black Fibrous Homogeneous		64% Matrix 36% Non-fibrous (other)	None Detected
495C-25C 031338224-0072	BUILDING A/S - TAR PAPER ON PEA GRAVEL ROOF	Non-Fibrous Heterogeneous		25% Quartz 75% Matrix 0% Non-fibrous (other)	None Detected
495C-26A 031338224-0073	BUILDING B - TEXTURE COAT ON BLOCK WALL	Gray/White Non-Fibrous Heterogeneous		15% Quartz 55% Ca Carbonate 30% Non-fibrous (other)	None Detected
Analyse textured coat only					
495C-26B 031338224-0074	BUILDING B - TEXTURE COAT ON BLOCK WALL	White Non-Fibrous Heterogeneous		10% Quartz 55% Ca Carbonate 35% Non-fibrous (other)	None Detected
Analyse textured coat only					
495C-26C 031338224-0075	BUILDING B - TEXTURE COAT ON BLOCK WALL	Gray Non-Fibrous Homogeneous		70% Quartz 5% Mica 25% Non-fibrous (other)	None Detected
495C-27A 031338224-0076	BUILDING A/B - ADHESIVE ON BATH STALL DIVIDER	Brown Non-Fibrous Homogeneous	10% Cellulose	85% Matrix 5% Non-fibrous (other)	None Detected

## Analyst(s)

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Henry Akintunde (34)

Emily Myint (22)

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James Hall, Laboratory Manager  
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Initial report from 10/01/2013 15:40:19

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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
495C-27B 031338224-0077	BUILDING A/B - ADHESIVE ON BATH STALL DIVIDER	Brown/Silver Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
495C-28A 031338224-0078	BUILDING A/B/ S - WEB MATERIAL ROOF COVER	Black Fibrous Heterogeneous	35% Glass	55% Matrix 10% Non-fibrous (other)	None Detected
495C-28B 031338224-0079	BUILDING A/B/ S - WEB MATERIAL ROOF COVER	Black Non-Fibrous Homogeneous	10% Glass 15% Cellulose	55% Matrix 20% Non-fibrous (other)	None Detected
495C-29A 031338224-0080	BUILDING A/B/ S - MASTIC UNDER WEB MATERIAL ROOF COVER	Black Non-Fibrous Homogeneous		85% Matrix 15% Non-fibrous (other)	None Detected
495C-29B 031338224-0081	BUILDING A/B/ S - MASTIC UNDER WEB MATERIAL ROOF COVER	Black Non-Fibrous Homogeneous		90% Matrix 10% Non-fibrous (other)	None Detected
495C-30A 031338224-0082	BUILDING A/ S - MULTI-LAYER ROOF COVER	Black Fibrous Heterogeneous	45% Cellulose	55% Non-fibrous (other)	None Detected
495C-30B 031338224-0083	BUILDING A/ S - MULTI-LAYER ROOF COVER	Black Fibrous Homogeneous	25% Cellulose	60% Matrix 15% Non-fibrous (other)	None Detected

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Initial report from 10/01/2013 15:40:19



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Project: CITY OF SPRINGFIELD/ 495 CHESTNUT ST. SPRINGFIELD, MA

## 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
495C-31A <i>031338224-0084</i>	BUILDING A/ S - MASTIC UNDER MULTI-LAYER ROOF COVER	Black Non-Fibrous Homogeneous		85% Matrix 15% Non-fibrous (other)	None Detected
495C-31B <i>031338224-0085</i>	BUILDING A/ S - MASTIC UNDER MULTI-LAYER ROOF COVER	Black Non-Fibrous Homogeneous		76% Matrix 24% Non-fibrous (other)	None Detected
495C-32A <i>031338224-0086</i>	BUILDING A/B/ S - CEMENTITIOUS BOARD	Gray Fibrous Homogeneous		45% Ca Carbonate 35% Non-fibrous (other)	20% Chrysotile
495C-32B <i>031338224-0087</i>	BUILDING A/B/ S - CEMENTITIOUS BOARD				Stop Positive (Not Analyzed)

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 Analysis Date: 10/6/2013  
 Collected: 9/30/2013

Project: **081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL**

## 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
495C-01A <i>031338641-0001</i>	ROOM 3L - PLASTER SKIM	Tan Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (other)	<b>None Detected</b>
495C-01B <i>031338641-0002</i>	ROOM 3D WEST WALL - PLASTER SKIM	Gray Non-Fibrous Homogeneous	3% Cellulose	7% Ca Carbonate 90% Non-fibrous (other)	<b>None Detected</b>
495C-01C <i>031338641-0003</i>	ROOM 3H - PLASTER SKIM	Yellow Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (other)	<b>None Detected</b>
495C-01D <i>031338641-0004</i>	NORTH WEST STAIRWELL - PLASTER SKIM	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (other)	<b>None Detected</b>
495C-01E <i>031338641-0005</i>	SOUTH WEST CORNER OF CAFETERIA - PLASTER SKIM	Gray Non-Fibrous Homogeneous		66% Ca Carbonate 34% Non-fibrous (other)	<b>None Detected</b>
495C-01F <i>031338641-0006</i>	HALL NORTH OF GYM 2 - PLASTER SKIM	Gray Non-Fibrous Homogeneous		57% Ca Carbonate 43% Non-fibrous (other)	<b>None Detected</b>
495C-01G <i>031338641-0007</i>	GYM 2 - PLASTER SKIM	Gray Non-Fibrous Homogeneous		61% Ca Carbonate 39% Non-fibrous (other)	<b>None Detected</b>
495C-02A <i>031338641-0008</i>	ROOM 3L - PLASTER BASE	Gray Non-Fibrous Homogeneous		55% Quartz 45% Non-fibrous (other)	<b>None Detected</b>

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Report Amended: 10/10/2013 13:13:00 Replaces the Initial Report 10/06/2013 20:39:32. Reason Code: Data Entry-Change to Appearance

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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
495C-02B <i>031338641-0009</i>	ROOM 3D EAST WALL - PLASTER BASE	Gray Non-Fibrous Homogeneous		62% Quartz 38% Non-fibrous (other)	None Detected
495C-02C <i>031338641-0010</i>	ROOM 3H - PLASTER BASE	Gray Non-Fibrous Homogeneous		53% Quartz 20% Ca Carbonate 27% Non-fibrous (other)	None Detected
495C-02D <i>031338641-0011</i>	NORTH WEST STAIRWELL - PLASTER BASE	Gray Non-Fibrous Homogeneous		52% Quartz 20% Ca Carbonate 28% Non-fibrous (other)	None Detected
495C-02E <i>031338641-0012</i>	SOUTH WEST CORNER OF CAFETERIA - PLASTER BASE	Gray Non-Fibrous Homogeneous	2% Glass	70% Quartz 10% Ca Carbonate 18% Non-fibrous (other)	None Detected
495C-02F <i>031338641-0013</i>	HALL NORTH OF GYM 2 - PLASTER BASE	Brown Non-Fibrous Homogeneous		55% Quartz 33% Ca Carbonate 12% Non-fibrous (other)	None Detected
495C-02G <i>031338641-0014</i>	GYM 2 - PLASTER BASE	Brown Non-Fibrous Homogeneous		70% Quartz 16% Ca Carbonate 14% Non-fibrous (other)	None Detected
495C-03A <i>031338641-0015</i>	SOUTH STAIRS WEST - WALL COVERING				Insufficient Material

Sample bag was empty

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Report Amended: 10/10/2013 13:13:00 Replaces the Inital Report 10/06/2013 20:39:32. Reason Code: Data Entry-Change to Appearance

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-03B <i>031338641-0016</i>	3RD FLOOR WEST WALL - WALL COVERING	Tan Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
495C-03C <i>031338641-0017</i>	2ND NORTH HALL - WALL COVERING		Insufficient Material		
Sample bag was empty					
495C-03D <i>031338641-0018</i>	2ND FLOOR CORRIDOR B - WALL COVERING	Tan Non-Fibrous Homogeneous		45% Gypsum 14% Ca Carbonate 41% Non-fibrous (other)	None Detected
495C-04A <i>031338641-0019</i>	3RD FLOOR SOUTH WEST WALL HALL - TERRAZZO FLOOR	Gray Non-Fibrous Homogeneous		65% Ca Carbonate 35% Non-fibrous (other)	None Detected
495C-04B <i>031338641-0020</i>	3RD FLOOR WEST HALL - TERRAZZO FLOOR	Gray/White Non-Fibrous Homogeneous		44% Quartz 25% Ca Carbonate 31% Non-fibrous (other)	None Detected
495C-05A <i>031338641-0021</i>	2ND FLOOR SOUTH WEST HALL - WINDOW GLAZING ON HALL SECURITY DOORS	Tan Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (other)	None Detected

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EMSL Order:	031338641
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CustomerPO:	11-81-0030
ProjectID:	

Attn: **Brian Williams**  
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Phone: (413) 781-0070  
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 Analysis Date: 10/6/2013  
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Project: **081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL**

## 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
495C-05B <i>031338641-0022</i>	2ND FLOOR NORTH HALL - WINDOW GLAZING ON HALL SECURITY DOORS	Tan Non-Fibrous Homogeneous		76% Ca Carbonate 24% Non-fibrous (other)	None Detected
495C-06A <i>031338641-0023</i>	3RD FLOOR NORTH HALL - WHITE BACKER MATERIAL BEHIND 6" CERAMIC COVEBASE	White Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
495C-06B <i>031338641-0024</i>	3RD FLOOR WEST HALL - WHITE BACKER MATERIAL BEHIND 6" CERAMIC COVEBASE	White Non-Fibrous Homogeneous		63% Ca Carbonate 37% Non-fibrous (other)	None Detected
495C-07A <i>031338641-0025</i>	3RD FLOOR EAST HALL - BLACK PAINT ON BRICK PERIMETER BRICK WALLS	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-07B <i>031338641-0026</i>	3RD FLOOR ROOM 3H - BLACK PAINT ON BRICK PERIMETER BRICK WALLS	Black Non-Fibrous Homogeneous		3% Quartz 97% Non-fibrous (other)	None Detected

Analyst(s) \_\_\_\_\_

Henry Akindunde (13)

Jon Williams (103)

Madisen Nnaoji (14)

Jessica Fearon-Brown (69)

Keri-Dean Scarlett (37)

James Hall, Laboratory Manager  
or other approved signatory

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Project: **081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL**

