Hazardous Materials Building Assessment

September 16-19 and 22, 2014
1 King Place
Meriden, CT

City of Meriden

Meriden, CT

November 4, 2014

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

Project No. 20120232.A7E

FUSS & O'NEILL
EnviroScience, LLC

November 4, 2014

Ms. Juliet Burdelski
Director of Economic Development
City of Meriden
142 East Main Street, Rm 217
Meriden, CT 06450

Re: Hazardous Materials Building Assessment-
Former Veteran's Memorial Hospital
1 King Place, Meriden, CT
Fuss & O'Neill EnviroScience Project No. 20120232.A7E

Dear Ms. Burdelski:

Enclosed is the report for the limited asbestos and hazardous materials building assessment conducted at the Former Veteran's Memorial Hospital located at 1 King Place in Meriden, CT (the "Site"). The work was conducted for the City of Meriden (the "Client").

The services were performed September 16-19 and September 22, 2014 by Fuss & O'Neill EnviroScience, LLC licensed inspectors and included a limited asbestos and hazardous material inspection in support of the clean-up project at the Site. The information summarized in this report is for the above-mentioned materials, only. The work was performed in accordance with our written proposal dated September 15, 2014.

If you should have any questions regarding the contents of this report, please do not hesitate to contact me at (860) 646-2469, extension 5570. Thank you for this opportunity to have served your environmental needs.

Sincerely,

Carlos Texidor
Project Manager

CT/seo

Enclosure

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FUSS & O'NEILL
EnviroScience, LLC

1 Introduction

Fuss & O'Neill EnviroScience, LLC (EnviroScience) representatives John Coletti, Anthony Malat, Bob Feingold, Chris McIntyre, and Kim Rinard performed a limited asbestos and hazardous materials assessment at the Former Veteran's Memorial Hospital located at 1 King Place in Meriden, CT (the "Site"). The inspection included the following:

- Limited asbestos inspection (visible and accessible materials located on the floors, horizontal and verticals surfaces.)
- Fluorescent lamps and ballasts (located in debris piles and on the floors throughout the building);
- Paint chips (located on the floors in stairwells and mechanical spaces); and
- Other hazardous materials observed throughout the building.

The work was conducted for the City of Meriden (the "Client") in accordance with our written scope of services dated September 3, 2014 and is subject to the limitations included in *Appendix A*.

2 Asbestos Inspection

A property Owner must ensure that a thorough asbestos-containing materials (ACM) inspection is performed prior to possible disturbance of suspect ACM during renovation or demolition activities. This is a requirement of the EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) regulation located at Title 40 CFR, Part 61, Subpart M. At the time of the inspection there were no planned renovation or demolition activities. The inspection was conducted for only suspect ACM that was visible and accessible scheduled for removal as part of the proposed clean-up activities, and to "make safe" for individuals to enter the buildings.This inspection is not a NESHAP inspection, and should not be used to plan renovations or demolition projects.

On September 16-19 and September 22, Mr. Coletti, Mr. Malat, Mr. Feingold, Mr. McIntyre, and Ms. Rinard of EnviroScience conducted the inspection. Mr. Coletti and Mr. Malat are State of Connecticut Department of Public Health (CT DPH) licensed Asbestos Inspectors. Refer to *Appendix B* for EnviroScience licenses and accreditations.

2.1 Methodology

The inspection was conducted by visually inspecting debris observed on the floor which was suspect asbestos-containing material. Suspect asbestos-containing materials may include but are not limited to: asphalt floor tile, vinyl floor tile, vinyl sheet flooring, construction mastics, acoustical plaster, vinyl wall coverings, wallboards, spackling compounds, joint compounds, ceiling tiles, textured paints, spray-applied insulation, blown-in insulation, fireproofing materials, HVAC duct insulation, boiler insulation, pipe insulation, and fire doors. The EPA recommends collecting suspect ACM samples in a manner sufficient to determine asbestos content and to segregate each suspect type of homogenous (similar in color, texture, and date of application) materials.

The inspectors collected bulk samples of visible accessible suspect ACM materials from the debris piles on the floor and prepared proper chain of custody forms to submit the asbestos bulk samples to EMSL Analytical Inc. located in Cinnaminson, New Jersey (EMSL) for analysis. EMSL is a Connecticut-licensed and American Industrial Hygiene Association (AIHA)-accredited asbestos laboratory. The sample locations, material type, sample identification, and asbestos content as identified by PLM bulk sample analysis is provided in Table 1 attached hereto. Suspect ACM not listed in the table that may be identified at a later date at the Site, should be assumed to be ACM until sample collection and analysis indicate otherwise. Asbestos bulk sample analysis was conducted using the EPA Interim Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116) via Polarized Light Microscopy with Dispersion Staining (PLM/DS).

Select samples of plaster and mastic that were reported as < 1 % asbestos but above the laboratory method reporting limit were confirmed thru point counting by the PLM method mentioned above. Three of the samples verified thru point counting were reported with concentrations of asbestos above 1%. These materials are included in the list of ACM in section 2.2 below.

If samples of suspect materials could not be collected or were inaccessible but observed elsewhere, these materials were assumed to contain asbestos and the inspectors approximated quantities. The roof of the structure was not included in the scope of work for this inspection.

EnviroScience did not perform subsurface and/or destructive investigations for suspect ACM during our inspection of the subject property. Confined spaces were identified within the basement of the 1968 and Bradley buildings, portions of the building identified as confined spaces were not included in this inspection.

2.2 Results

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

- White paper formerly on duct – Northwest Mechanical Room(1968 Building)
- White pipe insulation on ground – Northwest Mechanical Room (1968 Building)
- White mudded fitting insulation on ground – Northwest Mechanical Room (1968 Building)
- Off-white 9"x 9" floor tiles – Stairwell H (1968 Building)
- Black mastic on off-white 9" x 9" floor – Stairwell H(1968 Building)
- Off-white 9" x 9" floor tiles – Second Floor East Hall (1968 Building)
- Black mastic on off-white 9" x 9" floor – Second Floor East Hall (1968 Building)
- Beige 12" x 12" floor tiles – Second Floor Northeast Area (1968 Building)
- Black mastic on Beige 12" x 12" floor tiles – Fourth Floor Nurses Suite (1968 Building)
- Red 9" x 9" floor tile – Fifth Floor South Hall (1952 Section)
- Black mastic on red 9" x 9" floor tiles – Fifth Floor South Hall(1952 Section)
- Green 9" x 9" floor tile – Fifth Floor South Hall (1952 Section)
- Black mastic on green 9" x 9" floor tile – Fifth Floor South Hall (1952 Section)
- White air cell pipe insulation on floor – Fifth Floor Hallway (1952 Section)
- White magnesium insulation on ground – Third Floor Open Area Room (1952 Bradley)
- Air cell pipe insulation on ground – Third Floor Open Area Room (1952 Bradley)
- Off-white 12" x 12" floor tiles – Third Floor Open Area Room (1952 Bradley)

- Brown 9" x 9" checkerboard tile – First Floor Middle Room (1952 Bradley)
- Mastic on brown 9" x 9" checkerboard tile – First Floor Middle Room (1952 Bradley)
- Light brown 12" x 12" floor tiles – First Floor Hall (South Addition)
- White plaster(skim)* – Second Floor (Nursing school)
- White plaster (rough)* – Second Floor (Nursing school)
- White plaster (rough)* – First Floor (Far Southeast Area)

*Asbestos content determined thru TEM Gravimetric Reduction method.

In addition, the following materials were not within the limited scope of services for this phase however, they are assumed to be **ACM** based on visible inspection:

- Interior/Exterior Fire Doors
- Ceiling tiles located within the ceiling grid intact
- Sheetrock and plaster wall surfaces observed throughout the building
- Thermal system insulation observed on pipes and system components
- Surfacing materials observed on the underside of the concrete floor slabs, interior masonry partition walls and the interior surface of exterior building walls throughout the building

Refer to Table 1 for a complete list of ACM and non-ACM identified as part of this inspection. Refer to Figures 1-5 for asbestos bulk sample locations. The general condition of materials determined to be ACM is included in Table 1. Refer to *Appendix C* for the asbestos laboratory report and chain of custody forms. Refer to *Appendix D* for site photographs.

2.3 Discussion

The EPA, the Occupational Safety and Health Administration (OSHA), and the CT DPH, define a material that contains greater than one percent (>1%) asbestos, utilizing PLM/DS, as being an ACM. Materials that are identified as "none detected" are specified as not containing asbestos.

2.4 Conclusion

The materials determined to contain asbestos that will be impacted by any proposed clean-up "make safe", work must be remediated by a licensed Asbestos Abatement Contractor prior to entry into the building(s).

If applicable, EnviroScience recommends that a comprehensive scope of work and technical specification be developed as part of the debris clean-up for the Site. We have developed an opinion of cost for the complete removal of all identified asbestos. Note the total cost is inclusive of removing all asbestos observed within the debris piles, and a more limited scope can be tailored to any specific clean-up, "make safe" work as necessary.

Suspect materials encountered during the clean-up, "make safe" activitiesthat are not identified in this report as being non-ACM should be presumed to be ACM until sample collection and laboratory analysis indicate otherwise.

3 Potential Lead-Based Paint

EnviroScience field staff observed potential lead-based paint chips on the floor from the deteriorated painted surfaces within the stairwells and mechanical spaces. No lead-based paint determination was performed at the time of the inspection. We recommended anayalizes of lead paint chips prior to disposal of building materials.

3.1 Discussion

Lead-based paint issues involving properties that are not residential are regulated to a limited degree for worker protection relating to paint-disturbing work activities and waste disposal. Worker protection is regulated by the Occupational Safety and Health Administration (OSHA) regulations, in addition to the CT DPH. These regulations involve air monitoring of workers exposure levels when disturbing lead-containing paint.

The EPA Resource Conservation and Recovery Act (RCRA) and the Connecticut Department of Energy and Environmental Protection regulate the disposal of lead-containing waste. Potentially lead-containing materials that will be removed from the Site for disposal during the debris clean-up activities must either be analyzed using the Toxicity Characteristic Leaching Procedure (TCLP) analysis to determine if lead is present or be presumed as a hazardous waste. A TCLP sample is a representative sample of the intended waste stream. The results are compared to the threshold value of 5.0 milligrams per liter (mg/L): a result exceeding this value is considered a D008 hazardous waste in accordance with RCRA.

3.2 Conclusion

OSHA published a Lead in Construction Standard (OSHA Lead Standard) Title 29 CFR, Part 1926.62 in May 1993. The OSHA Lead Standards are task-based and derived from airborne exposure and blood lead levels.

Building components containing lead levels above industry standards that are disturbed during the debris clean-up activities may cause exposure to lead above the OSHA standards. No TCLP sample was collected at the time of the limited asbestos and hazardous material inspection to characterize the expected waste that may result from the debris clean-up.

4 PCB-Containing Fluorescent Light Ballasts and Mercury-Containing Lamps

4.1 PCB-Containing Fluorescent Ballasts

Fluorescent light ballasts manufactured prior to 1979 may contain capacitors that contain PCBs. Light ballasts installed as late as 1985 may also contain PCB capacitors. Fluorescent light ballasts that are not

labeled as "No-PCBs" must be assumed to contain PCBs, unless proven otherwise by quantitative analysis. Capacitors in fluorescent light ballasts labeled as non-PCB-containing may contain diethylhexl phthalate (DEHP). DEHP was the primary substitute to replace PCBs for small capacitors in fluorescent light ballasts in use until 1991. DEHP is a toxic substance, a suspected carcinogen, and is listed under EPA RCRA and the Superfund law as a hazardous waste. Therefore, EPA Superfund liability exists for landfilling both PCB and DEHP-containing light ballasts. These listed materials are considered hazardous waste under EPA RCRA, and require special handling and disposal considerations.

On September 16-19 and September 22, EnviroScience representative(s), Mr. Coletti, Mr. Malat, Ms. Rinard, and Mr. Feingold performed a visual inspection of representative fluorescent light fixtures to identify possible PCB-containing light ballasts. The inspection involved visually inspecting labels on representative light ballasts to identify dates of manufacture and labels indicating "No PCBs". Ballasts manufactured after 1991 were not listed as PCB or DEHP-containing ballasts, and were not quantified for disposal. 572 fluorescent lamp ballasts were observed during the inspection.

The light ballasts without a label indicating "No PCBs" are presumed to be PCB-containing waste and must be segregated for proper removal, packaging, transport, and disposal as PCB-containing waste. Those light ballasts labeled as "No PCBs" indicating manufacture dates prior to 1991 are presumed to contain DEHP. DEHP-containing light ballasts must be segregated for proper removal, packaging, transport, and disposal as non-PCB hazardous waste. Note that disposal requirements for DEHP-containing ballasts are slightly varied, and disposal costs are slightly less than PCB-containing light ballasts. Please refer to Table 2 for the type and estimated quantity on debris piles of PCB/DEHP-Containing Light Ballasts

4.2 Mercury-Containing Equipment

Fluorescent lamps/tubes are presumed to contain mercury vapor, which is a hazardous substance to both human health and the environment. Thermostatic controls and electrical switch gear may contain a vial or bulb of mercury associated with the control. Mercury-containing equipment is regulated for proper disposal by the EPA RCRA hazardous waste regulations. According to the EPA, mercury lamps are characterized as a Universal Waste. Therefore, fluorescent lamps must be either recycled, or disposed as hazardous waste.

On September 16-19 and September 22, EnviroScience representatives, Mr. Coletti, Mr. Malat, Ms. Rinard, and Mr. Feingold, performed an inventory of mercury lamps observed on ground and within the debris piles at the Site; please refer to Table 3. These fixtures were inventoried in-place.

5 Additional Hazardous Materials and Debris

EnviroScience field staff observed stockpiles of non-bulk containers of surplus chemicals, bulk containers of chemicals, debris piles containing household waste materials and car and truck tires throughout the building.

