

ADDENDUM #03

то

INVITATION TO BID #01

March 16, 2018

WESTERN CONNECTICUT STATE UNIVERSITY RENOVATIONS TO HIGGINS HALL & HIGGINS ANNEX

STATE PROJECT NO: BI-RD-290-CMR

The Contract Documents are modified and/or supplemented as follows and should be included in the Subcontractor's lump sum bid as it relates to their Bid Package Scope of Work:

- 1. All bidders should review and incorporate the attached existing drawings as per the following list.
 - 1949 Higgins Hall
 - 1958 Higgins Hall Addition
 - 1967 Annex Hall Set 1 & 2
 - 1972 Higgins Annex As-Builts
 - 1987 Volatile Chemical Storage Addition
 - 1991 Higgins Addition Lecture Hall Renovation
 - 1991 Higgins Chemistry Room Renovations
 - 1999 Midtown Campus Underground Infrastructure Renovations
 - 2009 Annex HVAC Improvement
 - 2011 Annex Second Floor Lecture Hall
 - Higgins Roof Replacement and Masonry Repairs
 - Higgins Facade Repairs
 - Higgins Record Room Renovation
 - Annex Learning Emporium Set
 - Midtown Campus Topo Based on HH
- 2. All bidders should review incorporate the attached additional ATC investigative report dated 6/22/17 of the Higgins Annex and Higgins ANNEX ROOF.
- 3. All bidders on Bid Package #4.1 Masonry should make the following revisions to their bid package scope of work:

<u>ADD</u> the following new item(s):

69. This Subcontractor is responsible to provide all cutting and patching for MEP trade square and/or rectangular openings 10"x10" or greater than 100 square inches in all masonry walls with the appropriate structural support. Coordinate with Mechanical Drawings.

4. All bidders on Bid Package #9.1 – Drywall and Carpentry should make the following revisions to their bid package scope of work:

WCSU – RENOVATIONS TO HIGGINS HALL AND HIGGINS ANNEX ADDENDUM #03 TO INVITATION TO BID #01

Under Item 2, insert the following additional Specifications Sections:

Division 07 / Sections:	Thermal and Moisture Protection	
09 84 13	Fixed Sound Absorptive Panels	

Fixed Sound Absorptive Panels are reallocated to Bid Packages #9.1's responsibility.

5. All bidders on Bid Package #9.4 – Acoustical Ceilings should make the following revisions to their bid package scope of work:

DELETE the following item(s):

A. Delete **Specifications Section 09 84 13 – Fixed Sound Absorptive Panels** from Item #2 in the bid package scope of work. This work is being assigned to the BP #9.1 – Drywall & Carpentry Contractor.

END ADDENDUM #03 TO INVITATION TO BID #01



June 22, 2017

Mr. Peter Simmons State of Connecticut Department of Administrative Services Division of Construction Services 450 Columbus Boulevard Hartford, CT 06103

Re: Asbestos Inspection – Windows and Roofing Higgins Hall Annex Western Connecticut State University Danbury, Connecticut Project BI-RD-290 Building 07399 ATC Project 2257317021

Dear Mr. Simmons:

Please find enclosed the Asbestos Inspection Report for Higgins Hall Annex, Western Connecticut State University, Danbury, Connecticut.

Should you have any questions concerning this report, do not hesitate to contact me at 860 282-9924 ext. 1123.