## 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
495C-07C <i>031338641-0027</i>	3RD FLOOR ROOM 3K - BLACK PAINT ON BRICK PERIMETER BRICK WALLS	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-07D <i>031338641-0028</i>	2 GYM - BLACK PAINT ON BRICK PERIMETER BRICK WALLS	Black Non-Fibrous Homogeneous		11% Quartz 89% Non-fibrous (other)	None Detected
495C-08A <i>031338641-0029</i>	3RD FLOOR NORTH HALL SHOWCASE - FIBERBOARD	Brown/Blue Fibrous Homogeneous	6% Glass	94% Non-fibrous (other)	None Detected
495C-08B <i>031338641-0030</i>	3RD FLOOR NORTH HALL SHOWCASE - FIBERBOARD	Brown Fibrous Homogeneous	10% Cellulose 15% Glass	75% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-09A <i>031338641-0031</i>	3RD FLOOR NORTH HALL SHOWCASE - MASTIC BEHIND FIBERBOARD	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-09B <i>031338641-0032</i>	3RD FLOOR NORTH HALL SHOWCASE - MASTIC BEHIND FIBERBOARD	Gray/White Non-Fibrous Homogeneous		22% Quartz 10% Ca Carbonate 68% Non-fibrous (other)	None Detected

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-10A <i>031338641-0033</i>	3RD FLOOR NORTH WEST HALL - YELLOW CARPET MASTIC	Yellow Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	None Detected
495C-10B <i>031338641-0034</i>	3RD FLOOR NORTH WEST HALL - YELLOW CARPET MASTIC	Yellow Non-Fibrous Homogeneous	7% Cellulose 2% Synthetic	16% Ca Carbonate 75% Non-fibrous (other)	None Detected
495C-11A <i>031338641-0035</i>	3RD FLOOR NORTH WEST HALL - SAND MATERIAL BEHIND PLASTER WALL	Brown Non-Fibrous Homogeneous		43% Quartz 6% Ca Carbonate 51% Non-fibrous (other)	None Detected
495C-11B <i>031338641-0036</i>	3RD FLOOR NORTH WEST HALL - SAND MATERIAL BEHIND PLASTER WALL	Gray Non-Fibrous Homogeneous		45% Quartz 15% Gypsum 40% Non-fibrous (other)	None Detected
495C-12A <i>031338641-0037</i>	3RD FLOOR NORTH WEST HALL - GLAZING ON HALL SECURITY DOORS AND WINDOW	Gray Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile

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 James Hall, Laboratory Manager  
 or other approved signatory

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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
495C-12B 031338641-0038	3RD FLOOR NORTH WEST HALL - GLAZING ON HALL SECURITY DOORS AND WINDOW				Stop Positive (Not Analyzed)
495C-13A 031338641-0039	3RD FLOOR NORTH WEST HALL - BACKER BOARD BEHIND DOOR PANELS	Brown/Gray Fibrous Homogeneous	20% Cellulose	61% Gypsum 19% Non-fibrous (other)	None Detected
495C-13B 031338641-0040	3RD FLOOR NORTH WEST HALL - BACKER BOARD BEHIND DOOR PANELS	Brown/Gray Fibrous Homogeneous	15% Cellulose 4% Glass	65% Gypsum 16% Non-fibrous (other)	None Detected
495C-14A 031338641-0041	ROOM 3D - CHALKBOARDS	Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
495C-14B 031338641-0042	ROOM 3P - CHALKBOARDS	Brown/Green Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
495C-15A 031338641-0043	3RD FLOOR ROOM 1 - SHEETROCK	Brown/Gray Fibrous Homogeneous	6% Cellulose	60% Gypsum 34% Non-fibrous (other)	None Detected
495C-15B 031338641-0044	3RD FLOOR ROOM 3E - SHEETROCK	Brown/Gray Fibrous Homogeneous	6% Cellulose	55% Gypsum 39% Non-fibrous (other)	None Detected

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-15C <i>031338641-0045</i>	2ND FLOOR ROOM 2C - SHEETROCK	Brown/Gray Fibrous Homogeneous	10% Cellulose	55% Gypsum 35% Non-fibrous (other)	None Detected
495C-15D <i>031338641-0046</i>	KITCHEN - SHEETROCK	Brown/Gray Fibrous Homogeneous	5% Cellulose	65% Gypsum 30% Non-fibrous (other)	None Detected
495C-16A <i>031338641-0047</i>	3RD FLOOR ROOM 1 - JOINT COMPOUND	Tan Fibrous Homogeneous	12% Glass	4% Mica 62% Ca Carbonate 22% Non-fibrous (other)	None Detected
495C-16B <i>031338641-0048</i>	3RD FLOOR ROOM 3E - JOINT COMPOUND	Tan/White Fibrous Homogeneous	10% Glass	4% Mica 62% Ca Carbonate 24% Non-fibrous (other)	None Detected
495C-16C <i>031338641-0049</i>	2ND FLOOR ROOM 2C - JOINT COMPOUND	Tan/White Fibrous Homogeneous	7% Glass	4% Mica 55% Ca Carbonate 34% Non-fibrous (other)	None Detected
495C-16D <i>031338641-0050</i>	KITCHEN - JOINT COMPOUND	Tan/White Non-Fibrous Homogeneous		6% Mica 55% Ca Carbonate 39% Non-fibrous (other)	None Detected
495C-17A <i>031338641-0051</i>	3RD FLOOR ROOM 1 - BACK UNDER CERAMIC WINDOW SILL	Gray Non-Fibrous Homogeneous		63% Gypsum 37% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos			Asbestos	
			%	Fibrous	%	Non-Fibrous	%
495C-17B <i>031338641-0052</i>	3RD FLOOR ROOM 3J - BACK UNDER CERAMIC WINDOW SILL	Gray Fibrous Homogeneous	3%	Glass	65%	Gypsum	None Detected
495C-18A <i>031338641-0053</i>	3RD FLOOR ROOM 1 - CERAMIC WINDOW SILL	Gray Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	None Detected
495C-18B <i>031338641-0054</i>	3RD FLOOR ROOM 3A - CERAMIC WINDOW SILL	Black Non-Fibrous Homogeneous			100%	Non-fibrous (other)	None Detected
495C-19A <i>031338641-0055</i>	3RD FLOOR ROOM 3A - 2X4 FISSURE CEILING TILE	Tan Fibrous Homogeneous	30%	Cellulose	40%	Min. Wool	30% Non-fibrous (other) None Detected
495C-19B <i>031338641-0056</i>	KITCHEN - 2X4 FISSURE CEILING TILE	Gray/Tan/Pink Fibrous Homogeneous	20%	Cellulose	45%	Min. Wool	15% Perlite 20% Non-fibrous (other) None Detected
495C-20A <i>031338641-0057</i>	3RD FLOOR ROOM 3A - MASTIC BEHIND COUNTERTOP COVEBASE	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-20B 031338641-0058	3RD FLOOR ROOM 3A - MASTIC BEHIND COUNTERTOP COVEBASE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-21A 031338641-0059	3RD FLOOR ROOM 3A - GRAY GROUT COUNTERTOP COVEBASE	Gray Non-Fibrous Homogeneous	3% Cellulose	65% Ca Carbonate 32% Non-fibrous (other)	None Detected
495C-21B 031338641-0060	3RD FLOOR ROOM 3A - GRAY GROUT BEHIND COUNTEROP BACKERBOARD	Gray Non-Fibrous Homogeneous		15% Quartz 25% Ca Carbonate 60% Non-fibrous (other)	None Detected
495C-22A 031338641-0061	3RD FLOOR ROOM 3A - SINK UNDERCOAT	Tan Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
495C-22B 031338641-0062	3RD FLOOR ROOM 3A - SINK UNDERCOAT				Stop Positive (Not Analyzed)
495C-23A 031338641-0063	3RD FLOOR ROOM 3A - BOTTOM FLOOR PAPER	Gray Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected
495C-23B 031338641-0064	3RD FLOOR ROOM 3A - BOTTOM FLOOR PAPER	Gray Fibrous Homogeneous	20% Synthetic 45% Cellulose	35% Non-fibrous (other)	None Detected

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 Received: 10/02/13 10:29 AM  
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 Collected: 9/30/2013

Project: **081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL**

### 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
495C-24A <i>031338641-0065</i>	3RD FLOOR ROOM 3A - BLACK FLOORING WITH WEB BACKER	Brown/Yellow Fibrous Homogeneous	15%	Synthetic	85% Non-fibrous (other) <b>None Detected</b>
495C-24B <i>031338641-0066</i>	3RD FLOOR ROOM 3B - BLACK FLOORING WITH WEB BACKER	Gray Fibrous Homogeneous	20%	Synthetic	80% Non-fibrous (other) <b>None Detected</b>
495C-25A <i>031338641-0067</i>	3RD FLOOR ROOM 3A - GRAY FELT PAPER UNDER FLOORING	Gray Fibrous Homogeneous	60% 9%	Cellulose Synthetic	31% Non-fibrous (other) <b>None Detected</b>
495C-25B <i>031338641-0068</i>	3RD FLOOR ROOM 3B - GRAY FELT PAPER UNDER FLOORING	Black Fibrous Homogeneous	70% 20%	Cellulose Synthetic	10% Non-fibrous (other) <b>None Detected</b>
495C-26A <i>031338641-0069</i>	3RD FLOOR ROOM 3B - 1X1 BROWN W/ DARK STREAK FLOOR TILE	Brown Non-Fibrous Homogeneous			20% Ca Carbonate 80% Non-fibrous (other) <b>None Detected</b>
TEM recommended					
495C-26B <i>031338641-0070</i>	3RD FLOOR ROOM 3C - 1X1 BROWN W/ DARK STREAK FLOOR TILE	Tan Non-Fibrous Homogeneous			35% Ca Carbonate 65% Non-fibrous (other) <b>None Detected</b>

Analyst(s) \_\_\_\_\_

*Henry Akintunde (13)*      *Jon Williams (103)*      *Madisen Nnaoji (14)*        
*Jessica Fearon-Brown (69)*      *Keri-Dean Scarlett (37)*      James Hall, Laboratory Manager  
 or other approved signatory