In addition to bulk containers and non-bulk containers of surplus chemicals, EnviroScience observed one cardboard box, with a heavy accumulation of crystalline material on the outer portion of the box with visible staining at the base of the box, with containers in various states of decay observed in the box. Enviroscience field staff could not determine the contents of the containers in the box at the time of the survey.

Based on Title 29 CFR 1926.120 "Hazardous Waste Operations and Emergency Response" regulations, crystalline material shall be handled as a shock-sensitive waste until the contents are determined. Shock-sensitive materials may pose a flame or explosion hazard if improperly handled.

Bulk containers of unknown chemicals were observed in isolated areas within the hospital building located at the Site. The contents of these containers could not be determined as the labels were in various states of degradation.

- Four 5-gallon buckets of unknown fluid located in the Incinerator Room
- One 55-gallon drum observed in the Incinerator Room
- One 55-gallon drum observed in the Laundry/Storage Area
- One 55-gallon drum of cleaning solution observed in the South Addition Boiler Plant
- One 55-gallon drum observed in the South Addition Boiler Area
- One 55-gallon drum labeled "Mobil Racing Fuel" in the upper floors of the 1952 Building
- One oxygen/acetylene cylinder setup observed in the South Addition Boiler Plant

Non-bulk containers of unknown surplus chemicals in various states of decay were observed in maintenance, janitorial and mechanical spaces. The surplus chemicals observed included but are not limited to: spray paints, penetrating oils, cutting oils, adhesives, machine oil, cleaning solutions and pesticides.

5.1 Conclusion

The contents of the non-bulk and bulk containers must be characterized for disposal purposes or presumed hazardous and disposed of accordingly.

Report prepared by Environmental Technician Kim Rinard.

Reviewed by:

Carlos Texidor
Project Manager

Robert L. May, Jr.
President

Tables

1. Summary of Asbestos Sample Results

Table 1
Asbestos Sample Results – 09/25/2014

Sample No.	Sample Location	Material Type	Result Total Asbestos %
925-JAC-1	**1968 Building First Floor Northwest Mechanical Room**	**White paper formerly on 12" wide duct**	**12% Chrysotile**
925-JAC-2	1968 Building First Floor Northwest Mechanical Room	White blown-in insulation on ground	ND
925-JAC-3	**1968 Building First Floor Northwest Mechanical Room**	**White Pipe Insulation on Ground**	**6% Chrysotile**
925-JAC-4	**1968 Building First Floor Northwest Mechanical Room**	**White Mudded Fitting Insulation on Ground**	**8% Chrysotile**
925-JAC-5	1968 Building First Floor Northwest Mechanical Room	Black batting insulation on fiberglass pipe on ground	ND
925-JAC-6	**1968 Building Stairwell from Mechanical Room to Second Floor**	**Off-white 9"x 9" Floor tiles(Broken)**	**4% Chrysotile**
925-JAC-7	**1968 Building Stairwell from Mechanical Room to Second Floor**	**Black mastic to the 9" x 9" off-white floor tiles**	**5% Chrysotile**
925-JAC-8	1968 Building Stairwell H, at Fourth floor	White damaged plaster (skim)	ND
925-JAC-9	1968 Building Stairwell H, at Fourth floor	White damaged plaster (rough)	ND
925-JAC-10	South Addition First Floor Operating Room	White 1' x 1' Ceiling tiles on ground	ND
925-JAC-11	South Addition First Floor Operating Room	White damaged ceramic tile grout (4"x 4")	ND
925-JAC-12	South Addition First Floor Operating Room	White damaged ceramic tile backing	ND
925-JAC-13	**South Addition First Floor Hall**	**12" x 12" Light Brown Floor tiles**	**4% Chrysotile**
925-JAC-14	South Addition First Floor Hall	Brown mastic associated with 12" x 12" floor tiles	ND
925-JAC-15	1968 Building First Floor Engineering Office Area	White 2' x 4' ceiling tiles on ground	ND
925-JAC-16	North Addition First Floor Morgue Area	Off-white sheetrock/joint compound	ND
925-JAC-17	North Addition First Floor Morgue Area	White joint compound only	ND
925-JAC-18	1968 Building Second Floor by Main Entrance	1' x 1' White splined ceiling tiles	ND
925-JAC-19	**1968 Building Second Floor East Hall**	**Off-white 9" x 9" floor tiles**	**4% Chrysotile**
925-JAC-20	**1968 Building Second Floor East Hall**	**Black mastic to the off-white 9" x 9" floor tile**	**8% Chrysotile**

Sample No.	Sample Location	Material Type	Result Total Asbestos %
925-JAC-21	1968 Building Second Floor Purple Office Area, Near Main Entrance	White 2' x 4' Ceiling tiles	ND
925-JAC-22	1968 Building Second Floor Purple Office Area, Near Main Entrance	White 1' x 1' tiles	ND
925-JAC-23	North Addition Incinerator Room, Near Morgue	White Magnesium Insulation on Ground	ND
925-JAC-24	North Addition Incinerator Room, Near Morgue	Off-white boiler breeching insulation on ground	ND
925-JAC-25	Incinerator Area E12 Boiler	Off-white Magnesium Insulation on ground	ND
925-JAC-26	1968 Section Second Floor East Area Laboratory	2' x 4' White Ceiling Tiles on Ground	ND
925-JAC-27	**1968 Section Second Floor Northeast Area Hall**	**12" x 12" Beige Floor tile**	**4% Chrysotile**
925-JAC-28	1968 Section Second Floor Northeast Area Hall	Brown mastic to 12" x 12" floor tiles	ND
925-JAC-29	1968 Section Third floor Laboratory 3359	White plaster (skim)	ND
925-JAC-30	1968 Section Third floor Laboratory	Brown plaster (rough)	ND
925-JAC-31	1968 Section Third floor Room 3341	White sheetrock/joint compound on ground	ND
925-JAC-32	1968 Section Third floor Room 3341	White joint compound on ground	ND
925-JAC-33	North addition Third Floor Pharmacy Area	Yellow spray-on fireproofing	ND
925-JAC-34	North addition Third floor Managers Information Corridor	White 1' x 1' ceiling tiles	ND
925-JAC-35	North addition Third floor Managers Information Corridor	Brown glue daubs to 1' x 1' ceiling tiles	ND
925-JAC-36	1952 Section Second Floor Middle Stairwell	12" x 12" beige floor tiles	ND
925-JAC-37	1952 Section Second Floor Middle Stairwell	Yellow mastic to 12" x 12" beige floor tiles	ND
925-JAC-38	1968 Section Fourth Floor Nurses Suite	12" x 12" Beige floor tiles	ND
925-JAC-39	**1968 Section Fourth Floor Nurses Suite**	**Black mastic to 12" x 12" beige floor tile**	**7% Chrysotile**
925-JAC-40	Fourth floor Baby Observation Area	Black Sheet Vinyl Flooring	ND
925-JAC-41	Fourth Floor East Area Bathroom	White Ceramic Tile Grout 1' x 1'	ND
925-JAC-42	Fourth Floor East Area Bathroom	Yellow Ceramic Tile Backing	ND
925-JAC-43	1968 Section Third Floor Hall at 327 and 329	12" x 12" Off White Floor Tile	ND

Sample No.	Sample Location	Material Type	Result Total Asbestos %
925-JAC-44	1968 Section Third Floor Hall at 327 and 329	Brown Mastic to 12" x 12" off-white floor tile	ND
925-JAC-45	1952 Section Fifth Floor South Hall	White plaster(skim)	ND
925-JAC-46	1952 Section Fifth Floor South Hall	Brown plaster(rough)	ND
925-JAC-47	**1952 Section Fifth Floor South Hall**	**Red 9" x 9" Floor tiles**	**10% Chrysotile**
925-JAC-48	**1952 Section Fifth Floor South Hall**	**Black mastic to the Red 9" x 9" Floor tiles**	**5% Chrysotile**
925-JAC-49	**1952 Section Fifth Floor South Hall**	**Green 9" x 9" Floor Tiles**	**4% Chrysotile**
925-JAC-50	**1952 Section Fifth Floor South Hall**	**Black mastic to the Green 9" x 9" Floor Tiles**	**5% Chrysotile**
925-JAC-51	1952 Section Fifth Floor Hallway	Brown Glue Daubs Debris on Floor	ND
925-JAC-52	**1952 Section Fifth Floor Hallway**	**White Air Cell Pipe Insulation on Floor**	**70% Chrysotile**
925-JAC-53	1952 Section Seventh Floor Hallway	Black Tar Paper on Floor	ND
925-JAC-54	1952 Section Seventh Floor Hallway	White Skim Coat Plaster	ND
925-JAC-55	1952 Section Seventh Floor Hallway	Brown Rough Coat Plaster	ND
925-JAC-56	1952 Section Seventh Floor Hallway	Exposed White Wood Fire Door Core Insulation	ND
925-JAC-57	1952 Section Sixth Floor Entry Area	Brown Paint Material Peeling from Wall on Ground	ND
925-JAC-58	1952 Section Seventh Floor Hallway	White Fiber Wall Material	ND
925-JAC-59	1952 Bradley Building Seventh Floor Front Room	1' x 1' White Fissured Ceiling Tile	ND
925-JAC-60	1952 Bradley Building Seventh Floor	1' x 1' White Dotted Ceiling Tile	ND
925-JAC-61	1952 Bradley Building Seventh Floor Hall	Black Glue Daubs to the 1' x 1' Dotted Ceiling Tiles	ND
925-JAC-62	1952 Bradley Building Seventh Floor Hall	White Blown in Insulation	ND
925-JAC-63	1952 Bradley Building Fifth Floor Connector	12" x 12" Off White Floor Tiles	ND
925-JAC-64	1952 Bradley Building Fifth Floor E509	White Plaster(skim)	ND
925-JAC-65	1952 Bradley Building Fifth Floor E509	White sheetrock	ND
925-JAC-66	1952 Bradley Building Fourth Floor Hall	Brown Plaster (Rough)	ND
925-JAC-67	1952 Bradley Building Third Floor Hall	White Plaster(Skim)	ND
925-JAC-68	1952 Bradley Building Third Floor Hall	Brown Plaster (Rough)	ND

Sample No.	Sample Location	Material Type	Result Total Asbestos %
925-JAC-69	**1952 Bradley Building Third Floor Open Area Room**	**White Magnesium Insulation on Ground**	**25% Amosite 10% Chrysotile**
925-JAC-70	**1952 Bradley Building Third Floor Open Area Room**	**Air Cell Pipe Insulation on Ground**	**20% Chrysotile**
925-JAC-71	**1952 Bradley Building Third Floor Open Area Room**	**12" x 12" Off White Floor Tiles**	**4% Chrysotile**
925-JAC-72	1952 Bradley Building Third Floor Open Area Room	White Sheetrock	ND
925-JAC-73	1952 Bradley Building Fourth Floor	White 1' x 1' Dotted Ceiling Tiles on Ground	ND
925-JAC-74	1952 Bradley Building Second Floor Cafeteria	Brown Glue Daubs on Ground	ND
925-JAC-75	1952 Bradley Building Second Floor Cafeteria	Gray Homosote Boards on Ground	ND
925-JAC-76 Floor	**1952 Bradley Building First Floor Middle Room**	**Brown 9" x 9" Checkerboard Tile**	**8% Chrysotile**
925-JAC-76 Mastic	**1952 Bradley Building First Floor Middle Room**	**Mastic on Brown 9" x 9" Checkerboard Tile**	**5% Chrysotile**
925-JAC-77	1952 Bradley Building First Floor Room to Bath	1' x 1' Pinhole Ceiling Tiles	ND
925-JAC-78	1952 Bradley Building First Floor Entry	Brown Strip Glue on Wood Panel on Ground	ND
925-JAC-79	Nurses Area Second Floor	White Textured Ceiling Paint on Floor	ND
925-JAC-80	Nurses Area Fourth Floor	White Textured Ceiling Paint on Floor	ND
925-JAC-81	**Nurses Area Second Floor**	**White Plaster (Skim)**	**1.8% Chrysotile ***
925-JAC-82	**Nurses Area Second Floor**	**White Plaster (Rough)**	**1.7% Chrysotile ***
925-JAC-83	Nurses Area First Floor	Black Paper Under Damaged Wood Floor	ND
925-JAC-84	North Addition Generator Room	Gray Ceramic Tile Floor Grout	ND
925-JAC-85	North Addition Generator Room	Yellow Ceramic Floor Backing	ND
925-JAC-86	Far Southeast Area First Floor Newer Area	White 2' x 4' Ceiling Tiles	ND
925-JAC-87	Far Southeast Area First Floor Newer Area	Yellow Carpet Mastic on Typical Carpet	< 0.42% Chrysotile*
925-JAC-88	Far Southeast Area First Floor Newer Area	12" x 12" Light Brown Floor Tiles	ND
925-JAC-89	Far Southeast Area First Floor Newer Area	Brown Mastic to 12" x 12" light brown floor tiles	ND
925-JAC-90	Far Southeast Area First Floor Newer Area	Black mastic to 12" x 12" light brown floor tiles	ND

Sample No.	Sample Location	Material Type	Result Total Asbestos %
925-JAC-91	Far Southeast Area First Floor Newer Area	Gray Spray-on Fireproofing	ND
925-JAC-92	Far Southeast Area First Floor Newer Area	White Joint Compound	ND
925-JAC-93	Far Southeast Area First Floor Newer Area	12" x 12" White with Tan Streaks Floor Tile	ND
925-JAC-94	Far Southeast Area First Floor Newer Area	White Sheetrock/Joint Compound	ND
925-JAC-95	Far Southeast Area First Floor Newer Area	White Plaster (Skim)	< 0.74% Chrysotile*
925-JAC-96	**Far Southeast Area First Floor Newer Area**	**White Plaster(Rough)**	**1.5% Chrysotile***

ND = None Detected

*Concentration determined thru TEM Gravimetric Reduction method.