Sincerely,

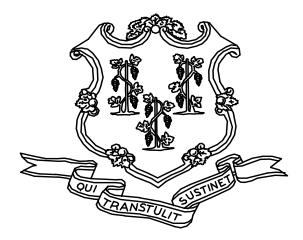
ATC Group Services LLC

Edward P. Fennell Jr., P.E. Division Manager For ATC Group Services LLC Direct Line +1 860 282 9924 x1123 Email: edward.fennell@atcassociates.com Encl: Asbestos Inspection Report Higgins Hall Annex WCSU

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ASBESTOS INSPECTION REPORT

WINDOWS AND ROOF HIGGINS HALL ANNEX WESTERN CONNECTICUT STATE UNIVERSITY DANBURY, CONNECTICUT BUILDING 07399 PROJECT BI-RD-290



STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES DIVISION OF CONSTRUCTION SERVICES

Prepared by:

ATC GROUP SERVICES LLC 290 Roberts Street - Suite 301 East Hartford, CT 06108

ATC PROJECT 2257316083

JUNE 22, 2017

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1.0 INTRODUCTION

ATC Group Services LLC (ATC) of East Hartford, Connecticut was retained by the State of Connecticut, Department of Administrative Services, Division of Construction Services (CTDCS) to conduct a prerenovation inspection in Higgins Hall Annex at Western Connecticut State University in Danbury, Connecticut. The scope of the asbestos inspection included: surveying, sampling, and testing of suspect building materials.

The asbestos inspection was conducted by Ms. Alisa Werst on June 15, 2017. Ms. Werst is a State of Connecticut, Department of Public Health (CTDPH) licensed asbestos inspector (CTDPH license number 000736). The survey was performed as a walk-through visual inspection, combined with the collection and analysis of bulk samples.

2.0 ASBESTOS-CONTAINING MATERIALS SURVEY

The survey was limited to suspect window caulking and glazing, and roofing materials.

2.1 ASBESTOS BULK SAMPLE COLLECTION/ANALYSIS PROCEDURE

Building materials considered suspect ACM were inspected and assessed using the methods presented in the United States Environmental Protection Agency AHERA regulations (40 CFR Part 763) and NESHAP regulations (40 CFR Part 61).

ATC collected bulk samples of building materials utilizing a sampling strategy that correlated with 40 CFR 763.86 as follows:

- (a) *Surfacing materials.* An accredited inspector shall collect, in a statistically random manner that is representative of the homogeneous area, bulk samples from each homogeneous area of friable surfacing material that is not assumed to be ACM, and shall collect the samples as follows:
 - (1) At least three bulk samples shall be collected from each homogeneous area that is $1,000 \text{ ft}^2$ or less, except as provided in 40 CFR Part 763.87(c)(2).
 - (2) At least five bulk samples shall be collected from each homogeneous area that is greater than 1,000 ft² but less than or equal to 5,000 ft², except as provided in 40 CFR Part 763.87(c)(2).
 - (3) At least seven bulk samples shall be collected from each homogeneous area that is greater than 5,000 ft², except as provided in 40 CFR Part 763.87(c)(2).
- (b) *Thermal system insulation.*
 - (1) Except as provided in paragraphs (b)(2) through (4) of this section and 40 CFR Part 763.87(c), an accredited inspector shall collect, in a randomly distributed manner, at least three bulk samples from each homogeneous area of thermal system insulation that is not assumed to be ACM.
 - (2) Collect at least one bulk sample from each homogeneous area of patched thermal system insulation that is not assumed to be ACM if the patched section is less than 6 linear or square feet.
 - (3) In a manner sufficient to determine whether the material is ACM or not ACM, collect bulk samples from each insulated mechanical system that is not assumed to be ACM where

cement or plaster is used on fittings such as tees, elbows, or valves, except as provided under 40 CFR Part 763.87(c)(2).

- (4) Bulk samples are not required to be collected from any homogeneous area where the accredited inspector has determined that the thermal system insulation is fiberglass, foam glass, rubber, or other non-ACM.
- (c) *Miscellaneous materials.* In a manner sufficient to determine whether material is ACM or not ACM, an accredited inspector shall collect bulk samples from each homogeneous area of friable or non-friable miscellaneous material that is not assumed to be ACM.