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-27A <i>031338641-0071</i>	3RD FLOOR ROOM 3B - MASTIC 1X1 BROWN W/ DARK STREAKS FLOOR TILE	Black Non-Fibrous Homogeneous	6% Cellulose	94% Non-fibrous (other)	None Detected
495C-27B <i>031338641-0072</i>	3RD FLOOR ROOM 3C - MASTIC 1X1 BROWN W/ DARK STREAKS FLOOR TILE	Black Non-Fibrous Heterogeneous		80% Matrix 20% Non-fibrous (other)	None Detected
495C-28A <i>031338641-0073</i>	3RD FLOOR ROOM 3B - 1X1 TAN W/ WHITE AND BROWN STREAKS FLOOR TILE	Gray/Beige Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (other)	None Detected
TEM recommended					
495C-28B <i>031338641-0074</i>	3RD FLOOR ROOM 3B - 1X1 TAN W/ WHITE AND BROWN STREAKS FLOOR TILE	Gray/Tan Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
TEM recommended					
495C-28C <i>031338641-0075</i>	2ND FLOOR 2C - 1X1 TAN W/ WHITE AND BROWN STREAKS FLOOR TILE	Gray Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-29A <i>031338641-0076</i>	3RD FLOOR ROOM 3B - MASTIC 1X1 TAN W/ WHITE AND BROWN STREAKS FLOOR TILE	Brown/Black Non-Fibrous Heterogeneous	4% Cellulose	96% Non-fibrous (other)	None Detected
495C-29B <i>031338641-0077</i>	3RD FLOOR ROOM 3B - MASTIC 1X1 TAN W/ WHITE AND BROWN STREAKS FLOOR TILE	Brown/Black Non-Fibrous Heterogeneous	3% Cellulose	8% Ca Carbonate 89% Non-fibrous (other)	None Detected
495C-29C <i>031338641-0078</i>	2ND FLOOR 2C - MASTIC 1X1 TAN W/ WHITE AND BROWN STREAKS FLOOR TILE	Yellow Non-Fibrous Heterogeneous		5% Quartz 65% Matrix 30% Non-fibrous (other)	None Detected
495C-30A <i>031338641-0079</i>	3RD FLOOR ROOM 3B - 1X1 WHITE S.A. FLOOR TILE	Tan/White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
495C-30B <i>031338641-0080</i>	3RD FLOOR ROOM 3B - 1X1 WHITE S.A. FLOOR TILE	Tan Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (other)	None Detected

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-31A <i>031338641-0081</i>	3RD FLOOR ROOM 3B - MASTIC 1X1 WHITE S.A. FLOOR TILE	Black Non-Fibrous Homogeneous	12% Cellulose	88% Non-fibrous (other)	None Detected
495C-31B <i>031338641-0082</i>	3RD FLOOR ROOM 3B - MASTIC 1X1 WHITE S.A. FLOOR TILE	Black Non-Fibrous Homogeneous	6% Cellulose	10% Quartz 84% Non-fibrous (other)	None Detected
495C-32A <i>031338641-0083</i>	3RD FLOOR ROOM 3A - WHITE FLOOR PAPER UNDER FELT	Gray/White Fibrous Homogeneous	15% Cellulose	5% Non-fibrous (other)	80% Chrysotile
495C-32B <i>031338641-0084</i>	3RD FLOOR ROOM 3B - WHITE FLOOR PAPER UNDER FELT				Stop Positive (Not Analyzed)
495C-33A <i>031338641-0085</i>	3RD FLOOR ROOM 3B - WIRE COATING	Brown/Black Fibrous Heterogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
495C-33B <i>031338641-0086</i>	3RD FLOOR ROOM 3B - WIRE COATING	Gray/Black Non-Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-34A <i>031338641-0087</i>	3RD FLOOR ROOM 3D - 2X2 SECURITY WINDOW GLAZING	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-34B <i>031338641-0088</i>	3RD FLOOR ROOM 3E - 2X2 SECURITY WINDOW GLAZING	Black Non-Fibrous Heterogeneous		30% Ca Carbonate 70% Non-fibrous (other)	None Detected
495C-35A <i>031338641-0089</i>	3RD FLOOR ROOM 3E - 9X9 WHITE W/ GREEN STRIPES FLOOR TILE	White/Green Non-Fibrous Homogeneous		10% Ca Carbonate 88% Non-fibrous (other)	2% Chrysotile
495C-35B <i>031338641-0090</i>	3RD FLOOR ROOM 3F - 9X9 WHITE W/ GREEN STRIPES FLOOR TILE				Stop Positive (Not Analyzed)
495C-35C <i>031338641-0091</i>	2ND FLOOR ROOM 2D - 9X9 WHITE W/ GREEN STRIPES FLOOR TILE				Stop Positive (Not Analyzed)

Analyst(s)


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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-36A <i>031338641-0092</i>	3RD FLOOR ROOM 3E - MASTIC 9X9 WHITE W/ GREEN STRIPES FLOOR TILE	Black Non-Fibrous Homogeneous		96% Non-fibrous (other)	4% Chrysotile
495C-36B <i>031338641-0093</i>	3RD FLOOR ROOM 3F - MASTIC 9X9 WHITE W/ GREEN STRIPES FLOOR TILE				Stop Positive (Not Analyzed)
495C-36C <i>031338641-0094</i>	2ND FLOOR ROOM 2D - MASTIC 9X9 WHITE W/ GREEN STRIPES FLOOR TILE				Stop Positive (Not Analyzed)
495C-37A <i>031338641-0095</i>	3RD FLOOR ROOM 3F - 4" BROWN COVEBASE	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-37B <i>031338641-0096</i>	2ND FLOOR ROOM 2D-B - 4" BROWN COVEBASE	Brown Non-Fibrous Heterogeneous		10% Ca Carbonate 90% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-38A <i>031338641-0097</i>	3RD FLOOR ROOM 3F - MASTIC 4" BROWN COVEBASE	Tan/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-38B <i>031338641-0098</i>	2ND FLOOR ROOM 2D-B - MASTIC 4" BROWN COVEBASE	Tan Non-Fibrous Homogeneous		60% Matrix 40% Non-fibrous (other)	None Detected
495C-39A <i>031338641-0099</i>	3RD FLOOR ROOM 3F - AIR VENT GASKET	Brown/Black Fibrous Homogeneous	82% Synthetic	18% Non-fibrous (other)	None Detected
495C-39B <i>031338641-0100</i>	3RD FLOOR ROOM 3G - AIR VENT GASKET	Black Fibrous Homogeneous	90% Synthetic	10% Non-fibrous (other)	None Detected
495C-40A <i>031338641-0101</i>	3RD FLOOR ROOM 3C - GASKET ON INTERIOR WALL DAMPER	Brown/Black Fibrous Homogeneous	10% Cellulose 83% Synthetic	7% Non-fibrous (other)	None Detected
495C-40B <i>031338641-0102</i>	3RD FLOOR ROOM 3G - GASKET ON INTERIOR WALL DAMPER	Black Fibrous Homogeneous	90% Synthetic	10% Non-fibrous (other)	None Detected
495C-41A <i>031338641-0103</i>	3RD FLOOR ROOM 3F - FIBERBOARD CLOSET CEILING	Brown/Tan Fibrous Heterogeneous	92% Cellulose	8% Non-fibrous (other)	None Detected

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			% Fibrous	% Non-Fibrous	% Type
495C-41B <i>031338641-0104</i>	3RD FLOOR ROOM 3G - FIBERBOARD CLOSET CEILING	Brown/Tan Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
495C-41C <i>031338641-0105</i>	2ND FLOOR ROOM 2D - FIBERBOARD CLOSET CEILING	Brown/Red Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
495C-42A <i>031338641-0106</i>	3RD FLOOR ROOM 3K - WIRING ON HEAT REGISTER	Brown/Black Fibrous Heterogeneous	30% Cellulose	58% Non-fibrous (other)	12% Chrysotile
Inseparable wire bundles composited					
495C-42B <i>031338641-0107</i>	3RD FLOOR ROOM 3K - WIRING ON HEAT REGISTER				Stop Positive (Not Analyzed)
495C-43A <i>031338641-0108</i>	3RD FLOOR GIRLS ROOM - SMOOTH TEXTURE COAT	White/Cream Non-Fibrous Heterogeneous		55% Ca Carbonate 45% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-43B <i>031338641-0109</i>	3RD FLOOR GIRLS ROOM - SMOOTH TEXTURE COAT	White/Cream Non-Fibrous Heterogeneous		50% Ca Carbonate 50% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					

Analyst(s) \_\_\_\_\_

Henry Akitunde (13)

Jon Williams (103)

Madisen Nnaoji (14)

Jessica Fearon-Brown (69)

Keri-Dean Scarlett (37)

James Hall, Laboratory Manager  
or other approved signatory

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Project: 081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL

## 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
495C-43C <i>031338641-0110</i>	3RD FLOOR GIRLS ROOM - SMOOTH TEXTURE COAT	Gray/White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (other)	None Detected
495C-44A <i>031338641-0111</i>	3RD FLOOR GIRLS ROOM - FLEX CONNECTOR	Tan/Black Fibrous Heterogeneous	35% Synthetic	65% Non-fibrous (other)	None Detected
495C-44B <i>031338641-0112</i>	3RD FLOOR GIRLS ROOM - FLEX CONNECTOR	Black Non-Fibrous Homogeneous	10% Synthetic	90% Non-fibrous (other)	None Detected
495C-45A-Skim Coat <i>031338641-0113</i>	3RD FLOOR GIRLS ROOM - 6X6 SKIM COAT ON WALL	Tan/White Non-Fibrous Heterogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-45A-Rough Coat <i>031338641-0113A</i>	3RD FLOOR GIRLS ROOM - 6X6 SKIM COAT ON WALL	Brown Non-Fibrous Homogeneous	3% Hair	56% Quartz 2% Mica 39% Non-fibrous (other)	None Detected
495C-45B-Skim Coat <i>031338641-0114</i>	3RD FLOOR GIRLS ROOM - 6X6 SKIM COAT ON WALL	Tan/White Non-Fibrous Heterogeneous		55% Ca Carbonate 45% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-45B-Rough Coat <i>031338641-0114A</i>	3RD FLOOR GIRLS ROOM - 6X6 SKIM COAT ON WALL	Brown Non-Fibrous Homogeneous	3% Hair	58% Quartz 2% Mica 37% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-45C-Skim Coat <i>031338641-0115</i>	3RD FLOOR GIRLS ROOM - 6X6 SKIM COAT ON WALL	White Non-Fibrous Heterogeneous		45% Ca Carbonate 55% Non-fibrous (other)	None Detected
495C-45C-Rough Coat <i>031338641-0115A</i>	3RD FLOOR GIRLS ROOM - 6X6 SKIM COAT ON WALL	Tan Non-Fibrous Homogeneous		58% Quartz 25% Gypsum 17% Non-fibrous (other)	None Detected
495C-46A <i>031338641-0116</i>	3RD FLOOR GIRLS ROOM - 4" WHITE WALL TILE GROUT	White Non-Fibrous Homogeneous		70% Ca Carbonate 30% Non-fibrous (other)	None Detected
495C-46B <i>031338641-0117</i>	3RD FLOOR GIRLS ROOM - 4" WHITE WALL TILE GROUT	White Non-Fibrous Heterogeneous		55% Ca Carbonate 45% Non-fibrous (other)	None Detected
495C-47A <i>031338641-0118</i>	3RD FLOOR GIRLS ROOM - 4" WHITE WALL TILE MASTIC	Gray/Tan/Green Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-47B <i>031338641-0119</i>	3RD FLOOR GIRLS ROOM - 4" WHITE WALL TILE MASTIC	White Non-Fibrous Heterogeneous		40% Gypsum 60% Non-fibrous (other)	None Detected
495C-48A <i>031338641-0120</i>	3RD FLOOR GIRLS ROOM - GROUT ON INLAID MARBLE FLOOR	Brown Non-Fibrous Homogeneous	4% Cellulose	55% Quartz 15% Ca Carbonate 26% Non-fibrous (other)	None Detected