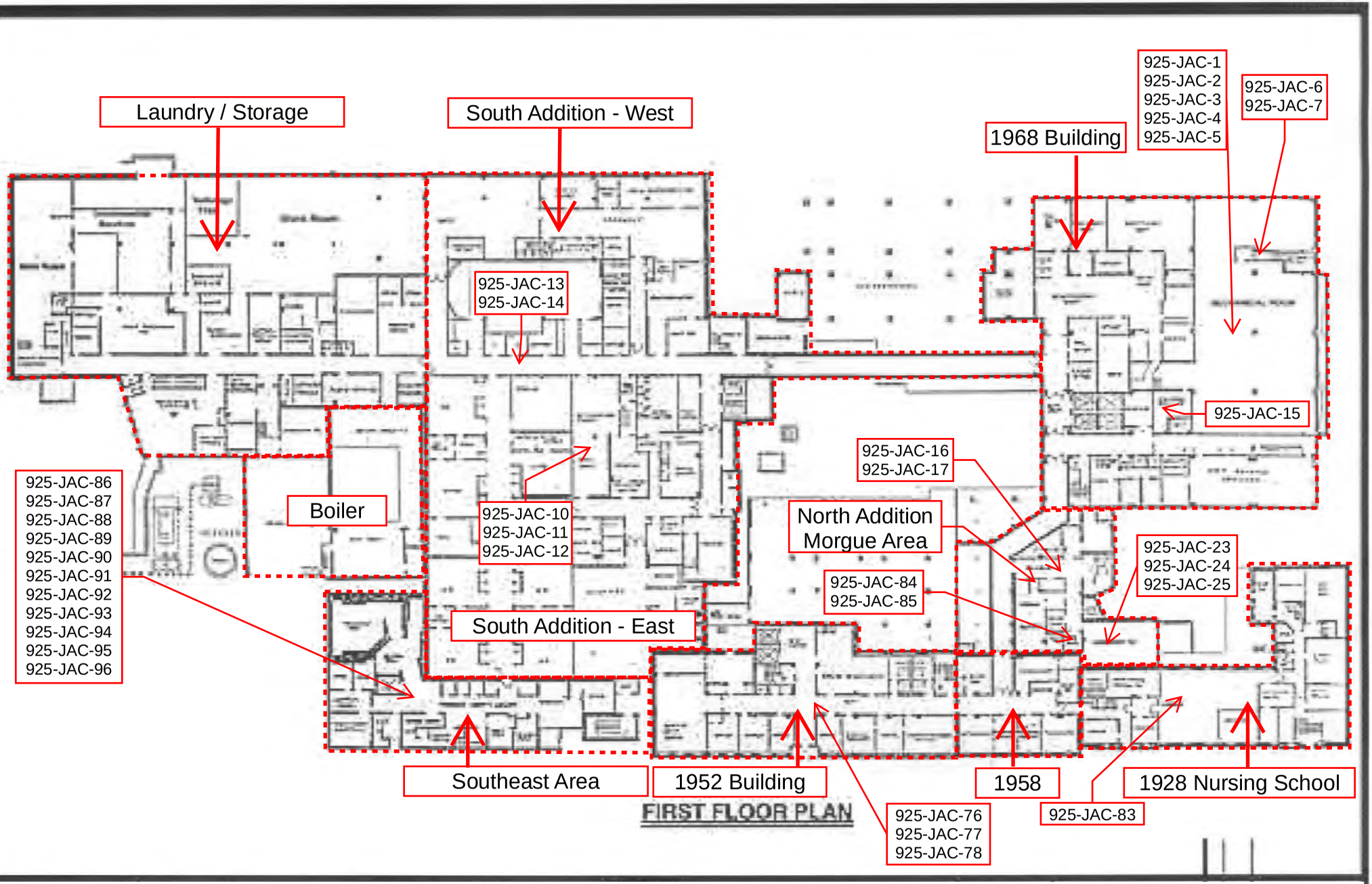
Table 2
PCB/DEHP-Containing Light Ballasts

Type	Estimated Quantity
PCB	0
DEHP	572

Table 3
Mercury-Containing Equipment

Type	Estimated Quantity
U-shaped	17
1' Light Tube	0
2' Light Tube	40
4' Light Tube	437
8' Light Tube	0
High Intensity Discharge (HID) Light	0
Compact Fluorescent Lamp (CFL)	0