The bulk samples collected during the survey were analyzed by EMSL Analytical, Inc. (NVLAP #101048-9) located in New York, New York. The bulk samples were analyzed by Polarized Light Microscopy (PLM) with dispersion staining via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s). Utilizing PLM, the microscopist is able to identify and distinguish between asbestos group minerals and other fibrous materials such as cellulose, mineral wool, fiberglass, or synthetic fibers. The quantities of each of these substances is estimated based on the procedures defined in the above-cited reference and are reported as a percentage.

3.0 ASBESTOS-CONTAINING MATERIALS

The results of PLM laboratory analysis indicated that asbestos-containing materials (ACM) were identified. ACM are those materials that contain greater than 1% asbestos, and are as follows:

• Window Caulking

Previous inspection has found the following materials to be ACM:

- 9"x9" Dark Brown Floor Tile and Associated Black Mastic
- 9"x9" Green Floor Tile and Associated Black Mastic
- 12"x12" Tan Floor Tile Room 202
- 12"x12" Brown Floor Tile Room 202
- 12"x12" Brown/Tan Floor Tile and Associated Black Mastic
- 6"x18" Brown Border Tile and Associated Black Mastic
- Black Mastic on Raised Platform (Tiered Seating) Room 202
- 2'x2' Suspended Ceiling Tile
- Pipe and Pipe Fitting Insulation (1949 Building)
- Pipe Fitting Insulation (1958 Building and 1969 Annex Building)
- HVAC Duct Insulation Pin Adhesive (1969 Annex)
- Gray Countertops
- Dark Brown Cove Base Adhesive
- Lab Hood and Cabinet Panels
- Gray Caulking on Cap Stone Joints (1949 Building)
- Black Cap Sealant (1949 Building)
- Black Tar Paper (1958 Building)
- Exterior Wall Flashing and Flashing Tar (1958 Building)

The remaining materials which were sampled and tested were found to contain no detectable amounts of asbestos. Specifically, the following materials throughout the building were determined to be non-ACM:

- Tectum Deck
- Brown Resin Paper
- 4-Ply Built-up Roof Felts
- 4-Ply Built-up Roof Tar
- Silver Paint Coating
- Black Flashing
- Light Weight Concrete on Tectum Deck
- Roof Patch Tile
- Roof Patch Tar
- Hot Patch 4-Ply Built-up Roofing
- Hot Patch 4-Ply Built-up Roofing Tar
- Hot Patch Brown Rosin Paper
- Black Tar
- Roof Patch
- Fiberboard
- Gray Cap Caulk
- Roof Drain Flashing
- Roof Drain Flashing Tar
- Roof Drain Caulk
- Flashing Membrane
- Flashing Tar
- Black Tar Flashing Patch
- Dark Gray Cap Caulk
- Lightning Rod Pitch Pocket

Refer to Section 6.0, Bulk Sample Summary of Suspect Materials, for suspect materials that were identified and sampled. This table includes the available building testing history in addition to current testing.

4.0 DISCUSSION AND RECOMMENDATIONS

EPA regulations require the removal of Regulated Asbestos-Containing Materials (RACM) prior to renovation or demolition activities. RACM is defined as (a) Friable ACM, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation activities. The CTDPH defines "asbestos abatement" as removal, encapsulation, enclosure, renovation, repair, demolition, or other disturbance of ACM but does not include activities which are related to (A) the removal or repair of asbestos cement pipe and are performed by employees of a water company as defined in section 25-32a, or (B) the removal of non-friable ACM found exterior to a building or structure other than material defined as RACM in 40 CFR 61, the National Emission Standards for Hazardous Air Pollutants (NESHAP). Based upon these definitions, ACM identified in the building requires removal prior to renovation, demolition, or disturbance. The State of Connecticut Department of Environmental Protection (CTDEP) regulations require the proper disposal of all ACM, regardless of categorization.