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-48B <i>031338641-0121</i>	3RD FLOOR GIRLS ROOM - GROUT ON INLAID MARBLE FLOOR	Gray/Tan Non-Fibrous Homogeneous		45% Quartz 15% Ca Carbonate 40% Non-fibrous (other)	<b>None Detected</b>
495C-49A <i>031338641-0122</i>	3RD FLOOR GIRLS ROOM - CAULKING ON 4X4 WHITE WALL TILE	White/Green Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	<b>None Detected</b>
Inseparable paint / coating layer included in analysis					
495C-49B <i>031338641-0123</i>	3RD FLOOR GIRLS ROOM - CAULKING ON 4X4 WHITE WALL TILE	White Non-Fibrous Heterogeneous		30% Ca Carbonate 70% Non-fibrous (other)	<b>None Detected</b>
495C-50A <i>031338641-0124</i>	ATTIC - ATTIC DEBRIS FLOOR PAPER	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	<b>None Detected</b>
495C-50B <i>031338641-0125</i>	ATTIC - ATTIC DEBRIS FLOOR PAPER	Black Fibrous Homogeneous	70% Cellulose	15% Ca Carbonate 15% Non-fibrous (other)	<b>None Detected</b>
495C-51A <i>031338641-0126</i>	3RD FLOOR CORRIDOR D - RADIATOR COVER	Black Fibrous Homogeneous	95% Synthetic	5% Non-fibrous (other)	<b>None Detected</b>
495C-51B <i>031338641-0127</i>	3RD FLOOR CORRIDOR D - RADIATOR COVER	Black Non-Fibrous Homogeneous	90% Synthetic	10% Non-fibrous (other)	<b>None Detected</b>

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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
495C-52A <i>031338641-0128</i>	3RD FLOOR CORRIDOR D - MASTIC UNDER RADIATOR COVER	Brown Non-Fibrous Homogeneous	15% Synthetic	85% Non-fibrous (other)	None Detected
495C-52B <i>031338641-0129</i>	3RD FLOOR CORRIDOR D - MASTIC UNDER RADIATOR COVER	Brown Non-Fibrous Homogeneous	5% Synthetic	95% Non-fibrous (other)	None Detected
495C-53A <i>031338641-0130</i>	3RD FLOOR 3P - 1X1 CORK BOARD FLOOR TILE	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-53B <i>031338641-0131</i>	3RD FLOOR 3P - 1X1 CORK BOARD FLOOR TILE	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
495C-55A <i>031338641-0132</i>	2 GYM - BROWN PAPER UNDER FLOOR	Brown/Tan Fibrous Homogeneous	94% Cellulose	6% Non-fibrous (other)	None Detected
495C-55B <i>031338641-0133</i>	2 GYM - BROWN PAPER UNDER FLOOR	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected
495C-55C <i>031338641-0134</i>	2 GYM - BROWN PAPER UNDER FLOOR	Brown/Tan Fibrous Homogeneous	80% Cellulose	17% Non-fibrous (other)	3% Chrysotile

Analyst(s)

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-56A <i>031338641-0135</i>	2 GYM - SILVER DOOR CAULK	Silver/Green Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
495C-56B <i>031338641-0136</i>	2 GYM - SILVER DOOR CAULK	Gray Non-Fibrous Heterogeneous		55% Matrix 45% Non-fibrous (other)	None Detected
495C-57A <i>031338641-0137</i>	2ND FLOOR STORAGE 1 - BROWN PAPER UNDER FLOOR 2	Brown/Tan Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected
495C-57B <i>031338641-0138</i>	2ND FLOOR ROOM 2C - BROWN PAPER UNDER FLOOR 2	Brown/Tan Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (other)	None Detected
495C-57C <i>031338641-0139</i>	2ND FLOOR ROOM 2E - BROWN PAPER UNDER FLOOR 2	Tan/Black Fibrous Homogeneous	10% Glass 80% Cellulose	10% Non-fibrous (other)	None Detected
495C-58A <i>031338641-0140</i>	2ND FLOOR ROOM 2A - WHITE FLACKING CEILING PAINT	Tan/White Non-Fibrous Heterogeneous	<1% Fibrous (other)	40% Ca Carbonate 60% Non-fibrous (other)	None Detected
495C-58B <i>031338641-0141</i>	2ND FLOOR ROOM B - WHITE FLACKING CEILING PAINT	Cream Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-59A <i>031338641-0142</i>	2ND FLOOR ROOM B - FIREBRICK	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-59B <i>031338641-0143</i>	BOILER ROOM - FIREBRICK	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-60A <i>031338641-0144</i>	2ND FLOOR ROOM 2D - 1X1 BEIGE W/ BROWN STREAKS FLOOR TILE	Tan/White Non-Fibrous Homogeneous		15% Ca Carbonate 83% Non-fibrous (other)	2% <b>Chrysotile</b>
495C-60B <i>031338641-0145</i>	2ND FLOOR ROOM 2D - 1X1 BEIGE W/ BROWN STREAKS FLOOR TILE				<b>Stop Positive (Not Analyzed)</b>
495C-61A <i>031338641-0146</i>	2ND FLOOR ROOM 2D - MASTIC 1X1 BEIGE W/ BROWN STREAKS FLOOR TILE	Black Non-Fibrous Homogeneous	5% Cellulose	89% Non-fibrous (other)	6% <b>Chrysotile</b>

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-61B <i>031338641-0147</i>	2ND FLOOR ROOM 2D - MASTIC 1X1 BEIGE W/ BROWN STREAKS FLOOR TILE				<b>Stop Positive (Not Analyzed)</b>
495C-62A <i>031338641-0148</i>	2ND FLOOR ROOM 2D-B - 1X1 BEIGE FLOOR TILE	Gray/Tan Non-Fibrous Homogeneous	3% Cellulose	15% Ca Carbonate 82% Non-fibrous (other)	<b>None Detected</b>
495C-62B <i>031338641-0149</i>	2ND FLOOR ROOM 2D-B - 1X1 BEIGE FLOOR TILE	Gray Non-Fibrous Homogeneous		35% Ca Carbonate 65% Non-fibrous (other)	<b>None Detected</b>
495C-63A <i>031338641-0150</i>	2ND FLOOR ROOM 2D-B - MASTIC UNDER 1X1 BEIGE FLOOR TILE	Black Non-Fibrous Homogeneous	6% Cellulose	94% Non-fibrous (other)	<b>None Detected</b>
495C-63B <i>031338641-0151</i>	2ND FLOOR ROOM 2D-B - MASTIC UNDER 1X1 BEIGE FLOOR TILE	Black Non-Fibrous Homogeneous		65% Matrix 35% Non-fibrous (other)	<b>None Detected</b>
495C-64A <i>031338641-0152</i>	2ND FLOOR ROOM 2D-B - 9X9 GRAY W/ BLACK STREAKS FLOOR TILE	Gray/Tan Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (other)	<b>None Detected</b>

Analyst(s)

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Jon Williams (103)

Madisen Nnaoji (14)

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Project: **081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL**

### 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
495C-64B <i>031338641-0153</i>	2ND FLOOR ROOM 2D-B - 9X9 GRAY W/ BLACK STREAKS FLOOR TILE	Gray Non-Fibrous Heterogeneous		40% Ca Carbonate 60% Non-fibrous (other)	None Detected
495C-65A <i>031338641-0154</i>	2ND FLOOR ROOM 2D-B - MASTIC 8X8 GRAY W/ BLACK STREAKS FLOOR TILE	Black Non-Fibrous Homogeneous	12% Cellulose	88% Non-fibrous (other)	None Detected
495C-65B <i>031338641-0155</i>	2ND FLOOR ROOM 2D-B - MASTIC 8X8 GRAY W/ BLACK STREAKS FLOOR TILE	Black Non-Fibrous Homogeneous	6% Cellulose	55% Matrix 39% Non-fibrous (other)	None Detected
495C-66A <i>031338641-0156</i>	2ND FLOOR ROOM 2E - 1X1 RUST MODEL FLOOR TILE	Rust Non-Fibrous Homogeneous		22% Ca Carbonate 78% Non-fibrous (other)	None Detected
495C-66B <i>031338641-0157</i>	2ND FLOOR ROOM 2E - 1X1 RUST MODEL FLOOR TILE	Red Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (other)	None Detected
495C-67A <i>031338641-0158</i>	2ND FLOOR ROOM 2E - MASTIC 1X1 RUST MODEL FLOOR TILE	Yellow Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-67B <i>031338641-0159</i>	2ND FLOOR ROOM 2E - MASTIC 1X1 RUST MODEL FLOOR TILE	Yellow Non-Fibrous Heterogeneous		70% Matrix 30% Non-fibrous (other)	<b>None Detected</b>
495C-68A <i>031338641-0160</i>	KITCHEN - GLUE DAUB ON PLASTER WALL	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
495C-68B <i>031338641-0161</i>	KITCHEN - GLUE DAUB ON PLASTER WALL	Brown/Black Non-Fibrous Homogeneous		5% Mica 65% Matrix 30% Non-fibrous (other)	<b>None Detected</b>
495C-69A <i>031338641-0162</i>	KITCHEN - YELLOW MASTIC ON DUCT INSULATION	Brown/Yellow Fibrous Heterogeneous	15% Cellulose 30% Glass	55% Non-fibrous (other)	<b>None Detected</b>
495C-69B <i>031338641-0163</i>	KITCHEN - YELLOW MASTIC ON DUCT INSULATION	Silver/Yellow Fibrous Homogeneous	30% Glass 15% Cellulose	55% Non-fibrous (other)	<b>None Detected</b>
495C-70A <i>031338641-0164</i>	KITCHEN - 6X6 BROWN CERAMIC FLOOR TILE GROUT	Gray/Black Non-Fibrous Homogeneous		50% Quartz 50% Non-fibrous (other)	<b>None Detected</b>