Figures



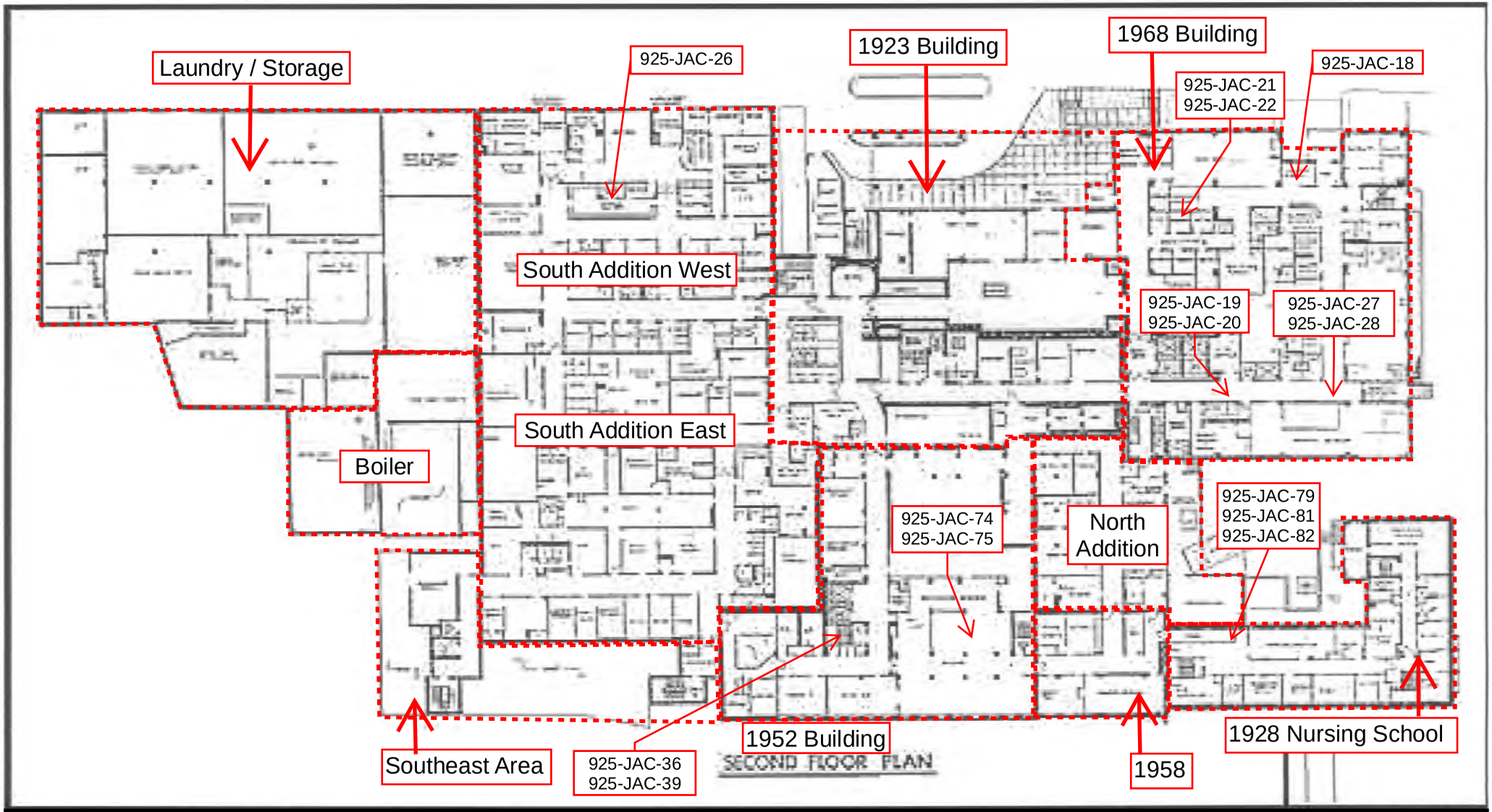
FUSS & O'NEILL
CELEBRATING 90 YEARS

Limited Asbestos and Hazardous Material Survey
Date: October 6, 2014

Former Meriden Hospital
1 King Place
Meriden, CT

Figure 1 First Floor
Asbestos Bulk Sample Locations

Based on floor plans obtained from C.A. White website



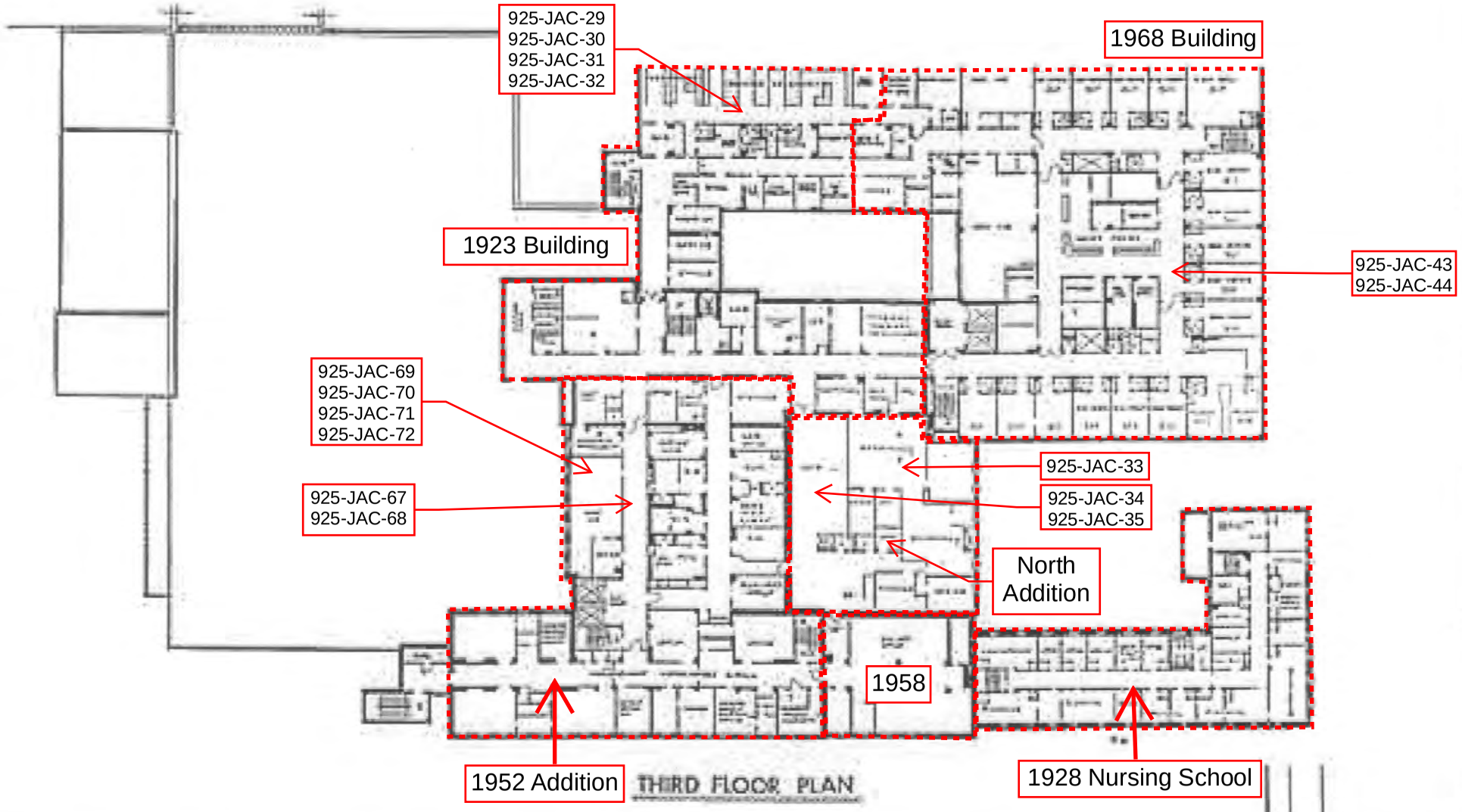
FUSS & O'NEILL
CELEBRATING 90 YEARS

Limited Asbestos and Hazardous Material Survey
Date: October 6, 2014

Former Meriden Hospital
1 King Place
Meriden, CT

Figure 2 Second Floor
Asbestos Bulk Sample Locations

Based on floor plans obtained from C.A. White website



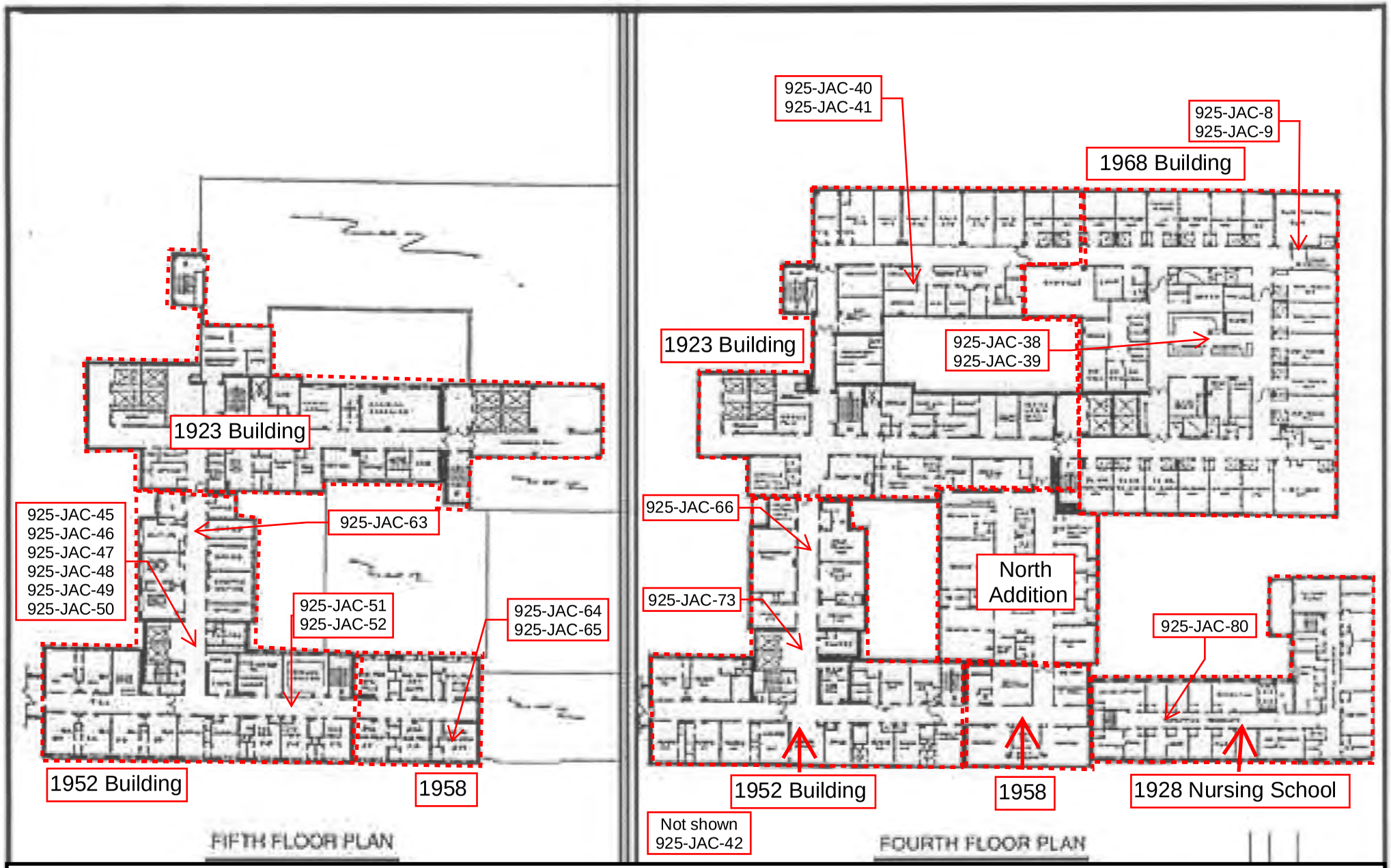
FUSS & O'NEILL
CELEBRATING 90 YEARS

Limited Asbestos and Hazardous Material Survey
Date: October 6, 2014

Former Meriden Hospital
1 King Place
Meriden, CT

Figure 3 Third Floor
Asbestos Bulk Sample Locations

Based on floor plans obtained from C.A. White website



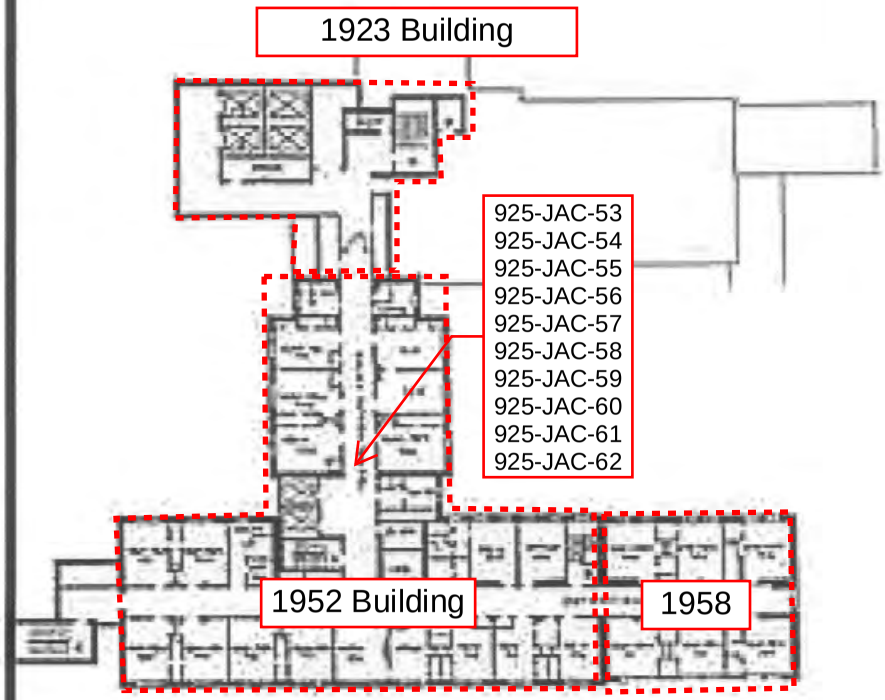
FUSS & O'NEILL
CELEBRATING 90 YEARS

Limited Asbestos and Hazardous Material Survey
Date: October 6, 2014

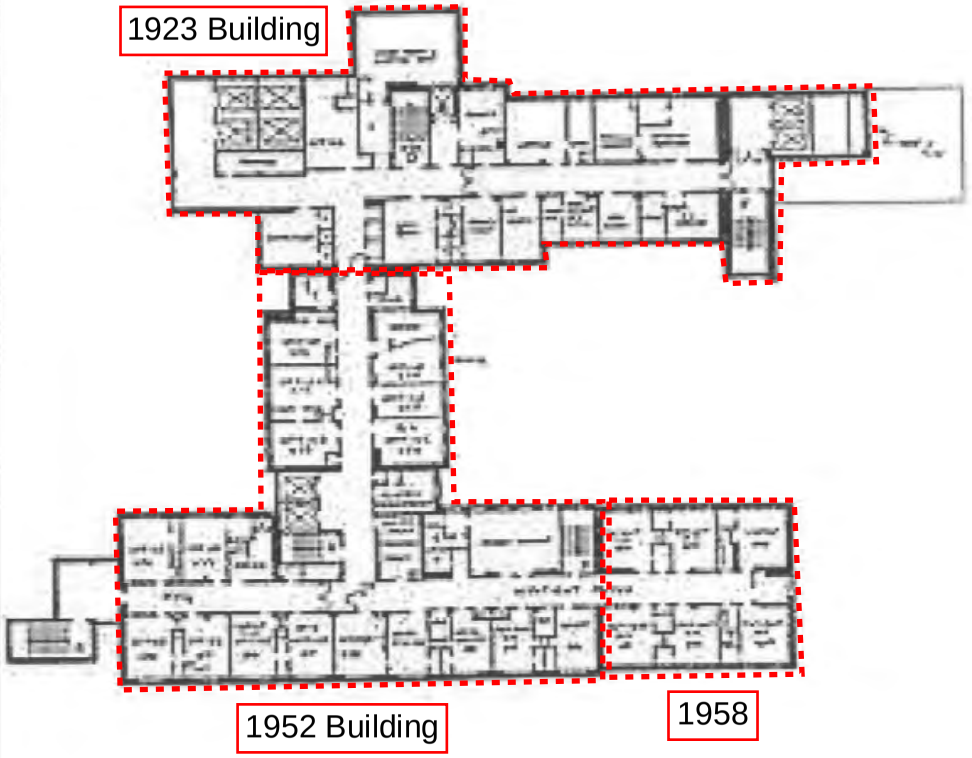
Former Meriden Hospital
1 King Place
Meriden, CT

Figure 4 Fourth and Fifth Floor
Asbestos Bulk Sample Locations

Based on floor plans obtained from C.A. White website



SEVENTH FLOOR PLAN



SIXTH FLOOR PLAN

FUSS & O'NEILL
CELEBRATING 90 YEARS

Limited Asbestos and Hazardous Material Survey
Date: October 6, 2014

Former Meriden Hospital
1 King Place
Meriden, CT

Figure 5 Sixth and Seventh Floor
Asbestos Bulk Sample Locations

Based on floor plans obtained from C.A. White website

FUSS & O'NEILL
EnviroScience, LLC

Appendix A

Limitations

FUSS & O'NEILL
EnviroScience, LLC

APPENDIX A - LIMITATIONS

Former Veteran's Memorial Hospital
1 King Place, Meriden, CT

1. This environmental report has been prepared for the exclusive use of the City of Meriden and is subject to, and is issued in connection with the terms and conditions of the original Agreement and all of its provisions. Any use or reliance upon information provided in this report, without the specific written authorization of the Client and Fuss & O'Neill EnviroScience, LLC (EnviroScience) shall be at the User's individual risk. This report should not be used as an abatement specification. All quantities of materials identified during this inspection are approximate.
2. EnviroScience has obtained and relied upon laboratory analytical results in conducting the inspection. This information was used to form conclusions regarding the types and quantities of ACM that must be managed prior to the clean-up activities that may disturb these materials at the subject property. EnviroScience has not performed an independent review of the reliability of this laboratory data.
3. Unless otherwise noted, only suspect hazardous materials associated within or located on the building (aboveground) were included in this inspection, with exception to the roof which was not included in the scope of work at this particular property. Suspect hazardous materials may exist below the ground surface that were not included in the scope of work of this inspection. EnviroScience cannot guarantee all asbestos or suspect hazardous materials were identified within the areas included in the scope of work. Only visible and accessible areas were included in the scope of work for this inspection.
4. The findings, observations and conclusions presented in this report are limited by the scope of services outlined in our original Agreement August 15, 2014, revised September 3, 2014, which reflects schedule and budgetary constraints imposed by Client. Furthermore, the assessment has been conducted in accordance with generally accepted environmental practices. No other warranty, expressed or implied, is made.
5. The conclusions presented in this report are based solely upon information gathered by EnviroScience to date. Should further environmental or other relevant information be discovered at a later date, the Client should immediately bring the information to the EnviroScience's attention. Based upon an evaluation and assessment of relevant information, EnviroScience may modify the letter report and its conclusions.

FUSS & O'NEILL
EnviroScience, LLC

Appendix B

Inspector Licenses and Accreditations

1004118 01 AV 0.378 **AUTO 19 2 1164 06374-194422 C01-P04124-1

JOHN COLETTI
22 TOPER RD
PLAINFIELD CT 06374-1944

Dear JOHN COLETTI,

Attached you will find your validated certificate for the coming year. Should you have any questions about your certificate renewal, please do not hesitate to write or call:

Department of Public Health
P.O. Box 340308
M.S.#12MQA
Hartford, CT 06134-0308

(860) 509-7603
oplc.dph@ct.gov
www.ct.gov/dph/license

Sincerely,

Jewel Mullen MD MPH

JEWEL MULLEN, MD, MPH, MPA, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

1004118-0004130-0000001-C01-a1d00101-1164-04124

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JOHN COLETTI

VALIDATION NO.	CERTIFICATE NO.	CURRENT THROUGH
03-912338	000399	06/30/15

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE

Jewel Mullen MD MPH
COMMISSIONER

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
ASBESTOS CONSULTANT-INSPECTOR

JOHN COLETTI

CERTIFICATE NO.
000399

CURRENT THROUGH
06/30/15

VALIDATION NO.
03-912338

SIGNATURE

Jewel Mullen MD MPH
COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JOHN COLETTI

VALIDATION NO.	CERTIFICATE NO.	CURRENT THROUGH
03-912338	000399	06/30/15

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE

Jewel Mullen MD MPH
COMMISSIONER

Fuss & O'Neill EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040 – (860) 646-2469

This is to certify that

John Coletti

xxx-xx-6275

has successfully completed the

4 Hr. Asbestos Inspector Refresher

Asbestos Accreditation under TSCA Title II

40 CFR Part 763

John Rowinski, Principal Instructor

Robert L. May, Jr., Training Manager

September 3, 2014
Date of Course

AI-R-09/14-3
Certificate Number

September 3, 2014
Examination Date

September 3, 2015
Expiration Date

1004119 01 AV 0.378 **AUTO 19 2 1164 06374-194422 C01 P04125-1

JOHN A. COLETTI
22 TOPER RD
PLAINFIELD CT 06374-1944

Dear JOHN A. COLETTI,

Attached you will find your validated certificate for the coming year. Should you have any questions about your certificate renewal, please do not hesitate to write or call:

Department of Public Health
P.O. Box 340308
M.S.#12MQA
Hartford, CT 06134-0308

(860) 509-7603
oplc.dph@ct.gov
www.ct.gov/dph/license

Sincerely,

JEWEL MULLEN, MD, MPH, MPA, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

1004119-0004131-0000001 of 0000001-C01-a1d00101-1164-04125

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JOHN A. COLETTI

VALIDATION NO.	CERTIFICATE NO.	CURRENT THROUGH
03-912339	002114	06/30/15

PROFESSION
LEAD INSPECTOR RISK ASSESSOR

SIGNATURE COMMISSIONER

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
LEAD INSPECTOR RISK ASSESSOR

JOHN A. COLETTI

CERTIFICATE NO.
002114

CURRENT THROUGH
06/30/15

VALIDATION NO.
03-912339

SIGNATURE COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JOHN A. COLETTI

VALIDATION NO.	CERTIFICATE NO.	CURRENT THROUGH
03-912339	002114	06/30/15

PROFESSION
LEAD INSPECTOR RISK ASSESSOR

SIGNATURE COMMISSIONER

Fuss & O'Neill EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040 – (860) 646-2469

This is to certify that

John Coletti

xxx-xx-6275

has successfully completed the

8 Hour Lead Inspector Risk Assessor Refresher Course

(Approved per Sec. 20-477, CT General Statutes)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (U.S.C. 1001 and 15 U.S.C. 2615), I certify that this training complies with all applicable requirements of Title IV of TSCA, 40 CFR part 745 and any other applicable Federal, State, or local requirements.