5.0 LIMITATIONS

While ATC attempted to identify all ACM that could potentially be disturbed during renovation activities, some materials could not be sampled without destructive testing and some areas were inaccessible. Suspect materials inside walls, above fixed ceilings, and under flooring could not be accessed without demolition of finishes. Invasive testing should be conducted prior to renovation activities which may disturb ACM building components that are concealed.

Materials tested were identified to ATC by others and the scope of this inspection was limited to those materials. As with all such assessments, the results of the sampling represent conditions found on the date of the survey and may not represent conditions found at other times. Additionally, this assessment was limited with respect to the specific parameters indicated above and should not be construed to be a comprehensive evaluation or a definitive representation of conditions within the facility. The information presented in this report is intended to be used as a guide to evaluate the need for further investigation or the need for modifications to the processes or procedures surveyed.

6.0 BULK SAMPLE SUMMARY OF SUSPECT MATERIALS

Sample Number	Location	Material	Asbestos (% Type)
032910-1A	Room A215	2'x 2' Suspended Ceiling Tile (Fissured)	NAD
032910-1B	Room A215	2'x 2' Suspended Ceiling Tile (Fissured)	NAD
032910-2A	Room A215	4" Black Cove Base	NAD
032910-2B	Room A215	4" Black Cove Base	NAD
032910-3A	Room A215	4" Black Cove Base Adhesive	NAD
032910-3B	Room A215	4" Black Cove Base Adhesive	NAD
032910-4A	Room A215	Door Caulk (Inside Classroom)	NAD
032910-4B	Room A215	Door Caulk (Inside Classroom)	NAD
032910-5A	Room A215	Ceiling Tile Glue Daub	<1% CH
032910-5B	Room A215	Ceiling Tile Glue Daub	<1% CH
032910-6A	Room A215	Gypsum Board (Wall)	NAD
032910-6B	Room A215	Gypsum Board (Wall)	NAD
032910-7A	Room A214	Joint Compound	NAD
032910-7B	Room A214	Joint Compound	NAD
032910-8A	Room A215	Pipe Insulation	NAD
032910-8B	Room A215	Pipe Insulation	NAD
032910-8C	Room A215	Pipe Insulation	NAD
032910-9A	Room A215	Pipe Insulation Wrap	NAD
032910-9B	Room A215	Pipe Insulation Wrap	NAD
032910-9C	Room A215	Pipe Insulation Wrap	NAD

Sample Number	Location	Material	Asbestos (% Type)
032910-10A	Room A214	Mudded Pipe Fitting Insulation	NAD
032910-10B	Room A214	Mudded Pipe Fitting Insulation	NAD
032910-10C	Room A214	Mudded Pipe Fitting Insulation	NAD
032910-11A	Room A215	Lab Bench Top Adhesive	NAD
032910-11B	Room A215	Lab Bench Top Adhesive	NAD
032910-12A	Room A214	Lab Hood Panel	35% CH
032910-12B	Room A214	Lab Hood Panel	NA/PS
032910-13A	Room A215	Lab Bench Top	NAD
032910-13B	Room A215	Lab Bench Top	NAD
040810-1A	Room A214	2'x 2' Suspended Ceiling Tile (Fissured)	NAD
040810-1B	Room A214	2'x 2' Suspended Ceiling Tile (Fissured)	NAD
040810-2A	Room A214	4" Black Cove Base	NAD
040810-2B	Room A214	4" Black Cove Base	NAD
040810-3A	Room A214	4" Black Cove Base Adhesive	<1% CH
040810-3B	Room A214	4" Black Cove Base Adhesive	<1% CH
040810-4A	Room A214	Door Caulk (Inside Room)	NAD
040810-4B	Room A214	Door Caulk (Inside Room)	NAD
040810-5A	Room A214	Ceiling Tile Glue Daub	<1% CH
040810-5B	Room A214	Ceiling Tile Glue Daub	<1% CH
040810-6A	Room A214	Gypsum Board (Wall)	NAD