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-70B <i>031338641-0165</i>	KITCHEN - 6X6 BROWN CERAMIC FLOOR TILE GROUT	Brown/Black Non-Fibrous Heterogeneous		45% Quartz 55% Non-fibrous (other)	None Detected
495C-71A <i>031338641-0166</i>	KITCHEN - 6X6 BROWN CERAMIC FLOOR TILE MASTIC	Red Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (other)	None Detected
495C-71B <i>031338641-0167</i>	KITCHEN - 6X6 BROWN CERAMIC FLOOR TILE MASTIC	Red Non-Fibrous Heterogeneous		25% Quartz 75% Non-fibrous (other)	None Detected
495C-72A <i>031338641-0168</i>	KITCHEN - SKIM ON CONCRETE WALL	White/Yellow Non-Fibrous Heterogeneous		55% Ca Carbonate 45% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-72B <i>031338641-0169</i>	KITCHEN - SKIM ON CONCRETE WALL	White/Yellow Non-Fibrous Heterogeneous		50% Ca Carbonate 50% Non-fibrous (other)	None Detected
495C-72C-Skim Coat <i>031338641-0170</i>	KITCHEN - SKIM ON CONCRETE WALL	White Non-Fibrous Heterogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
495C-72C-Rough Coat <i>031338641-0170A</i>	KITCHEN - SKIM ON CONCRETE WALL	Gray Non-Fibrous Homogeneous		45% Quartz 25% Ca Carbonate 30% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-73A <i>031338641-0171</i>	KITCHEN - PIPE FITTINGS	Gray Fibrous Homogeneous	3% Cellulose 22% Min. Wool	30% Ca Carbonate 45% Non-fibrous (other)	None Detected
495C-73B <i>031338641-0172</i>	BOILER ROOM - PIPE FITTINGS	Gray/Tan Fibrous Heterogeneous	20% Cellulose 18% Min. Wool	15% Ca Carbonate 47% Non-fibrous (other)	None Detected
495C-73C <i>031338641-0173</i>	CRAWLSPACE - PIPE FITTINGS	Gray Non-Fibrous Homogeneous	35% Min. Wool	50% Gypsum 15% Non-fibrous (other)	None Detected
495C-74A <i>031338641-0174</i>	KITCHEN - SILVER COAT ON COLUMN	Gray/Tan/White Non-Fibrous Heterogeneous	2% Hair	50% Quartz 15% Ca Carbonate 33% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-74B <i>031338641-0175</i>	KITCHEN - SILVER COAT ON COLUMN	Gray/Tan/White Non-Fibrous Heterogeneous	3% Hair	45% Quartz 15% Ca Carbonate 37% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-75A <i>031338641-0176</i>	KITCHEN LADIES LOCKER - 4" BLACK COVEBASE	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-75B <i>031338641-0177</i>	KITCHEN LADIES LOCKER - 4" BLACK COVEBASE	Black Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-76A <i>031338641-0178</i>	KITCHEN LADIES LOCKER - MASTIC 4" BLACK COVEBASE	Brown/Yellow Non-Fibrous Heterogeneous	4% Cellulose	96% Non-fibrous (other)	None Detected
495C-76B <i>031338641-0179</i>	KITCHEN LADIES LOCKER - MASTIC 4" BLACK COVEBASE	Tan Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (other)	None Detected
495C-77A <i>031338641-0180</i>	DOOR FREEZER - YELLOW MASTIC ON FREEZER	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-77B <i>031338641-0181</i>	DOOR FREEZER - YELLOW MASTIC ON FREEZER	Yellow Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (other)	None Detected
495C-78A <i>031338641-0182</i>	2ND FLOOR ROOM 2F - BROWN DUCT SEALANT	Gray/Tan Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-78B <i>031338641-0183</i>	2ND FLOOR ROOM 2F - BROWN DUCT SEALANT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-79A <i>031338641-0184</i>	2ND FLOOR ROOM STORAGE 2 - TRANSITE	Gray/Tan/Green Non-Fibrous Heterogeneous		45% Ca Carbonate 30% Non-fibrous (other)	25% Chrysotile
Inseparable paint / coating layer included in analysis					
495C-79B <i>031338641-0185</i>	2ND FLOOR ROOM STORAGE 2 - TRANSITE				<b>Stop Positive (Not Analyzed)</b>
495C-80A <i>031338641-0186</i>	1 GYM - RED PAPER UNDER 2 GYM	Tan/Pink Fibrous Homogeneous	97% Cellulose	3% Non-fibrous (other)	<b>None Detected</b>
495C-80B <i>031338641-0187</i>	1 GYM - RED PAPER UNDER 2 GYM	Tan/Red Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	<b>None Detected</b>
495C-81A <i>031338641-0188</i>	1 GYM - TSI PIPE INSULATION	Brown/Gray/White Fibrous Heterogeneous	35% Cellulose	22% Ca Carbonate 23% Non-fibrous (other)	20% Chrysotile
495C-81B <i>031338641-0189</i>	1 GYM - TSI PIPE INSULATION				<b>Stop Positive (Not Analyzed)</b>
495C-81C <i>031338641-0190</i>	CRAWLSPACE - TSI PIPE INSULATION				<b>Stop Positive (Not Analyzed)</b>

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-82A <i>031338641-0191</i>	1 GYM - SKIM ON BLOCK WINDOW OPENING	Gray/Tan Non-Fibrous Heterogeneous		30% Gypsum 23% Perlite 47% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-82B <i>031338641-0192</i>	1 GYM - SKIM ON BLOCK WINDOW OPENING	Gray/Tan Non-Fibrous Heterogeneous		30% Gypsum 20% Perlite 50% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-82C <i>031338641-0193</i>	1 GYM - SKIM ON BLOCK WINDOW OPENING	Gray Non-Fibrous Homogeneous		55% Gypsum 8% Perlite 37% Non-fibrous (other)	None Detected
495C-83A <i>031338641-0194</i>	BOILER ROOM - SKIM ON VALVE BREECHING	White/Yellow Fibrous Heterogeneous	70% Glass	30% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
495C-83B <i>031338641-0195</i>	BOILER ROOM - SKIM ON VALVE BREECHING	White/Yellow Fibrous Heterogeneous	80% Glass	20% Non-fibrous (other)	None Detected
495C-83C <i>031338641-0196</i>	BOILER ROOM - SKIM ON VALVE BREECHING	Yellow Fibrous Homogeneous	85% Glass	15% Non-fibrous (other)	None Detected
495C-85A <i>031338641-0197</i>	BOILER ROOM - BOILER RIB GASKET MATERIAL	Tan/White Fibrous Homogeneous	98% Glass	2% Non-fibrous (other)	None Detected

Analyst(s)

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Project: **081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL**

## 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
495C-85B <i>031338641-0198</i>	BOILER ROOM - BOILER RIB GASKET MATERIAL	White Fibrous Homogeneous	90%	Glass	10% Non-fibrous (other) <b>None Detected</b>
495C-86A <i>031338641-0199</i>	BOILER ROOM - TROWLED ON BOILER RIB INSULATION	Tan Fibrous Homogeneous	45%	Glass	55% Non-fibrous (other) <b>None Detected</b>
495C-86B <i>031338641-0200</i>	BOILER ROOM - TROWLED ON BOILER RIB INSULATION	Brown/Tan Fibrous Homogeneous	60%	Glass	40% Non-fibrous (other) <b>None Detected</b>
495C-86C <i>031338641-0201</i>	BOILER ROOM - TROWLED ON BOILER RIB INSULATION	Gray Non-Fibrous Heterogeneous			50% Gypsum 35% Ca Carbonate 15% Non-fibrous (other) <b>None Detected</b>
495C-87A <i>031338641-0202</i>	BOILER ROOM - BOILER DUCT BREECHING	Tan Fibrous Homogeneous	20%	Cellulose 20% Hair	40% Ca Carbonate 20% Non-fibrous (other) <b>None Detected</b>
495C-87B <i>031338641-0203</i>	BOILER ROOM - BOILER DUCT BREECHING	Brown/Gray Fibrous Heterogeneous	24%	Cellulose 24% Glass	30% Ca Carbonate 22% Non-fibrous (other) <b>None Detected</b>
495C-87C <i>031338641-0204</i>	BOILER ROOM - BOILER DUCT BREECHING	Gray/Yellow Non-Fibrous Homogeneous	30%	Min. Wool	40% Ca Carbonate 30% Non-fibrous (other) <b>None Detected</b>

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-88A <i>031338641-0205</i>	CRAWLSPACE - DEBRI ON CRAWLSPACE FLOOR	Gray Fibrous Homogeneous	25% Cellulose	10% Non-fibrous (other)	65% Chrysotile
495C-88B <i>031338641-0206</i>	CRAWLSPACE - DEBRI ON CRAWLSPACE FLOOR				<b>Stop Positive (Not Analyzed)</b>
495C-88C <i>031338641-0207</i>	CRAWLSPACE - DEBRI ON CRAWLSPACE FLOOR				<b>Stop Positive (Not Analyzed)</b>
495C-89A <i>031338641-0208</i>	CRAWLSPACE NORTH WALL - BROWN MASTIC ON BRICK WALL	Brown Non-Fibrous Homogeneous		55% Quartz 45% Non-fibrous (other)	<b>None Detected</b>
495C-89B <i>031338641-0209</i>	CRAWLSPACE NORTH WALL - BROWN MASTIC ON BRICK WALL	Brown Non-Fibrous Heterogeneous		60% Quartz 40% Non-fibrous (other)	<b>None Detected</b>
495C-90A <i>031338641-0210</i>	EXTERIOR A SECTION - BLACK MATERIAL ON MORTAR BEHIND YELLOW BRICK	Gray/Tan Non-Fibrous Homogeneous		55% Quartz 20% Ca Carbonate 25% Non-fibrous (other)	<b>None Detected</b>

No "black material" observed. Cement material only submitted.