Brian Santos, Principal Instructor

Robert L. May, Jr., Training Manager

February 20 & 25, 2014
Date of Course

LIRA-R-02/14-4
Certificate Number

February 25, 2014
Examination Date

February 25, 2015
Expiration Date

Dear Licensed/Certified Professional,

Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health **(860) 509-7603**
P.O. Box 340308
M.S.#12MQA **http://www.dph.state.ct.us**
Hartford, CT 06134-0308

Sincerely,

JEWEL MULLEN, MD, MPH, MPA, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

0001733 FP **PRSRT T7 0 0664 06040
ANTHONY MALAT
FUSS & O'NEILL ENVIROSCIENCE, LLC
146 HARTFORD RD
MANCHESTER CT 06040

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
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STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - INSPECTOR

LICENSE NO.
000840
CURRENT THROUGH
02/28/15
VALIDATION NO.
03-720793

ANTHONY MALAT

SIGNATURE
COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
ANTHONY MALAT

VALIDATION NO.	LICENSE NO.	CURRENT THROUGH
03-720793	000840	02/28/15

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE
COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
ANTHONY MALAT

VALIDATION NO.	LICENSE NO.	CURRENT THROUGH
03-720793	000840	02/28/15

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE
COMMISSIONER

Fuss & O'Neill EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040 – (860) 646-2469

This is to certify that

Anthony M. Malat

xxx-xx-0333

has successfully completed the

4 Hr. Asbestos Inspector Refresher

Asbestos Accreditation under TSCA Title II

40 CFR Part 763

John Rowinski, Principal Instructor

Robert L. May, Jr., Training Manager

September 3, 2014
Date of Course

AI-R-09/14-8
Certificate Number

September 3, 2014
Examination Date

September 3, 2015
Expiration Date

Fuss & O'Neill EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040 – (860) 646-2469

This is to certify that

Anthony M. Malat

xxx-xx-0333

has successfully completed the

8 Hour Lead Inspector Risk Assessor Refresher Course

(Approved per Sec. 20-477, CT General Statutes)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (U.S.C. 1001 and 15 U.S.C. 2615), I certify that this training complies with all applicable requirements of Title IV of TSCA, 40 CFR part 745 and any other applicable Federal, State, or local requirements.

Brian Santos, Principal Instructor

Robert L. May, Jr., Training Manager

February 20 & 25, 2014
Date of Course

LIRA-R-02/14-8
Certificate Number

February 25, 2014
Examination Date

February 25, 2015
Expiration Date

0001326 FP **PRSRT T7 0 0764 06040
ROBERT W FEINGOLD
FUSS & O'NEILL ENVIROSCIENCE LLC
146 HARTFORD RD
MANCHESTER CT 06040-5992

Dear Licensed/Certified Professional,

Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health **(860) 509-7603**
P.O. Box 340308
M.S.#12MQA **http://www.dph.state.ct.us**
Hartford, CT 06134-0308

Sincerely,

Jewel Mullen, MD

JEWEL MULLEN, MD, MPH, MPA, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
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STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - INSPECTOR

ROBERT W FEINGOLD

CERTIFICATION NO. 000821
CURRENT THROUGH 02/28/15
VALIDATION NO. 03-753404

SIGNATURE

COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
ROBERT W FEINGOLD

VALIDATION NO.	CERTIFICATION NO.	CURRENT THROUGH
03-753404	000821	02/28/15

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE

COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
ROBERT W FEINGOLD

VALIDATION NO.	CERTIFICATION NO.	CURRENT THROUGH
03-753404	000821	02/28/15

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE

COMMISSIONER

Fuss & O'Neill EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040 – (860) 646-2469

This is to certify that

Robert W. Feingold

xxx-xx-4699

has successfully completed the

4 Hr. Asbestos Inspector Refresher

Asbestos Accreditation under TSCA Title II

40 CFR Part 763

John Rowinski, Principal Instructor

Robert L. May, Jr., Training Manager

January 6, 2014
Date of Course

AI-R-01/14-3
Certificate Number

January 6, 2014
Examination Date

January 6, 2015
Expiration Date

0001324 FP **PRSRT T7 0 0764 06040
ROBERT W FEINGOLD
FUSS & O'NEILL ENVIROSCIENCE LLC
146 HARTFORD RD
MANCHESTER CT 06040-5992

Dear Licensed/Certified Professional,

Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health **(860) 509-7603**
P.O. Box 340308
M.S.#12MQA **http://www.dph.state.ct.us**
Hartford, CT 06134-0308

Sincerely,

Jewel Mullen MD MPH MPA

JEWEL MULLEN, MD, MPH, MPA, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

INSTRUCTIONS:

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STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS CERTIFIED BY THIS DEPARTMENT AS A
LEAD INSPECTOR RISK ASSESSOR

ROBERT W FEINGOLD

CERTIFICATION NO. 002245
CURRENT THROUGH 02/28/15
VALIDATION NO. 03-753402

SIGNATURE

Jewel Mullen MD MPH MPA
COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
ROBERT W FEINGOLD

VALIDATION NO.	CERTIFICATION NO.	CURRENT THROUGH
03-753402	002245	02/28/15

PROFESSION
LEAD INSPECTOR RISK ASSESSOR

SIGNATURE

Jewel Mullen MD MPH MPA
COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
ROBERT W FEINGOLD

VALIDATION NO.	CERTIFICATION NO.	CURRENT THROUGH
03-753402	002245	02/28/15

PROFESSION
LEAD INSPECTOR RISK ASSESSOR

SIGNATURE

Jewel Mullen MD MPH MPA
COMMISSIONER

Fuss & O'Neill EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040 – (860) 646-2469

This is to certify that

Robert Feingold

xxx-xx-4699

has successfully completed the

8 Hour Lead Inspector Risk Assessor Refresher Course

(Approved per Sec. 20-477, CT General Statutes)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (U.S.C. 1001 and 15 U.S.C. 2615), I certify that this training complies with all applicable requirements of Title IV of TSCA, 40 CFR part 745 and any other applicable Federal, State, or local requirements.

Brian Santos, Principal Instructor

Robert L. May, Jr., Training Manager

February 20 & 25, 2014
Date of Course

LIRA-R-02/14-6
Certificate Number

February 25, 2014
Examination Date

February 25, 2015
Expiration Date

FUSS & O'NEILL
EnviroScience, LLC

Appendix C

Asbestos Bulk Laboratory Report and Chain of Custody Forms

OrderID: 041428336

041428336

FUSS & O'NEILL EnviroScience, LLC

www.fando.com

146 Hartford Road, Manchester, CT 06040

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

SAMPLE LOG FOR ASBESTOS BULKS

Sheet 1 of 4

Project Name: City of Meriden 1 King Place, Meriden, CT

Project No. 20120232.A7E

Building: Former Hospital at 1 King Place Meriden, CT

Project Manager: Carlos Texidor

Sample ID	Sample Location	Material
925-JAC-1	1968 Building First Floor Northwest Mechanical Room	White Paper Formerly on 12" Wide Duct
925-JAC-2	1968 Building First Floor Northwest Mechanical Room	White Blown-in Insulation on Ground
925-JAC-3	1968 Building First Floor Northwest Mechanical Room	White Pipe Insulation on Ground
925-JAC-4	1968 Building First Floor Northwest Mechanical Room	White Mudded Fitting Insulation on Ground
925-JAC-5	1968 Building First Floor Northwest Mechanical Room	Black Batting Insulation on Fiberglass Pipe on Ground
925-JAC-6	1968 Building Stairwell From Mechanical to Second Floor	Off-White 9" x 9" Floor Tiles (Broken)
925-JAC-7	1968 Building Stairwell From Mechanical to Second Floor	Black Mastic to the 9" x 9" Off-White Floor Tiles
925-JAC-8	1968 Building Stairwell H, at Fourth Floor	White Damaged Plaster (Skim)
925-JAC-9	1968 Building Stairwell H, at Fourth Floor	White Damaged Plaster (Rough)
925-JAC-10	South Addition First Floor Operating Room	White 1' x 1' Ceiling Tiles On Ground
925-JAC-11	South Addition First Floor Operating Room	White Damaged Ceramic Tile Grout (4" x 4")
925-JAC-12	South Addition First Floor Operating Room	White Damaged Ceramic Tile Backing
925-JAC-13	South Addition First Floor Hall	12" x 12" Light Brown Floor Tiles
925-JAC-14	South Addition First Floor Hall	Brown Mastic Associated With 12" x 12" Floor Tiles
925-JAC-15	1968 Building First Floor Engineering Office Area	White 2' x 4' Ceiling Tiles On Ground
925-JAC-16	North Addition First Floor Morgue Area	Off White Sheetrock/Joint Compound
925-JAC-17	North Addition First Floor Morgue Area	White Joint Compound Only
925-JAC-18	1968 Building Second Floor by Main Entrance	1' x 1' White Splined Ceiling Tiles
925-JAC-19	1968 Building Second Floor East Hall	Off-White 9" x 9" Floor Tiles
925-JAC-20	1968 Building Second Floor East Hall	Black Mastic to the Off-White 9" x 9" Floor Tiles
925-JAC-21	1968 Building Second Floor Purple Office Area, Near Main Entrance	White 2' x 4' Ceiling Tiles
925-JAC-22	1968 Building Second Floor Purple Office Area, Near Main Entrance	White 1' x 1' Ceiling Tiles
925-JAC-23	North Addition Incinerator Room, Near Morgue	White Magnesium Insulation On Ground
925-JAC-24	North Addition, Incinerator Room, Near mourge	Off-White Boiler Breeching Insulation On Ground
925-JAC-25	Incinerator Area E12 Boiler	Off White Magnesium Insulation On Ground

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0714285556

FUSS & O'NEILL
EnviroScience, LLC
www.fando.com
146 Hartford Road, Manchester, CT 06040 Phone (860)646-2469 Fax (860) 649-6883

1615-

SAMPLE LOG FOR ASBESTOS BULKS

Project Name: City of Meriden 1 King Place, Meriden, CT Project No. 20120232.A7E

Building: Former Hospital at 1 King Place Meriden, CT Project Manager: Carlos Texidor

Sample ID	Sample Location	Material
925-JAC-26	1968 Section Second Floor East Area Laboratory	2' x 4' White Ceiling Tiles on Ground
925-JAC-27	1968 Section Second Floor Northeast Area Hall	12" x 12" Beige Floor Tiles
925-JAC-28	1968 Section Second Floor Northeast Area Hall	Brown Mastic to 12" x 12' Floor Tiles
925-JAC-29	1968 Section Third Floor Laboratory 3359	White Plaster (Skim)
925-JAC-30	1968 Section Third Floor Laboratory 3359	Brown Plaster (Rough)
925-JAC-31	1968 Section Third Floor Room 3341	White Sheetrock/Joint Compound on Ground
925-JAC-32	1968 Section Third Floor Room 3341	White Joint Compound on Ground
925-JAC-33	North Addition Third Floor Pharmacy Area	Yellow Spray-on Fireproofing
925-JAC-34	North Addition Third Floor Managers Information Corridor	White 1' x 1' Ceiling Tiles
925-JAC-35	North Addition Third Floor Managers Information Corridor	Brown Glue daubs to 1' x 1' Ceiling Tiles
925-JAC-36	1952 Section Second Floor Middle Stairwell	12" x 12" Beige Floor Tiles
925-JAC-37	1952 Section Second Floor Middle Stairwell	Yellow Mastic to 12" x 12" Beige Floor Tile
925-JAC-38	1968Section Fourth Floor Nurses Suite	12" x 12" Beige Floor Tiles
925-JAC-39	1968 Section Fourth Floor Nurses Suite	Black Mastic to 12" x 12" Beige Floor Tile
925-JAC-40	Fourth Floor Baby Observation Area	Black Sheet Vinyl Flooring
925-JAC-41	Fourth Floor East Area Bathroom	White Ceramic Tile Grout 1" x 1"
925-JAC-42	Fourth Floor East Area Bathroom	Yellow Ceramic Tile Backing
925-JAC-43	1968 Section Third floor Hall at 327 and 329	12" x 12" Off White Floor Tile
925-JAC-44	1968 Section Third floor Hall at 327 and 329	Brown Mastic to 12" x 12" Floor Tiles
925-JAC-45	1952 Section Fifth Floor South Hall	White Plaster (Skim)
925-JAC-46	1952 Section Fifth Floor South Hall	Brown Plaster (Rough)
925-JAC-47	1952 Section Fifth Floor South Hall	Red 9" x 9" Floor Tiles
925-JAC-48	1952 Section Fifth Floor South Hall	Black Mastic to the Red 9"x 9" Floor Tiles
925-JAC-49	1952 Section Fifth Floor South Hall	Green 9" x 9' Flor Tiles
925-JAC-50	1952 Section Fifth Floor South Hall	Black Mastic to the Green 9" x 9" Floor Tiles

14 SEP 26 AM 11:

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ENSL
CINNAMINSON, NJ

25-9D

OrderID: 041428336

041428336

FUSS & O'NEILL
EnviroScience, LLC

www.fando.com

146 Hartford Road, Manchester, CT 06040 Phone (860)646-2469 Fax (860) 649-6883

SAMPLE LOG FOR ASBESTOS BULKS

Project Name: City of Meriden 1 King Place, Meriden, CT Project No. 20120232.A7E

Building: Former Hospital at 1 King Place Meriden, CT Project Manager: Carlos Texidor