Sample Number	Location	Material	Asbestos (% Type)
040810-6B	Room A214	Gypsum Board (Wall)	NAD
040810-7A	Room A214	Lab Bench Top Adhesive	NAD
040810-7B	Room A214	Lab Bench Top Adhesive	NAD
040810-8A	Room A214	Lab Bench Top	NAD
040810-8B	Room A214	Lab Bench Top	NAD
040511-HH-1A	Boiler Room	Pipe Insulation	NAD
040511-HH-1B	Boiler Room	Pipe Insulation	NAD
040511-HH-1C	Boiler Room	Pipe Insulation	NAD
040511-HH-2A	Boiler Room	Pipe Insulation Wrap	NAD
040511-HH-2B	Boiler Room	Pipe Insulation Wrap	NAD
040511-HH-2C	Boiler Room	Pipe Insulation Wrap	NAD
040511-HH-3A	Boiler Room	Cementitious Boiler Access Panel Insulation	NAD
040511-HH-3B	Boiler Room	Cementitious Boiler Access Panel Insulation	NAD
040511-HH-3C	Boiler Room	Cementitious Boiler Access Panel Insulation	NAD
040511-HH-4A	Boiler Room	Boiler Brick	NAD
040511-HH-4B	Boiler Room	Boiler Brick	NAD
040511-HH-4C	Boiler Room	Boiler Brick	NAD
040511-HH-5A	Boiler Room	Boiler Insulation Outside Brick	NAD
040511-HH-5B	Boiler Room	Boiler Insulation Outside Brick	NAD
040511-HH-5C	Boiler Room	Boiler Insulation Outside Brick	NAD

Sample Number	Location	Material	Asbestos (% Type)
040511-HH-6A	Boiler Room	Rope Gasket on Circular Vent	NAD
040511-HH-6B	Boiler Room	Rope Gasket on Circular Vent	NAD
040511-HH-7A	Boiler Room	Fluffy White Interior Boiler Insulation	NAD
040511-HH-7B	Boiler Room	Fluffy White Interior Boiler Insulation	NAD
040511-HH-7C	Boiler Room	Fluffy White Interior Boiler Insulation	NAD
040511-HH-8A	Boiler Room	Mudded Pipe Fitting Insulation	NAD
040511-HH-8A	Boiler Room	Mudded Pipe Fitting Insulation	NAD
040511-HH-8A	Boiler Room	Mudded Pipe Fitting Insulation	NAD
040511-HH-9A	Boiler Room	BRW Piping Gasket	35% CH
040511-HH-10A	Boiler Room	Rope Gasket on Boiler Seam	NAD
040511-HH-10B	Boiler Room	Rope Gasket on Boiler Seam	NAD
040511-HH-11A	Boiler Room	Damaged Mudded Pipe Fitting Insulation (West Side)	NAD
040511-HH-11B	Boiler Room	Damaged Mudded Pipe Fitting Insulation (West Side)	NAD
040511-HH-11C	Boiler Room	Damaged Mudded Pipe Fitting Insulation (West Side)	NAD
040511-HH-12A	Boiler Room	Heat Exchanger Insulation (Outer)	NAD
040511-HH-12B	Boiler Room	Heat Exchanger Insulation (Outer)	NAD
040511-HH-12C	Boiler Room	Heat Exchanger Insulation (Outer)	NAD
040511-HH-13A	Boiler Room	Heat Exchanger Insulation (Inner)	NAD
040511-HH-13B	Boiler Room	Heat Exchanger Insulation (Inner)	NAD
040511-HH-13C	Boiler Room	Heat Exchanger Insulation (Inner)	NAD