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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
495C-90B <i>031338641-0211</i>	EXTERIOR A SECTION - BLACK MATERIAL ON MORTAR BEHIND YELLOW BRICK	Gray/Tan Non-Fibrous Heterogeneous		55% Quartz 20% Ca Carbonate 25% Non-fibrous (other)	None Detected
495C-91A <i>031338641-0212</i>	EXTERIOR B SECTION SOUTH SIDE ANNEX - GRAY CAULK ON WINDOW SILLS	Brown/Gray Non-Fibrous Homogeneous	10% Cellulose	20% Ca Carbonate 64% Non-fibrous (other)	6% Chrysotile
495C-91B <i>031338641-0213</i>	EXTERIOR B SECTION SOUTH SIDE ANNEX - GRAY CAULK ON WINDOW SILLS				Stop Positive (Not Analyzed)
495C-92A <i>031338641-0214</i>	EXTERIOR B SECTION SOUTH SIDE ANNEX - WINDOW GLAZING ON 7X12 WINDOWS	Gray Non-Fibrous Homogeneous		45% Ca Carbonate 51% Non-fibrous (other)	4% Chrysotile

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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
495C-92B 031338641-0215	EXTERIOR B SECTION SOUTH SIDE ANNEX - WINDOW GLAZING ON 7X12 WINDOWS				Stop Positive (Not Analyzed)
495C-93A 031338641-0216	EXTERIOR B SECTION SOUTH SIDE ANNEX - 2X3 EXTERIOR VENT FRAME CAULK	Brown/Black Non-Fibrous Homogeneous		25% Ca Carbonate 72% Non-fibrous (other)	3% Anthophyllite
495C-93B 031338641-0217	EXTERIOR B SECTION SOUTH SIDE ANNEX - 2X3 EXTERIOR VENT FRAME CAULK				Stop Positive (Not Analyzed)
495C-94A 031338641-0218	EXTERIOR B SECTION SOUTH SIDE ANNEX - DOOR FRAME CAULK	Brown/Gray Non-Fibrous Homogeneous		15% Ca Carbonate 82% Non-fibrous (other)	3% Chrysotile
495C-94B 031338641-0219	EXTERIOR B SECTION SOUTH SIDE ANNEX - DOOR FRAME CAULK				Stop Positive (Not Analyzed)

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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
495C-95A 031338641-0220	EXTERIOR B SECTION SOUTH SIDE ANNEX - WHITE EXPANSION CAULK BTWN DECORATIVE CONCRETE	White Non-Fibrous Homogeneous		20% Ca Carbonate 74% Non-fibrous (other)	6% Chrysotile
495C-95B 031338641-0221	EXTERIOR B SECTION SOUTH SIDE ANNEX - WHITE EXPANSION CAULK BTWN DECORATIVE CONCRETE				Stop Positive (Not Analyzed)
495C-96A 031338641-0222	EXTERIOR B SECTION SOUTH SIDE ANNEX - GLAZING ON 6 LIGHT WINDOW SASH	Gray Non-Fibrous Homogeneous	2% Fibrous (other)	20% Ca Carbonate 76% Non-fibrous (other)	2% Chrysotile
495C-96B 031338641-0223	EXTERIOR B SECTION SOUTH SIDE ANNEX - GLAZING ON 6 LIGHT WINDOW SASH				Stop Positive (Not Analyzed)

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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
495C-97A 031338641-0224	EXTERIOR B SECTION SOUTH SIDE ANNEX - WINDOW FRAME CAULK ON 4X5 FIBERGLASS	Gray Non-Fibrous Homogeneous	4% Glass	96% Non-fibrous (other)	None Detected
495C-97B 031338641-0225	EXTERIOR B SECTION SOUTH SIDE ANNEX - WINDOW FRAME CAULK ON 4X5 FIBERGLASS	Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
495C-98A 031338641-0226	EXTERIOR B SECTION TOP ROOF - BLACK PEBBLE MEMBRANE	Black Non-Fibrous Homogeneous	10% Cellulose 10% Synthetic	80% Non-fibrous (other)	None Detected
495C-98B 031338641-0227	EXTERIOR B SECTION TOP ROOF - BLACK PEBBLE MEMBRANE	Black Non-Fibrous Heterogeneous	6% Cellulose	55% Matrix 39% Non-fibrous (other)	None Detected
495C-99A 031338641-0228	EXTERIOR B SECTION TOP ROOF - TAR MASTIC UNDER BLACK PEBBLE MEMBRANE	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
495C-99B <i>031338641-0229</i>	EXTERIOR B SECTION TOP ROOF - TAR MASTIC UNDER BLACK PEBBLE MEMBRANE	Black Non-Fibrous Heterogeneous		60% Matrix 40% Non-fibrous (other)	None Detected
495C-100A <i>031338641-0230</i>	EXTERIOR B SECTION TOP ROOF - BLACK PAPER UNDER MEMBRANE	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
495C-100B <i>031338641-0231</i>	EXTERIOR B SECTION TOP ROOF - BLACK PAPER UNDER MEMBRANE	Black Fibrous Homogeneous	50% Cellulose	50% Non-fibrous (other)	None Detected
495C-101A <i>031338641-0232</i>	EXTERIOR B SECTION TOP ROOF - BROWN PAPER	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected
495C-101B <i>031338641-0233</i>	EXTERIOR B SECTION TOP ROOF - BROWN PAPER	Black Non-Fibrous Heterogeneous	45% Cellulose	55% Non-fibrous (other)	None Detected
495C-102A <i>031338641-0234</i>	EXTERIOR B SECTION TOP ROOF - BLACK MEMBRANE UNDER PAPER	Black Fibrous Heterogeneous	20% Cellulose 10% Synthetic	70% Non-fibrous (other)	None Detected

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EMSL Order:	031338641
CustomerID:	ATC62
CustomerPO:	11-81-0030
ProjectID:	

Attn: **Brian Williams**  
**Cardno ATC**  
**73 William Franks Drive**  
**West Springfield, MA 01089**

Phone: (413) 781-0070  
 Fax: (413) 781-3734  
 Received: 10/02/13 10:29 AM  
 Analysis Date: 10/6/2013  
 Collected: 9/30/2013

Project: 081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL

### 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
495C-102B 031338641-0235	EXTERIOR B SECTION TOP ROOF - BLACK MEMBRANE UNDER PAPER	Black Non-Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
495C-103A 031338641-0236	EXTERIOR B SECTION TOP ROOF - BLACK PEBBLE MEMBRANE	Black Fibrous Heterogeneous	15% Cellulose 25% Glass	60% Non-fibrous (other)	None Detected
495C-103B 031338641-0237	EXTERIOR B SECTION LOWER ROOF - BLACK PEBBLE MEMBRANE	Black Non-Fibrous Heterogeneous	10% Cellulose	55% Matrix 35% Non-fibrous (other)	None Detected
495C-104A 031338641-0238	EXTERIOR B SECTION LOWER ROOF - BLACK PAPER UNDER BLACK PEBBLE MEMBRANE	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
495C-104B 031338641-0239	EXTERIOR B SECTION LOWER ROOF - BLACK PAPER UNDER BLACK PEBBLE MEMBRANE	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected

## Analyst(s)

Henry Akitunde (13)

Jon Williams (103)

Madisen Nnaoji (14)

Jessica Fearon-Brown (69)

Keri-Dean Scarlett (37)

James Hall, Laboratory Manager  
or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Report Amended: 10/10/2013 13:13:00 Replaces the Inital Report 10/06/2013 20:39:32. Reason Code: Data Entry-Change to Appearance

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 Fax: (413) 781-3734  
 Received: 10/02/13 10:29 AM  
 Analysis Date: 10/6/2013  
 Collected: 9/30/2013

Project: **081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL**

## 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
495C-105A <i>031338641-0240</i>	EXTERIOR B SECTION LOWER ROOF - BLACKWALL SHINGLE	Gray/Black Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (other)	None Detected
495C-105B <i>031338641-0241</i>	EXTERIOR B SECTION LOWER ROOF - BLACKWALL SHINGLE	Black Non-Fibrous Heterogeneous		10% Quartz 60% Matrix 30% Non-fibrous (other)	None Detected
495C-106A <i>031338641-0242</i>	EXTERIOR B SECTION LOWER ROOF - TAR MASTIC UNDER BLACKWALL SHINGLE	Brown/Black Non-Fibrous Homogeneous	5% Cellulose	35% Mica 60% Non-fibrous (other)	None Detected
495C-106B <i>031338641-0243</i>	EXTERIOR B SECTION LOWER ROOF - TAR MASTIC UNDER BLACKWALL SHINGLE	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
495C-107A <i>031338641-0244</i>	EXTERIOR B SECTION LOWER ROOF - ALUMINUM FACIA MEMBRANE	Black/Silver Non-Fibrous Heterogeneous	2% Fibrous (other)	98% Non-fibrous (other)	None Detected

Tar with aluminum cover

Analyst(s) \_\_\_\_\_

Henry Akitunde (13)

Jon Williams (103)

Madisen Nnaoji (14)

Jessica Fearon-Brown (69)

Keri-Dean Scarlett (37)

James Hall, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Report Amended: 10/10/2013 13:13:00 Replaces the Inital Report 10/06/2013 20:39:32. Reason Code: Data Entry-Change to Appearance

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Project: **081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL**

## 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
495C-107B <i>031338641-0245</i>	EXTERIOR B SECTION LOWER ROOF - ALUMINUM FACIA MEMBRANE	Black Non-Fibrous Homogeneous		65% Matrix 35% Non-fibrous (other)	None Detected
495C-108A <i>031338641-0246</i>	EXTERIOR B SECTION LOWER ROOF - MASTIC UNDER ALUMINUM FACIA MEMBRANE	White/Black Non-Fibrous Heterogeneous	2% Fibrous (other)	98% Non-fibrous (other)	None Detected
Tar between two layers of plastic					
495C-108B <i>031338641-0247</i>	EXTERIOR B SECTION LOWER ROOF - MASTIC UNDER ALUMINUM FACIA MEMBRANE	Black Non-Fibrous Heterogeneous		60% Matrix 40% Non-fibrous (other)	None Detected
495C-109A <i>031338641-0248</i>	EXTERIOR B SECTION TOP ROOF - BLACK TAR ON ROUND VENTLATORS	Brown/Black Fibrous Homogeneous		86% Non-fibrous (other)	14% Chrysotile
495C-109B <i>031338641-0249</i>	EXTERIOR B SECTION LOWER ROOF - BLACK TAR ON ROUND VENTLATORS				Stop Positive (Not Analyzed)