Sample ID	Sample Location	Material
925-JAC-51	1952 Section Fifth Floor Hallway	Brown Glue Daubs Debris on Floor
925-JAC-52	1952 Section Fifth Floor Hallway	White Air Cell Pipe Insulation on Floor
925-JAC-53	1952 Section Seventh Floor Hallway	Black Tar Paper on Floor
925-JAC-54	1952 Section Seventh Floor Hallway	White Skim Coat Plaster
925-JAC-55	1952 Section Seventh Floor Hallway	Brown Rough Coat Plaster
925-JAC-56	1952 Section Seventh Floor Entry Area	Exposed White Wood Fire Door Core Insulation
925-JAC-57	1952 Section Sixth Floor Entry Area	Brown Paint Material Peeling From Wall on Ground
925-JAC-58	1952 Section Seventh Floor Hallway	White Fiber wall Material
925-JAC-59	1952 Bradley Building Seventh Floor Front Room	1' x 1' White Fissured Ceiling Tie
925-JAC-60	1952 Bradley Building Seventh Floor Hall	1' x 1' White Dotted Ceiling Tile
925-JAC-61	1952 Bradley Building Seventh Floor Hall	Black Glue Daubs to the 1' x 1' Dotted Ceiling Tiles
925-JAC-62	1952 Bradley Building Seventh Floor Hall	White Blown in Insulation
925-JAC-63	1952 Bradley Building Fifth Floor Hall Connector	12" x 12" Off White Floor Tiles
925-JAC-64	1952 Bradley Building Fifth Floor E509	White Plaster (Skim)
925-JAC-65	1952 Bradley Building Fifth Floor E509	White Sheetrock
925-JAC-66	1952 Bradley Building Fourth Floor Hall	Brown Plaster (Rough)
925-JAC-67	1952 Bradley Building Third Floor Hall	White Plaster (Skim)
925-JAC-68	1952 Bradley Building Third Floor Hall	Brown Plaster (Rough)
925-JAC-69	1952 Bradley Building Third Floor Open Area Room	White Magnesium Insulation on Ground
925-JAC-70	1952 Bradley Building Third Floor Open Area Room	Air Cell Pipe Insulation on Ground
925-JAC-71	1952 Bradley Building Third Floor Open Area Room	12" x 12" Off White Floor Tiles
925-JAC-72	1952 Bradley Building Third Floor Open Area Room	White Sheetrock
925-JAC-73	1952 Bradley Building Fourth Floor	White 1' x 1' Dotted Ceiling Tiles on Ground
925-JAC-74	1952 Bradley Building Second Floor Cafeteria	Brown Glue Daubs on Ground
925-JAC-75	1952 Bradley Building Second Floor Cafeteria	Gray Homosote Boards on ground

25-50

OrderID: 041428336

041428336

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 4 of 4

Project Name: City of Meriden 1 King Place, Meriden, CT Project No. 20120232.A7E

Building: Former Hospital at 1 King Place Meriden, CT Project Manager: Carlos Texidor

Sample ID	Sample Location	Material
925-JAC-76	1952 Bradley Building First Floor Middle Room	Brown 9" x 9" Checkerboard Tile
925-JAC-77	1952 Bradley Building First Floor Room To Bath	1' X 1' Pinhole Ceiling Tiles
925-JAC-78	1952 Bradley Building First Floor Entry	Brown Strip Glue on Wood Panel on Ground
925-JAC-79	Nurses Area Second Floor	White Textured Ceiling Paint on Floor
925-JAC-80	Nurses Area Fourth Floor	White Textured Ceiling Paint on Floor
925-JAC-81	Nurses Area Second Floor	White Plaster (Skim)
925-JAC-82	Nurses Area Second Floor	White Plaster (Rough)
925-JAC-83	Nurses Area First Floor	Black Paper Under Damaged Wood Floor
925-JAC-84	North Addition Generator Room	Gray Ceramic Tile Floor Grout
925-JAC-85	North Addition Generator Room	Yellow Ceramic Floor Backing
925-JAC-86	Far Southeast Area First Floor Newer Area	White 2' x 4' Ceiling Tiles
925-JAC-87	Far Southeast Area First Floor Newer Area	Yellow Carpet Mastic on Typical Carpet
925-JAC-88	Far Southeast Area First Floor Newer Area	12" x 12" Light Brown Floor Tiles
925-JAC-89	Far Southeast Area First Floor Newer Area	Brown Mastic to 12" x 12" Light Brown Floor Tiles
925-JAC-90	Far Southeast Area First Floor Newer Area	Black Mastic to 12" x 12 " Light Brown Floor Tiles
925-JAC-91	Far Southeast Area First Floor Newer Area	Gray Spray-on Fireproofing
925-JAC-92	Far Southeast Area First Floor Newer Area	White Joint Compound
925-JAC-93	Far Southeast Area First Floor Newer Area	12" x 12" White with Tan Streaks Floor Tile
925-JAC-94	Far Southeast Area First Floor Newer Area	White Sheetrock/Joint Compound
925-JAC-95	Far Southeast Area First Floor Newer Area	White Plaster (Skim)
925-JAC-96	Far Southeast Area First Floor Newer Area	White Plaster (Rough)

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Analysis Method: ☐ PLM Turnaround Time 24 Hours

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: 9/29/24 Please call EnviroScience if analyses will not be completed for requested t/a/t at (860) 646-2469.

FAX Results to: 888-838-1160 **Email Results to Ctexidor@fando.com** **Do Not Mail Hard Copy Report**
Total # of Samples: 96

10 -CD

F:\P2012\0232\A7E\Deliverables\Report\Chain of Custody Page 4.docx

OrderID: 041428336

041428336

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Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated.

Samples collected by: Coletti **Date:** 9/14 **Time:** AM/PM

Samples Sent by: _____ **Date:** _____ **Time:** _____

Samples Received by: DMB-FX **Date:** 9-26-14 **Time:** 10A

Shipped To: ☐ EMSL State NJ

Method of Shipment: ☐ FedEx

96

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EMSL
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14 SEP 26 AM 11:14

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Andrews, Lisa 041428336

From: John Coletti <JColetti@fando.com>
Sent: Thursday, October 02, 2014 2:54 PM
To: Andrews, Lisa
Cc: Carlos Texidor
Subject: FW: Samples fot EMSL order number 041428336

John Coletti
Senior Environmental Technician
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From: John Coletti
Sent: Thursday, October 02, 2014 1:51 PM
To: 'Landrews@emsl.com'
Cc: Carlos Texidor
Subject: FW: Samples fot EMSL order number 041428336

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From: John Coletti
Sent: Tuesday, September 30, 2014 8:46 AM
To: 'customerservices@emsl.com'
Cc: Carlos Texidor
Subject: Samples fot EMSL order number 041428336

To who it may concern:

The following samples for order number 041428336 from the project at 1 King Place in Meriden that were analyzed by PLM
need to be analyzed by TEM for 24 hour turnaround. Those samples area as follows:

1) 925-JAC-81 (White Skim Plaster)
2) 925-JAC-82 (White Rough Plaster)
3) 925-JAC-87 (Yellow Carpet Mastic)
4) 925-JAC-95 (White Skim Plaster)
5) 925-JAC-96 (Whiter Rough Plaster)

Thank you very much.

John Coletti
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EMSL Order ID:	041428336
Customer ID:	ENVI54
Customer PO:	20120232.A7E
Project ID:	

Attn: Carlos Texidor
Fuss & O'Neill EnviroScience, LLC
146 Hartford Road
Manchester, CT 06040

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Collected:	
Received:	9/26/2014
Analyzed:	10/03/2014

Proj: City of Meriden 1 King Place, Meriden, CT / Former Hospital / 20120232.A7E

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 925-JAC-1 ***Lab Sample ID:*** **041428336-0001**

Sample Description: 1968 Building first floor northwest mechanical rm/White paper formerly on 12" wide duct

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	50%	38%	**12% Chrysotile**	

Client Sample ID: 925-JAC-2 ***Lab Sample ID:*** **041428336-0002**

Sample Description: 1968 Building first floor northwest mechanical rm/White blown-in insulation on ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	90%	10%	None Detected	

Client Sample ID: 925-JAC-3 ***Lab Sample ID:*** **041428336-0003**

Sample Description: 1968 Building first floor northwest mechanical rm/White pipe insulation on ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	72%	22%	**6% Chrysotile**	

Client Sample ID: 925-JAC-4 ***Lab Sample ID:*** **041428336-0004**

Sample Description: 1968 Building first floor northwest mechanical rm/White mudded fitting insulation on ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	65%	27%	**8% Chrysotile**	

Client Sample ID: 925-JAC-5 ***Lab Sample ID:*** **041428336-0005**

Sample Description: 1968 Building first floor northwest mechanical rm/Black batting insulation on fiberglass pipe on ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Black	20%	80%	None Detected	

Client Sample ID: 925-JAC-6 ***Lab Sample ID:*** **041428336-0006**

Sample Description: 1968 Building stairwell from mechanical to 2nd flr/Off-white 9x9 floor tiles (broken)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	96%	**4% Chrysotile**	

Client Sample ID: 925-JAC-7 ***Lab Sample ID:*** **041428336-0007**

Sample Description: 1968 Building stairwell from mechanical to 2nd flr/Black mastic to the 9x9 off-white floor tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Black	0%	95%	**5% Chrysotile**	

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Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 925-JAC-8 ***Lab Sample ID:*** **041428336-0008**

Sample Description: 1968 Building stairwell H, at fourth floor/White damaged plaster (skim)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	100%	None Detected	

Client Sample ID: 925-JAC-9 ***Lab Sample ID:*** **041428336-0009**

Sample Description: 1968 Building stairwell H, at fourth floor/White damaged plaster (rough)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	100%	None Detected	

Client Sample ID: 925-JAC-10 ***Lab Sample ID:*** **041428336-0010**

Sample Description: South addition first floor operating room/White 1x1 ceiling tiles on ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	80%	20%	None Detected	

Client Sample ID: 925-JAC-11 ***Lab Sample ID:*** **041428336-0011**

Sample Description: South addition first floor operating room/White damaged ceramic tile grout (4x4)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	100%	None Detected	

Client Sample ID: 925-JAC-12 ***Lab Sample ID:*** **041428336-0012**

Sample Description: South addition first floor operating room/White damaged ceramic tile backing

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Tan	0%	100%	None Detected	

Client Sample ID: 925-JAC-13 ***Lab Sample ID:*** **041428336-0013**

Sample Description: South addition first floor hall/12x12 light brown floor tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	0%	96%	**4% Chrysotile**	

Client Sample ID: 925-JAC-14 ***Lab Sample ID:*** **041428336-0014**

Sample Description: South addition first floor hall/Brown mastic assoc w/12x12 floor tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	0%	100%	None Detected	

Client Sample ID: 925-JAC-15 ***Lab Sample ID:*** **041428336-0015**

Sample Description: 1968 Building first floor engineering office area/White 2x4 ceiling tiles on ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Tan/White	90%	10%	None Detected	

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Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 925-JAC-16 ***Lab Sample ID:*** **041428336-0016**

Sample Description: North addition first floor morgue area/Off white sheetrock/Joint compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown/White	18%	82%	None Detected	

Client Sample ID: 925-JAC-17 ***Lab Sample ID:*** **041428336-0017**

Sample Description: North addition first floor morgue area/White joint compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	100%	None Detected	

Client Sample ID: 925-JAC-18 ***Lab Sample ID:*** **041428336-0018**

Sample Description: 1968 Building second floor by main entrance/1x1 white splined ceiling tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	80%	20%	None Detected	

Client Sample ID: 925-JAC-19 ***Lab Sample ID:*** **041428336-0019**

Sample Description: 1968 Building second floor east hall/Off-white 9x9 floor tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	96%	**4% Chrysotile**	

Client Sample ID: 925-JAC-20 ***Lab Sample ID:*** **041428336-0020**

Sample Description: 1968 Building second floor east hall/Black mastic to the off-white 9x9 floor tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Black	0%	92%	**8% Chrysotile**	

Client Sample ID: 925-JAC-21 ***Lab Sample ID:*** **041428336-0021**

Sample Description: 1968 Building 2nd floor purple office near entranc/White 2x4 ceiling tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	80%	20%	None Detected	

Client Sample ID: 925-JAC-22 ***Lab Sample ID:*** **041428336-0022**

Sample Description: 1968 Building 2nd floor purple office near entranc/White 1x1 ceiling tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	80%	20%	None Detected	

Client Sample ID: 925-JAC-23 ***Lab Sample ID:*** **041428336-0023**

Sample Description: North adddition incinerator room, near morgue/White magnesium insulation on ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	100%	None Detected	

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Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 925-JAC-24 ***Lab Sample ID:*** **041428336-0024**

Sample Description: North adddition incinerator room, near morgue/ Off-white boiler breeching insulation on ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	45%	55%	None Detected	

Client Sample ID: 925-JAC-25 ***Lab Sample ID:*** **041428336-0025**

Sample Description: Incinerator area E12 boiler/Off-white magnesium insulation on ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	25%	75%	None Detected	

Client Sample ID: 925-JAC-26 ***Lab Sample ID:*** **041428336-0026**

Sample Description: 1968 section second floor east laboratory/2x4 white ceiling tiles on ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	80%	20%	None Detected	

Client Sample ID: 925-JAC-27 ***Lab Sample ID:*** **041428336-0027**

Sample Description: 1968 section second floor northeast area hall/12x12 beige floor tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Beige	0%	96%	**4% Chrysotile**	

Client Sample ID: 925-JAC-28 ***Lab Sample ID:*** **041428336-0028**

Sample Description: 1968 section second floor northeast area hall/Brown mastic to 12x12 floor tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	5%	95%	None Detected	

Client Sample ID: 925-JAC-29 ***Lab Sample ID:*** **041428336-0029**

Sample Description: 1968 section third floor laboratory 3359/White plaster (skim)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	100%	None Detected	

Client Sample ID: 925-JAC-30 ***Lab Sample ID:*** **041428336-0030**

Sample Description: 1968 section third floor laboratory 3359/Brown plaster (rough)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	0%	100%	None Detected	

Client Sample ID: 925-JAC-31 ***Lab Sample ID:*** **041428336-0031**

Sample Description: 1968 section third floor Room 3341/White sheetrock/Joint compound on ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown/White	16%	84%	None Detected	

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Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 925-JAC-32 ***Lab Sample ID:*** **041428336-0032**

Sample Description: 1968 section third floor Room 3341/White joint compound on ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	100%	None Detected	

Client Sample ID: 925-JAC-33 ***Lab Sample ID:*** **041428336-0033**

Sample Description: North addition third floor pharmacy area/Yellow spray-on fireproofing

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Yellow	20%	80%	None Detected	

Client Sample ID: 925-JAC-34 ***Lab Sample ID:*** **041428336-0034**

Sample Description: North addition third floor manager's info corridor/White 1x1 ceiling tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	75%	25%	None Detected	

Client Sample ID: 925-JAC-35 ***Lab Sample ID:*** **041428336-0035**

Sample Description: North addition third floor manager's info corridor/Brown glue daubs to 1x1 ceiling tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	0%	100%	None Detected	

Client Sample ID: 925-JAC-36 ***Lab Sample ID:*** **041428336-0036**

Sample Description: 1952 section second floor middle stairwell/12x12 beige floor tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Beige	0%	100%	None Detected	

Client Sample ID: 925-JAC-37 ***Lab Sample ID:*** **041428336-0037**

Sample Description: 1952 section second floor middle stairwell/Yellow mastic to 12x12 beige floor tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Yellow	0%	100%	None Detected	

Client Sample ID: 925-JAC-38 ***Lab Sample ID:*** **041428336-0038**

Sample Description: 1968 section fourth floor nurses' suite/12x12 beige floor tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Beige	0%	100%	None Detected	

Client Sample ID: 925-JAC-39 ***Lab Sample ID:*** **041428336-0039**

Sample Description: 1968 section fourth floor nurses' suite/Black mastic to 12x12 beige floor tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Black	0%	93%	**7% Chrysotile**	

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Project ID:	

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 925-JAC-40 ***Lab Sample ID:*** **041428336-0040**

Sample Description: Fourth floor baby observation area/Black sheet vinyl flooring

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Black	15%	85%	None Detected	

Client Sample ID: 925-JAC-41 ***Lab Sample ID:*** **041428336-0041**

Sample Description: Fourth floor east area bathroom/White ceramic tile grout 1x1

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	100%	None Detected	

Client Sample ID: 925-JAC-42 ***Lab Sample ID:*** **041428336-0042**

Sample Description: Fourth floor east area bathroom/Yellow ceramic tile backing

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Yellow	0%	100%	None Detected	

Client Sample ID: 925-JAC-43 ***Lab Sample ID:*** **041428336-0043**

Sample Description: 1968 section third floor hall at 327 and 329/12x12 off-white floor tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	100%	None Detected	

Client Sample ID: 925-JAC-44 ***Lab Sample ID:*** **041428336-0044**

Sample Description: 1968 section third floor hall at 327 and 329/Brown mastic to 12x12 floor tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	0%	100%	None Detected	

Client Sample ID: 925-JAC-45 ***Lab Sample ID:*** **041428336-0045**

Sample Description: 1952 section fifth floor south hall/White plaster (skim)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	100%	None Detected	

Client Sample ID: 925-JAC-46 ***Lab Sample ID:*** **041428336-0046**

Sample Description: 1952 section fifth floor south hall/Brown plaster (rough)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	2%	98%	None Detected	

Client Sample ID: 925-JAC-47 ***Lab Sample ID:*** **041428336-0047**

Sample Description: 1952 section fifth floor south hall/Red 9x9 floor tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Red	0%	90%	**10% Chrysotile**	

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EMSL Order ID:	041428336
Customer ID:	ENVI54
Customer PO:	20120232.A7E
Project ID:	

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 925-JAC-48 ***Lab Sample ID:*** **041428336-0048**

Sample Description: 1952 section fifth floor south hall/Black mastic to red 9x9 floor tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Black	0%	95%	**5% Chrysotile**	

Client Sample ID: 925-JAC-49 ***Lab Sample ID:*** **041428336-0049**

Sample Description: 1952 section fifth floor south hall/Green 9x9 floor tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Green	0%	96%	**4% Chrysotile**	

Client Sample ID: 925-JAC-50 ***Lab Sample ID:*** **041428336-0050**

Sample Description: 1952 section fifth floor south hall/Black mastic to green 9x9 floor tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Black	0%	95%	**5% Chrysotile**	

Client Sample ID: 925-JAC-51 ***Lab Sample ID:*** **041428336-0051**

Sample Description: 1952 section fifth floor hallway/Brown glue daubs debris on floor

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	0%	100%	None Detected	

Client Sample ID: 925-JAC-52 ***Lab Sample ID:*** **041428336-0052**

Sample Description: 1952 section fifth floor hallway/White air cell pipe insulation on floor

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	30%	**70% Chrysotile**	

Client Sample ID: 925-JAC-53 ***Lab Sample ID:*** **041428336-0053**

Sample Description: 1952 section seventh floor hallway/Black tar paper on floor

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Black	70%	30%	None Detected	

Client Sample ID: 925-JAC-54 ***Lab Sample ID:*** **041428336-0054**

Sample Description: 1952 section seventh floor hallway/White skim coat plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	100%	None Detected	

Client Sample ID: 925-JAC-55 ***Lab Sample ID:*** **041428336-0055**

Sample Description: 1952 section seventh floor hallway/Brown rough coat plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	0%	100%	None Detected	

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Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 925-JAC-56 ***Lab Sample ID:*** **041428336-0056**

Sample Description: 1952 section seventh floor entry area/Exposed white wood fire door core insulation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	20%	80%	None Detected	

Client Sample ID: 925-JAC-57 ***Lab Sample ID:*** **041428336-0057**

Sample Description: 1952 section sixth floor entry area/Brown paint material peeling from wall on ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	0%	100%	None Detected	

Client Sample ID: 925-JAC-58 ***Lab Sample ID:*** **041428336-0058**

Sample Description: 1952 section seventh floor hallway/White fiber wall material

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	20%	80%	None Detected	

Client Sample ID: 925-JAC-59 ***Lab Sample ID:*** **041428336-0059**

Sample Description: 1952 Bradley Building seventh floor front room/1x1 white fissured ceiling tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	80%	20%	None Detected	

Client Sample ID: 925-JAC-60 ***Lab Sample ID:*** **041428336-0060**

Sample Description: 1952 Bradley Building seventh floor hall/1x1 white dotted ceiling tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	75%	25%	None Detected	

Client Sample ID: 925-JAC-61 ***Lab Sample ID:*** **041428336-0061**

Sample Description: 1952 Bradley Building seventh floor hall/Black glue daubs to the 1x1 dotted ceiling tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Black	0%	100%	None Detected	

Client Sample ID: 925-JAC-62 ***Lab Sample ID:*** **041428336-0062**

Sample Description: 1952 Bradley Building seventh floor hall/White blown in insulation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	95%	5%	None Detected	

Client Sample ID: 925-JAC-63 ***Lab Sample ID:*** **041428336-0063**

Sample Description: 1952 Bradley Building fifth floor hall connector/12x12 off white floor tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	100%	None Detected	

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EMSL Order ID:	041428336
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Project ID:	

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 925-JAC-64 ***Lab Sample ID:*** **041428336-0064**

Sample Description: 1952 Bradley Building Fifth floor E509/White plaster (skim)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	100%	None Detected	

Client Sample ID: 925-JAC-65 ***Lab Sample ID:*** **041428336-0065**

Sample Description: 1952 Bradley Building Fifth floor E509/White sheetrock

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown/White	15%	85%	None Detected	

Client Sample ID: 925-JAC-66 ***Lab Sample ID:*** **041428336-0066**

Sample Description: 1952 Bradley Building fourth floor hall/Brown plaster (rough)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	0%	100%	None Detected	

Client Sample ID: 925-JAC-67 ***Lab Sample ID:*** **041428336-0067**

Sample Description: 1952 Bradley Building third floor hall/White plaster (skim)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	100%	None Detected	

Client Sample ID: 925-JAC-68 ***Lab Sample ID:*** **041428336-0068**

Sample Description: 1952 Bradley Building third floor hall/Brown plaster (rough)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	0%	100%	None Detected	

Client Sample ID: 925-JAC-69 ***Lab Sample ID:*** **041428336-0069**

Sample Description: 1952 Bradley Building third floor open area room/White magnesium insulation in ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	65%	**25% Amosite**	
					10% Chrysotile	

Client Sample ID: 925-JAC-70 ***Lab Sample ID:*** **041428336-0070**

Sample Description: 1952 Bradley Building third floor open area room/Air cell pipe insulation on ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Gray/Tan	70%	10%	**20% Chrysotile**	

Client Sample ID: 925-JAC-71 ***Lab Sample ID:*** **041428336-0071**

Sample Description: 1952 Bradley Building third floor open area room/12x12 off-white floor tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White/Black	0%	96%	**4% Chrysotile**	

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Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 925-JAC-72 ***Lab Sample ID:*** **041428336-0072**

Sample Description: 1952 Bradley Building third floor open area room/White sheetrock

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown/White	18%	82%	None Detected	

Client Sample ID: 925-JAC-73 ***Lab Sample ID:*** **041428336-0073**

Sample Description: 1952 Bradley Building fourth floor/White 1x1 dotted ceiling tiles on ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	80%	20%	None Detected	

Client Sample ID: 925-JAC-74 ***Lab Sample ID:*** **041428336-0074**

Sample Description: 1952 Bradley Building second floor cafeteria/Brown glue daubs on ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	25%	75%	None Detected	

Client Sample ID: 925-JAC-75 ***Lab Sample ID:*** **041428336-0075**

Sample Description: 1952 Bradley Building second floor cafeteria/Gray homosote boards on ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	25%	75%	None Detected	

Client Sample ID: 925-JAC-76-Floor Tile ***Lab Sample ID:*** **041428336-0076**

Sample Description: 1952 Bradley Building first floor middle room/Brown 9x9 checkerboard tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	0%	92%	**8% Chrysotile**	

Client Sample ID: 925-JAC-76-Mastic ***Lab Sample ID:*** **041428336-0076A**

Sample Description: 1952 Bradley Building first floor middle room/Brown 9x9 checkerboard tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Black	0%	95%	**5% Chrysotile**	

Client Sample ID: 925-JAC-77 ***Lab Sample ID:*** **041428336-0077**

Sample Description: 1952 Bradley Building first floor to bath/1x1 pinhole ceiling tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	70%	30%	None Detected	

Client Sample ID: 925-JAC-78 ***Lab Sample ID:*** **041428336-0078**

Sample Description: 1952 Bradley Building first floor entry/Brown strip glue on wood panel on ground

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	0%	100%	None Detected	

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Project ID:	

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 925-JAC-79 ***Lab Sample ID:*** **041428336-0079**

Sample Description: Nurses' area second floor/White textured ceiling paint on floor

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	100%	None Detected	

Client Sample ID: 925-JAC-80 ***Lab Sample ID:*** **041428336-0080**

Sample Description: Nurses' area fourth floor/White textured ceiling paint on floor

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	100%	None Detected	

Client Sample ID: 925-JAC-81 ***Lab Sample ID:*** **041428336-0081**

Sample Description: Nurses' area second floor/White plaster (skim)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
400 PLM Pt Ct	9/27/2014	White	0%	99.25%	**0.75% Chrysotile**	
TEM Grav. Reduction	10/03/2014	White	0.0%	98.2%	**1.8% Chrysotile**	

Client Sample ID: 925-JAC-82 ***Lab Sample ID:*** **041428336-0082**

Sample Description: Nurses' area second floor/White plaster (rough)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
400 PLM Pt Ct	9/27/2014	White	5%	94.50%	**0.50% Chrysotile**	
TEM Grav. Reduction	10/03/2014	White	0.0%	98.3%	**1.7% Chrysotile**	

Client Sample ID: 925-JAC-83 ***Lab Sample ID:*** **041428336-0083**

Sample Description: Nurses' area first floor/Black paper under damaged wood floor

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Black	65%	35%	None Detected	

Client Sample ID: 925-JAC-84 ***Lab Sample ID:*** **041428336-0084**

Sample Description: North addition generator room/Gray ceramic tile floor grout

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Gray	0%	100%	None Detected	

Client Sample ID: 925-JAC-85 ***Lab Sample ID:*** **041428336-0085**

Sample Description: North addition generator room/Yellow ceramic floor backing

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Yellow	80%	20%	None Detected	

Client Sample ID: 925-JAC-86 ***Lab Sample ID:*** **041428336-0086**

Sample Description: Far southeast area first floor newer area/White 2x4 ceiling tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	80%	20%	None Detected	

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Project ID:	

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 925-JAC-87 ***Lab Sample ID:*** **041428336-0087**

Sample Description: Far southeast area first floor newer area/Yellow carpet mastic on typical carpet

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
400 PLM Pt Ct	9/27/2014	Yellow	0%	99.50%	**0.50% Chrysotile**	
TEM Grav. Reduction	10/03/2014	Yellow	0.0%	100%	**<0.42% Chrysotile**	

Client Sample ID: 925-JAC-88 ***Lab Sample ID:*** **041428336-0088**

Sample Description: Far southeast area first floor newer area/12x12 light brown floor tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	0%	100%	None Detected	

Client Sample ID: 925-JAC-89 ***Lab Sample ID:*** **041428336-0089**

Sample Description: Far southeast area first floor newer area/Brown mastic to 12x12 light brown floor tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Brown	0%	100%	None Detected	