## Analyst(s)

Henry Akitunde (13)

Jon Williams (103)

Madisen Nnaoji (14)

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James Hall, Laboratory Manager  
or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

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Project: **081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL**

## 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
495C-110A <i>031338641-0250</i>	EXTERIOR B SECTION LOWER ROOF - BLACK TAR ON BRICK	Black Non-Fibrous Homogeneous	2% Fibrous (other)	98% Non-fibrous (other)	None Detected
495C-110B <i>031338641-0251</i>	EXTERIOR B SECTION LOWER ROOF - BLACK TAR ON BRICK	Black Non-Fibrous Heterogeneous		80% Matrix 20% Non-fibrous (other)	None Detected
495C-111A <i>031338641-0252</i>	EXTERIOR B SECTION LOWER ROOF - BLACK CAULK ABOVE COPPER FLASHING	Black Non-Fibrous Homogeneous	10% Cellulose	78% Non-fibrous (other)	12% Chrysotile
495C-111B <i>031338641-0253</i>	EXTERIOR B SECTION LOWER ROOF - BLACK CAULK ABOVE COPPER FLASHING				Stop Positive (Not Analyzed)
495C-114A <i>031338641-0254</i>	EXTERIOR B SECTION CAFETERIA ROOF - MEMBRANE OVER CAFETERIA SKYLIGHT	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

## Analyst(s)


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 James Hall, Laboratory Manager  
 or other approved signatory

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Project: 081.28126.0287/ CITY OF SPRINGFIELD / FORMER CHESTNUT STREET SCHOOL

### 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
495C-114B 031338641-0255	EXTERIOR B SECTION CAFETERIA ROOF - MEMBRANE OVER CAFETERIA SKYLIGHT	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
495C-115A 031338641-0256	EXTERIOR B SECTION CAFETERIA ROOF - FELT PAPER UNDER MEMBRANE OVER CAFETERIA SKYLIGHT	Black Fibrous Heterogeneous	68% Cellulose	32% Non-fibrous (other)	None Detected
495C-115B 031338641-0257	EXTERIOR B SECTION CAFETERIA ROOF - FELT PAPER UNDER MEMBRANE OVER CAFETERIA SKYLIGHT	Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected

Analyst(s) \_\_\_\_\_

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James Hall, Laboratory Manager  
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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Report Amended: 10/10/2013 13:13:00 Replaces the Inital Report 10/06/2013 20:39:32. Reason Code: Data Entry-Change to Appearance

## *Attachment H*

### *Laboratory Reports/Chain-of-Custody (PCB)*

October 9, 2013

Brian Williams  
Cardno ATC Associates - West Springfield  
73 Williams Franks Drive  
West Springfield, MA 01089

Project Location: 475 Chestnut St.  
Client Job Number:  
Project Number: 81.07283.0009  
Laboratory Work Order Number: 13J0070

Enclosed are results of analyses for samples received by the laboratory on October 2, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas  
Project Manager

Cardno ATC Associates - West Springfield  
 73 Williams Franks Drive  
 West Springfield, MA 01089  
 ATTN: Brian Williams

REPORT DATE: 10/9/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 81.07283.0009

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 13J0070

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

PROJECT LOCATION: 475 Chestnut St.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
475-01A	13J0070-01	Caulk	Window Caulk	SW-846 8082A	
475-02A	13J0070-02	Caulk	Door Frame Caulk	SW-846 8082A	
475-03A	13J0070-03	Caulk	Glazing	SW-846 8082A	
475-04A	13J0070-04	Caulk	Expansion Caulk	SW-846 8082A	
475-05A	13J0070-05	Caulk	Vent Caulk	SW-846 8082A	
475-06A	13J0070-06	Caulk	Gray Caulk	SW-846 8082A	
475-07A	13J0070-07	Caulk	Window Caulk	SW-846 8082A	
475-08A	13J0070-08	Caulk	Black Caulk	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 the Con-Test Analytical Laboratory for testing.

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

A handwritten signature in black ink, appearing to read "M. Erickson", is written on a light gray rectangular background.

Michael A. Erickson  
Laboratory Director

Project Location: 475 Chestnut St.

Sample Description: Window Caulk

Work Order: 13J0070

Date Received: 10/2/2013

Field Sample #: 475-01A

Sampled: 9/30/2013 14:32

Sample ID: 13J0070-01

Sample Matrix: Caulk

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.68	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:25	MJC
Aroclor-1221 [1]	ND	0.68	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:25	MJC
Aroclor-1232 [1]	ND	0.68	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:25	MJC
Aroclor-1242 [1]	ND	0.68	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:25	MJC
Aroclor-1248 [1]	ND	0.68	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:25	MJC
Aroclor-1254 [1]	ND	0.68	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:25	MJC
Aroclor-1260 [1]	ND	0.68	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:25	MJC
Aroclor-1262 [1]	ND	0.68	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:25	MJC
Aroclor-1268 [1]	ND	0.68	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:25	MJC
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		107	30-150					10/8/13 17:25	
Decachlorobiphenyl [2]		100	30-150					10/8/13 17:25	
Tetrachloro-m-xylene [1]		114	30-150					10/8/13 17:25	
Tetrachloro-m-xylene [2]		93.5	30-150					10/8/13 17:25	

Project Location: 475 Chestnut St.

Sample Description: Door Frame Caulk

Work Order: 13J0070

Date Received: 10/2/2013

Field Sample #: 475-02A

Sampled: 9/30/2013 14:45

Sample ID: 13J0070-02

Sample Matrix: Caulk

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:38	MJC
Aroclor-1221 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:38	MJC
Aroclor-1232 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:38	MJC
Aroclor-1242 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:38	MJC
Aroclor-1248 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:38	MJC
Aroclor-1254 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:38	MJC
Aroclor-1260 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:38	MJC
Aroclor-1262 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:38	MJC
Aroclor-1268 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:38	MJC
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		110	30-150					10/8/13 17:38	
Decachlorobiphenyl [2]		105	30-150					10/8/13 17:38	
Tetrachloro-m-xylene [1]		109	30-150					10/8/13 17:38	
Tetrachloro-m-xylene [2]		103	30-150					10/8/13 17:38	

Project Location: 475 Chestnut St.

Sample Description: Glazing

Work Order: 13J0070

Date Received: 10/2/2013

Field Sample #: 475-03A

Sampled: 9/30/2013 14:55

Sample ID: 13J0070-03

Sample Matrix: Caulk

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.69	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:57	MJC
Aroclor-1221 [1]	ND	0.69	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:57	MJC
Aroclor-1232 [1]	ND	0.69	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:57	MJC
Aroclor-1242 [1]	ND	0.69	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:57	MJC
Aroclor-1248 [1]	ND	0.69	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:57	MJC
Aroclor-1254 [1]	ND	0.69	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:57	MJC
Aroclor-1260 [1]	ND	0.69	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:57	MJC
Aroclor-1262 [1]	ND	0.69	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:57	MJC
Aroclor-1268 [1]	ND	0.69	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 17:57	MJC
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		108	30-150					10/8/13 17:57	
Decachlorobiphenyl [2]		102	30-150					10/8/13 17:57	
Tetrachloro-m-xylene [1]		109	30-150					10/8/13 17:57	
Tetrachloro-m-xylene [2]		103	30-150					10/8/13 17:57	

Project Location: 475 Chestnut St.

Sample Description: Expansion Caulk

Work Order: 13J0070

Date Received: 10/2/2013

Field Sample #: 475-04A

Sampled: 9/30/2013 15:10

Sample ID: 13J0070-04

Sample Matrix: Caulk

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:10	MJC
Aroclor-1221 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:10	MJC
Aroclor-1232 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:10	MJC
Aroclor-1242 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:10	MJC
Aroclor-1248 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:10	MJC
Aroclor-1254 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:10	MJC
Aroclor-1260 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:10	MJC
Aroclor-1262 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:10	MJC
Aroclor-1268 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:10	MJC
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		106	30-150					10/8/13 18:10	
Decachlorobiphenyl [2]		101	30-150					10/8/13 18:10	
Tetrachloro-m-xylene [1]		102	30-150					10/8/13 18:10	
Tetrachloro-m-xylene [2]		94.0	30-150					10/8/13 18:10	

Project Location: 475 Chestnut St.

Sample Description: Vent Caulk

Work Order: 13J0070

Date Received: 10/2/2013

Field Sample #: 475-05A

Sampled: 9/30/2013 15:20

Sample ID: 13J0070-05

Sample Matrix: Caulk

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.71	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:23	MJC
Aroclor-1221 [1]	ND	0.71	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:23	MJC
Aroclor-1232 [1]	ND	0.71	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:23	MJC
Aroclor-1242 [1]	ND	0.71	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:23	MJC
Aroclor-1248 [1]	ND	0.71	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:23	MJC
Aroclor-1254 [1]	ND	0.71	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:23	MJC
Aroclor-1260 [1]	ND	0.71	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:23	MJC
Aroclor-1262 [1]	ND	0.71	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:23	MJC
Aroclor-1268 [1]	ND	0.71	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:23	MJC
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.6	30-150					10/8/13 18:23	
Decachlorobiphenyl [2]		75.1	30-150					10/8/13 18:23	
Tetrachloro-m-xylene [1]		86.2	30-150					10/8/13 18:23	
Tetrachloro-m-xylene [2]		79.4	30-150					10/8/13 18:23	

Project Location: 475 Chestnut St.

Sample Description: Gray Caulk

Work Order: 13J0070

Date Received: 10/2/2013

Field Sample #: 475-06A

Sampled: 9/30/2013 15:30

Sample ID: 13J0070-06

Sample Matrix: Caulk

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:35	MJC
Aroclor-1221 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:35	MJC
Aroclor-1232 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:35	MJC
Aroclor-1242 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:35	MJC
Aroclor-1248 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:35	MJC
Aroclor-1254 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:35	MJC
Aroclor-1260 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:35	MJC
Aroclor-1262 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:35	MJC
Aroclor-1268 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:35	MJC
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		100	30-150					10/8/13 18:35	
Decachlorobiphenyl [2]		98.0	30-150					10/8/13 18:35	
Tetrachloro-m-xylene [1]		105	30-150					10/8/13 18:35	
Tetrachloro-m-xylene [2]		98.6	30-150					10/8/13 18:35	

Project Location: 475 Chestnut St.

Sample Description: Window Caulk

Work Order: 13J0070

Date Received: 10/2/2013

Field Sample #: 475-07A

Sampled: 9/30/2013 15:40

Sample ID: 13J0070-07

Sample Matrix: Caulk

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:48	MJC
Aroclor-1221 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:48	MJC
Aroclor-1232 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:48	MJC
Aroclor-1242 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:48	MJC
Aroclor-1248 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:48	MJC
Aroclor-1254 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:48	MJC
Aroclor-1260 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:48	MJC
Aroclor-1262 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:48	MJC
Aroclor-1268 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 18:48	MJC
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		112	30-150					10/8/13 18:48	
Decachlorobiphenyl [2]		109	30-150					10/8/13 18:48	
Tetrachloro-m-xylene [1]		123	30-150					10/8/13 18:48	
Tetrachloro-m-xylene [2]		111	30-150					10/8/13 18:48	



Project Location: 475 Chestnut St.

Sample Description: Black Caulk

Work Order: 13J0070

Date Received: 10/2/2013

Field Sample #: 475-08A

Sampled: 9/30/2013 15:50

Sample ID: 13J0070-08

Sample Matrix: Caulk

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 19:01	MJC
Aroclor-1221 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 19:01	MJC
Aroclor-1232 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 19:01	MJC
Aroclor-1242 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 19:01	MJC
Aroclor-1248 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 19:01	MJC
Aroclor-1254 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 19:01	MJC
Aroclor-1260 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 19:01	MJC
Aroclor-1262 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 19:01	MJC
Aroclor-1268 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	10/4/13	10/8/13 19:01	MJC
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		64.2	30-150					10/8/13 19:01	
Decachlorobiphenyl [2]		59.6	30-150					10/8/13 19:01	
Tetrachloro-m-xylene [1]		74.3	30-150					10/8/13 19:01	
Tetrachloro-m-xylene [2]		66.0	30-150					10/8/13 19:01	

**Sample Extraction Data**

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

<b>Lab Number [Field ID]</b>	<b>Batch</b>	<b>Initial [g]</b>	<b>Final [mL]</b>	<b>Date</b>
13J0070-01 [475-01A]	B082311	0.585	10.0	10/04/13
13J0070-02 [475-02A]	B082311	0.513	10.0	10/04/13
13J0070-03 [475-03A]	B082311	0.581	10.0	10/04/13
13J0070-04 [475-04A]	B082311	0.551	10.0	10/04/13
13J0070-05 [475-05A]	B082311	0.561	10.0	10/04/13
13J0070-06 [475-06A]	B082311	0.531	10.0	10/04/13
13J0070-07 [475-07A]	B082311	0.550	10.0	10/04/13
13J0070-08 [475-08A]	B082311	0.536	10.0	10/04/13

**QUALITY CONTROL**

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B082311 - SW-846 3540C</b>										
<b>Blank (B082311-BLK1)</b>										
Prepared: 10/04/13 Analyzed: 10/08/13										
Aroclor-1016	ND	0.80	mg/Kg							
Aroclor-1016 [2C]	ND	0.80	mg/Kg							
Aroclor-1221	ND	0.80	mg/Kg							
Aroclor-1221 [2C]	ND	0.80	mg/Kg							
Aroclor-1232	ND	0.80	mg/Kg							
Aroclor-1232 [2C]	ND	0.80	mg/Kg							
Aroclor-1242	ND	0.80	mg/Kg							
Aroclor-1242 [2C]	ND	0.80	mg/Kg							
Aroclor-1248	ND	0.80	mg/Kg							
Aroclor-1248 [2C]	ND	0.80	mg/Kg							
Aroclor-1254	ND	0.80	mg/Kg							
Aroclor-1254 [2C]	ND	0.80	mg/Kg							
Aroclor-1260	ND	0.80	mg/Kg							
Aroclor-1260 [2C]	ND	0.80	mg/Kg							
Aroclor-1262	ND	0.80	mg/Kg							
Aroclor-1262 [2C]	ND	0.80	mg/Kg							
Aroclor-1268	ND	0.80	mg/Kg							
Aroclor-1268 [2C]	ND	0.80	mg/Kg							
Surrogate: Decachlorobiphenyl	4.29		mg/Kg	4.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.96		mg/Kg	4.00		99.1	30-150			
Surrogate: Tetrachloro-m-xylene	3.96		mg/Kg	4.00		99.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.60		mg/Kg	4.00		90.0	30-150			
<b>LCS (B082311-BS1)</b>										
Prepared: 10/04/13 Analyzed: 10/08/13										
Aroclor-1016	4.7	0.80	mg/Kg	4.00		118	40-140			
Aroclor-1016 [2C]	4.4	0.80	mg/Kg	4.00		111	40-140			
Aroclor-1260	4.9	0.80	mg/Kg	4.00		123	40-140			
Aroclor-1260 [2C]	4.8	0.80	mg/Kg	4.00		120	40-140			
Surrogate: Decachlorobiphenyl	5.19		mg/Kg	4.00		130	30-150			
Surrogate: Decachlorobiphenyl [2C]	4.81		mg/Kg	4.00		120	30-150			
Surrogate: Tetrachloro-m-xylene	4.57		mg/Kg	4.00		114	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	4.15		mg/Kg	4.00		104	30-150			
<b>LCS Dup (B082311-BSD1)</b>										
Prepared: 10/04/13 Analyzed: 10/08/13										
Aroclor-1016	4.5	0.80	mg/Kg	4.00		111	40-140	6.04	30	
Aroclor-1016 [2C]	4.1	0.80	mg/Kg	4.00		103	40-140	7.23	30	
Aroclor-1260	4.5	0.80	mg/Kg	4.00		111	40-140	9.60	30	
Aroclor-1260 [2C]	4.3	0.80	mg/Kg	4.00		109	40-140	10.2	30	
Surrogate: Decachlorobiphenyl	4.53		mg/Kg	4.00		113	30-150			
Surrogate: Decachlorobiphenyl [2C]	4.18		mg/Kg	4.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	4.25		mg/Kg	4.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.83		mg/Kg	4.00		95.8	30-150			

**FLAG/QUALIFIER SUMMARY**

- \* QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

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

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

**CERTIFICATIONS**

**Certified Analyses included in this Report**

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

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

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



**CON-test**

ANALYTICAL LABORATORY

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

**CHAIN OF CUSTODY RECORD**

39 Spruce Street  
East Longmeadow, MA 01028

Page \_\_\_\_ of \_\_\_\_

Company Name: Carono Arc WSPed  
Address: 73 William French Dr.

Telephone: 413-348-4475  
Project # 081-28126-0287

Attention: Brian Williams@Carono.Com

Project Location: 475 Chestnut St.

Project Proposal Provided? (for billing purposes)  
 Yes  No  
proposal date

Client PO#  
DATA DELIVERY (check all that apply)  
 FAX  EMAIL  WEBSITE  
Format:  PDF  EXCEL  GIS  
 OTHER

Con-Test Lab ID <small>(Laboratory use only)</small>	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Matrix Code	Canis Code
01	475-01A <u>Winnow</u>	09-30-17	1432	✓		0	0
02	475-02A <u>Perrine G-14</u>	09-21-19	1445	✓		0	0
03	475-03A <u>Flaway</u>	09-30-13	1455	✓		0	0
04	475-04A <u>Exposure</u>	07-20-13	1510	✓		0	0
05	475-05A <u>Westh</u>	07/1/13	1520	✓		0	0
06	475-06A <u>Green G-14</u>	07/1/13	1530	✓		0	0
07	475-07A <u>Winnow</u>	07/01/13	1540	✓		0	0
08	475-08A <u>Buck</u>	07/01/13	1556	✓		0	0
09							
10							

Comments:

S.9 10/21/13 1335

Received by: (signature) [Signature] Date/Time: 07/01/13

Relinquished by: (signature) [Signature] Date/Time: 07/01/13

Received by: (signature) [Signature] Date/Time: 10/21/13

Turnaround Time Starts at 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

ANALYSIS REQUESTED

Soxhlot 3540C  
PCB 8082

Turnaround  7-Day  
 10-Day  
 Other 5-Day  
RUSH

Detection Limit Requirements  
Massachusetts: 21 ppm

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



Accredited  
WBE/DBE Certified

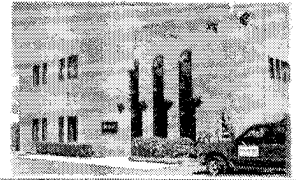
# of Containers  
\*\* Preservation  
\*\*\* Container Code  
Dissolved Meta  
 Field Filtered  
 Lab to Filter

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

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

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

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



### Sample Receipt Checklist

CLIENT NAME: Cardno ATC RECEIVED BY: RLF DATE: 10/2/13

- 1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included
- 2) Does the chain agree with the samples? (Yes) No  
 If not, explain: \_\_\_\_\_
- 3) Are all the samples in good condition? (Yes) No  
 If not, explain: \_\_\_\_\_

4) How were the samples received:  
 On Ice  Direct from Sampling  Ambient  In Cooler(s)   
 Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A  
 Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun 5.9

- 5) Are there Dissolved samples for the lab to filter? Yes (No)  
 Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_
- 6) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)  
 Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored: 19  
 Permission to subcontract samples? Yes No  
 (Walk-in clients only) if not already approved  
 Client Signature: \_\_\_\_\_

- 8) Do all samples have the proper Acid pH: Yes No (N/A)
- 9) Do all samples have the proper Base pH: Yes No (N/A)
- 10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No (N/A)

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

Laboratory Comments: \_\_\_\_\_

40 mL vials: # HCl _____ # Methanol _____ # Bisulfate _____ # DI Water _____ # Thiosulfate _____ Unpreserved _____	<b>Time and Date Frozen:</b> _____
--	---------------------------------------

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

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

Doc #277 Rev. 4 August 2013

Who notified of False statements?  
 Log-In Technician Initials:

Date/Time:  
 Date/Time:

RLF 10/2/13 1325