Client Sample ID: 925-JAC-90 ***Lab Sample ID:*** **041428336-0090**

Sample Description: Far southeast area first floor newer area/Black mastic to 12x12 light brown floor tiles

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Black	0%	100%	None Detected	

Client Sample ID: 925-JAC-91 ***Lab Sample ID:*** **041428336-0091**

Sample Description: Far southeast area first floor newer area/Gray spray-on fireproofing

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	Gray	27%	73%	None Detected	

Client Sample ID: 925-JAC-92 ***Lab Sample ID:*** **041428336-0092**

Sample Description: Far southeast area first floor newer area/White joint compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	0%	100%	None Detected	

Client Sample ID: 925-JAC-93 ***Lab Sample ID:*** **041428336-0093**

Sample Description: Far southeast area first floor newer area/12x12 white with tan streaks floor tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	9/27/2014				Not Submitted	

Client Sample ID: 925-JAC-94 ***Lab Sample ID:*** **041428336-0094**

Sample Description: Far southeast area first floor newer area/White sheetrock/Joint compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	9/27/2014	White	28%	72%	None Detected	Joint compound not present

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Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 925-JAC-95 ***Lab Sample ID:*** **041428336-0095**

Sample Description: Far southeast area first floor newer area/White plaster (skim)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
400 PLM Pt Ct	9/27/2014	White	0%	99.75%	**0.25% Chrysotile**	
TEM Grav. Reduction	10/03/2014	White	0.0%	100%	**<0.74% Chrysotile**	

Client Sample ID: 925-JAC-96 ***Lab Sample ID:*** **041428336-0096**

Sample Description: Far southeast area first floor newer area/White plaster (rough)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
400 PLM Pt Ct	9/27/2014	White	0%	99.50%	**0.50% Chrysotile**	
TEM Grav. Reduction	10/03/2014	White	0.0%	98.5%	**1.5% Chrysotile**	

Analyst(s):

Danielle Lenoir	PLM (41)
Felix Anusiem	PLM (50) 400 PLM Pt Ct (5)
Jennifer Mattero	TEM Grav. Reduction (5)

Reviewed and approved by:

Stephen Siegel, CIH, Laboratory Manager
or Other Approved Signatory

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

Initial report from: 09/27/201416:23:24

OrderID: 041428816

FUSS & O'NEILL
EnviroScience, LLC

041428816

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146 Hartford Road, Manchester, CT 06040 Phone (860)646-2469 Fax (860) 649-6883

SAMPLE LOG FOR ASBESTOS BULKS

Sheet 1 of 1

Project Name: City of Meriden, 1 King Place, Meriden, Connecticut Project No. 20120232.A7E

Building: 1 King Place, Meriden, Connecticut Project Manager: Carlos Texidor

Sample ID	Sample Location	Material
925-JAC-93	Far Southeast Area First Floor Newer Area	12" x 12" White with Tan Specks Floor tile
925-JAC-93A	Far Southeast Area First Floor Newer Area	Light Brown Mastic to Tiles

RECEIVED
EMSL
CINNAMINSON, NJ
14 OCT -1 AM 7:40

Analysis Method: ☐ PLM Turnaround Time 24 Hours

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: 10/2/14 Please call EnviroScience if analyses will not be completed for requested t/a/t at (860) 646-2469.

FAX Results to: 888-838-1160 **Email Results to Ctexidor@fando.com** **Do Not Mail Hard Copy Report**
Total # of Samples: 2

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated.

Samples collected by: Coletti **Date:** 9/14 **Time:** AM/PM

Samples Sent by: _____ **Date:** _____ **Time:** _____

Samples Received by: VC FY **Date:** 10-1-14 **Time:** 9:25

Shipped To: ☐ EMSL State NJ

Method of Shipment: ☐ FedEx

(2)

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EMSL Order:	041428816
CustomerID:	ENVI54
CustomerPO:	20120232.A7E
ProjectID:	

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

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	10/01/14 9:25 AM
Analysis Date:	10/1/2014
Collected:	

Project: **City of Meriden, 1 King Place, Meriden, Connecticut / 20120232.A7E**

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
925-JAC-93 *041428816-0001*	Far Southeast Area First Floor Newer Area - 12"x12" White with Tan Specks Floor Tile	Tan Non-Fibrous Homogeneous		94% Non-fibrous (other)	**6% Chrysotile**
925-JAC-93A *041428816-0002*	Far Southeast Area First Floor Newer Area - Light Brown Mastic to Tiles	Brown Non-Fibrous Homogeneous		90% Non-fibrous (other)	**10% Chrysotile**

Analyst(s)
Michael Garrity (2)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

Initial report from 10/01/2014 19:50:17

Appendix D

Site Photographs

Photo 1 – Debris pile of various types of pipe insulation

Photo 2 – Deteriorated wall finishings and flooring throughout hallway

Photo 3 – Typical Stairwell with deteriorated painted surfaces and floor tile

Photo 4 – Debris throughout room

Photo 5 – Debris pile on floor

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EnviroScience, LLC

Appendix E

Hazardous Materials Abatement Opinion of Cost Estimate

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Hazardous Materials Abatement Cost Estimate

Hazardous building materials abatement cost estimates are provided below. These cost opinion estimates are for visible and accessible areas only, and does not include Hazardous or non- Hazardous Chemicals. Lump Sum cost are based on current State DAS Contract (Prevailing Wage) rates and are inclusive of typical contractor costs for a normal work schedule (1 shift/day), Monday to Friday. They do not include costs for an expedited work schedule (double shifts/weekends/holidays.

Estimated Hazardous Materials Abatement Costs

Type of Material	Estimated Quantity	Estimated Unit Cost	Total Estimated Cost
Asbestos Materials Make Safe Clean-Up	~33-37 Locations to include Loading Dock	30-40 Days	$161,879.50 (see attached work sheet)
AWP/Work Plan/Project Monitoring/Construction Administration		Lump Sum	$39,325.00
		Subtotal	**$201,204.50**
		~10% Contingency	**$20,120.00**
		Total	**$221,324.50**

The above cost estimates represent abatement costs for hazardous building materials either identified, or assumed/presumed during this inspection only. These cost estimates may be modified as necessary for a specific scope of work.

A A I S

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802 BOSTON POST ROAD

WEST HAVEN, CT 06516

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e-mail: jreilly@aaiscorp.com

DATE:	9/30/2014
CUSTOMER	CITY OF MERIDEN
CONTRACT AWARD #	**10PSX0238**
AAIS JOB #	
PROJECT NAME	1 King Place Meriden
PROJECT NUMBER	
DPW NUMBER	

ASBESTOS	$	161,879.50
MOLD	$	-
LEAD	$	-
OTHER		$0.00
TOTAL	**$**	**161,879.50**

0 ASBESTOS

JOB	1 King Place Meriden	JOB #	0
PROJ #		DPW #	

ITEM	ITEM DESCRIPTION	QTY	UNIT	COST	TOTAL
	ASBESTOS REMOVAL				
AR-001	HEPA VACUUMING	154550	SF	$ 0.24	$ 37,092.00
AR-002	PIPING REMOVAL <6" INCL FITTINGS	4500	LF	$ 1.45	$ 6,525.00
AR-003	PIPING REMOVAL 6"-12" INCL FITTINGS		LF	$ 2.17	$ -
AR-004	PIPING REMOVAL >12" INCL FITTINGS		LF	$ 2.89	$ -
AR-005	GLOVE BAG FIRST 25		EA	$ 20.23	$ -
AR-006	GLOVEBAG 25-50		EA	$ 17.34	$ -
AR-007	GLOVEBAG OVER 50		EA	$ 14.45	$ -
AR-008	REMOVE EQUIPMENT INSULATION		SF	$ 2.89	$ -
AR-009	REMOVE HVAC DUCT INSULATION		SF	$ 2.89	$ -
AR-010	REMOVE HVAC DUCT FLEX CONN		SF	$ 2.17	$ -
AR-011	FLOOR TILE AND MASTIC		SF	$ 0.87	$ -
AR-012	FLOOR TILE (NO MASTIC)	2800	SF	$ 0.43	$ 1,204.00
AR-013	SPRAY ON FIREPROOFING		SF	$ 1.73	$ -
AR-014	PLASTER LATHE AND BLACK IRON		SF	$ 2.17	$ -
AR-015	ACCOUSTIC OR METAL PAN CEILING INCL GRID		SF	$ 1.45	$ -
AR-016	ACCOUSTIC PANELS CLEAN GRID FOR REUSE		SF	$ 1.16	$ -
AR-017	ACCOUSTIC PLASTER FINISH MTL (SCRAPE)		SF	$ 1.88	$ -
AR-018	PATCH/SEAL DAMAGED INSULATION		SF	$ 0.87	$ -
AR-019	CONTAMINATED SOIL (2" DEPTH)		SF	$ 1.16	$ -
AR-020	TRANSITE MATERIAL		SF	$ 0.72	$ -
AR-021	ROOFING OR FLASHING	650	SF	$ 1.01	$ 656.50
AR-022	UNDERGROUND PIPE OR INSULATION (HAND EXCAVATION)		LF	$ 8.67	$ -
AR-023	CARPET OVER TILE		SF	$ 0.72	$ -
AR-024	WALL BASE AND MASTIC		LF	$ 0.72	$ -
AR-025	REMOVAL OF DRYWALL PARTITIONS INCL FRAMING		SF	$ 0.58	$ -
AR-026	REMOVAL OF CMU WALL		SF	$ 1.45	$ -
AR-027	PREP WORK AREA	62900	SF	$ 0.97	$ 61,013.00
AR-028	SOLID BARRIER OR ACCESS TUNNELS 2X4 AND PLYWOOD		SF/SA	$ 0.72	$ -
AR-029	SELECTIVE DEMOLITION TO ACCESS ACM		SF	$ 0.87	$ -
AR-030	REMOVAL OF FLOOR LEVELING MATERIAL		SF	$ 0.58	$ -
	MISCELLANEOUS ITEMS				
MI-001	MOBILIZATION (1 PER WORK AREA)	22	EA	$ 250.00	$ 5,500.00
MI-002	WORKER DECON (1 PER WORK AREA)	22	EA	$ 250.00	$ 5,500.00
MI-005	TEMP ELECTRICAL CONNECTION (LICENSED ELECTRICIAN) cost +10%		EA	$ 250.00	$ -
MI-006	TEMP GENERATOR cost +10%	800	DY	$ 20.00	$ 16,000.00
MI-007	ACM DISPOSAL (INCLUDES TRANSPORTATION) cost +10%	300	CY	$ 55.00	$ 16,500.00
MI-008	HAZARDOUS WASTE DISPOSAL (INCLUDES TRANS) cost +10%		CY	$ 250.00	$ -
MI-009	CONSTRUCTION DEBRIS DISPOSAL (INCLUDES TRANS) cost +10%		CY	$ 25.00	$ -
MI-010	STANDBY ABATEMENT PERSONELL (EA LICENSED WORKER)		HR	$ 26.00	$ -
MI-013	FIXED SCAFFOLDING cost +10%		SF	$ 10.00	$ -
MI-014	EXCAVATION TO EXPOSE UNDERGROUND PIPE cost + 10%		CY	$ 15.00	$ -
MI-015	PROJECT NOTIFICATION (1% OF ABATEMENT COST) cost + 10%	1700	EA	1.10	$ 1,870.00
MI016	PROJECT BOND (3% OF TOTAL CONTRACT) cost +10%		EA	1.10	$ -
	REWORK ITEMS				$ -
RW-001	REINSULTE PIPE 1" THICK FIBERGLASS ASJ		SF	$ 2.71	$ -
RW-002	REINSULTE PIPE 11/2" THICK FIBERGLASS ASJ		SF	$ 3.61	$ -
RW-003	REINSULTE PIPE 2" THICK FIBERGLASS ASJ		SF	$ 3.61	$ -
RW-004	REINSULATE PIPE FITTING 1" THICK		EA	$ 4.34	$ -
RW-005	REINSULATE PIPE FITTING 11/2" THICK		EA	$ 5.43	$ -
RW-006	REINSULATE PIPE FITTING 2" THICK		EA	$ 6.50	$ -
RW-007	REINSULATE MECHANICAL EQUIPMENT 3PCF 2' THICK		SF	$ 3.50	$ -
RW-008	REINUSLATE HVAC DUCT (WRAP) 11/2 " .75 PCF		SF	$ 2.50	$ -
RW-009	REINUSLATE HVAC DUCT(BOARD) 3PCF 11/2 THICK		SF	$ 6.00	$ -
RW-010	REPLACE FLEX CONNECTORS		SF	$ 7.23	$ -
	ESCALATION FACTORS				
EF-1	WORK SURFACES 10-20 FEET HIGH	$ 23,460.00	15%		$ 3,519.00
EF-2	WORK SURFACES OVER 20 FEET HIGH	$ -	30%		$ -
EF-3	NON REGULAR WORK HOURS 6:00PM-6:00AM AND WEEKEND	$ -	30%		$ -
EF-4	EMERGENCY RESPONSE < 24 HRS	$ -	30%		$ -
EF-5	CONFINED SPACE WORK	$ -	15%		$ -
EF-6	REMOVAL OF MULTIPLE LAYERS OF TILE (EACH ADDIT LAYER)	$ -	50%		$ -
EF-7	REMOVE ON LIVE STEAM EQUIPMENT	$ -	25%		$ -
EF-8	EXTERIOR WORK	$ -	30%		$ -
	MISCELLANEOUS ITEMS				
	DECONTAMINATE MISCELANEOUS ITEMS		1	$ 6,500.00	$ 6,500.00
				$ -	$ -
				$ -	$ -
				$ -	$ -
				$ -	$ -
				$ -	$ -
				$ -	$ -
				$ -	$ -
	TOTAL				**$ 161,879.50**