Sample Number	Location	Material	Asbestos (% Type)
082611-1A	Elevator	9"x9" Black Floor Tile	<1% CH
082611-1B	Elevator	9"x9" Black Floor Tile	<1% CH
082611-2A	Elevator	9"x9" Black Floor Tile Mastic	10% CH
082611-2B	Elevator	9"x9" Black Floor Tile Mastic	8% CH
121916-01A	Room A019	9"x9"Black Floor Tile	3% CH
121916-01B	Room A018	9"x9"Black Floor Tile	2% CH
121916-02A	Room A019	Black Mastic for 9"x9" Black Floor Tile	8% CH
121916-02B	Room A018	Black Mastic for 9"x9" Black Floor Tile	5% CH
121916-03A	Room A002	12"x12" Black Floor Tile	NAD
121916-03B	Room A002	12"x12" Black Floor Tile	NAD
121916-04A	Room A002	Black Mastic for 12"x12" Black Floor Tile	NAD
121916-04B	1st Floor Hallway	Black Mastic (Residual) for 12"x12" Tan Floor Tile	3% CH
121916-05A	Basement Hallway	Brown Mastic for 12"x12" Tan Floor Tile	NAD
121916-05B	Basement Hallway	Brown Mastic for 12"x12" Tan Floor Tile	NAD
121916-06A	1st Floor Hallway	12"x12" Tan Floor Tile	NAD
121916-06B	Basement Hallway	12"x12" Tan Floor Tile	NAD
121916-07A	Basement Hall Near Room A003	Gray Carpet Adhesive	NAD
121916-07B	Basement Hall Near Room A016	Gray Carpet Adhesive	NAD
121916-08A	Room A204	Yellow Carpet Adhesive	NAD
121916-08B	Room A213	Yellow Carpet Adhesive	NAD

Sample Number	Location	Material	Asbestos (% Type)
121916-09A	Room A204	Floor Leveling Compound	NAD
121916-09B	Room A204	Floor Leveling Compound	NAD
121916-10A	Room A013A	Ceramic Floor Tile Setting Compound	2% CH
121916-10B	Room A013A- South	Ceramic Floor Tile Setting Compound	<1 CH
121916-11A	Room A013A	Ceramic Floor Tile Grout	2% CH
121916-11B	Room A013A- South	Ceramic Floor Tile Grout	NAD
121916-12A	Room A013A	Ceramic Wall Tile Thin-set	2% CH
121916-12B	Room A013A- South	Ceramic Wall Tile Thin-set	2% CH
121916-13A	Room A013A	Ceramic Wall Tile Grout	NAD
121916-13B	Room A013A- South	Ceramic Wall Tile Grout	NAD
121916-14A	Room A019	Black Glue Daubs (Wall)	NAD
121916-14B	Room A019	Black Glue Daubs (Wall)	NAD
121916-15A	Room A019	Gypsum Board Wall	NAD
121916-15B	Room A110	Gypsum Board Wall	NAD
121916-16A	Room A013A	Joint Compound	NAD
121916-16B	Room A110	Joint Compound	NAD
121916-17A	Hallway Near Room A103	4" Blue Cove Base	NAD
121916-17B	Hallway Near Room A010	4" Blue Cove Base	NAD
121916-18A	Hallway Near Room A103	Adhesive for 4" Blue Cove Base	NAD
121916-18B	Hallway Near Room A010	Adhesive for 4" Blue Cove Base	NAD

Sample Number	Location	Material	Asbestos (% Type)
121916-19A	Room A013A	6" Gray Cove Base	NAD
121916-19B	Room A013A	6" Gray Cove Base	NAD
121916-20A	Room A013A	Adhesive for 6" Gray Cove Base	NAD
121916-20B	Room A013A	Adhesive for 6" Gray Cove Base	NAD
121916-21A	Room A019	4" Black Cove Base	NAD
121916-21B	Room A018	4" Black Cove Base	NAD
121916-22A	Room A019	Brown Adhesive for 4" Black Cove Base	NAD
121916-22B	Room A018	Brown Adhesive for 4" Black Cove Base	NAD
121916-23A	Room A013A	4" Brown Cove Base	NAD
121916-23B	Room A013A	4" Brown Cove Base	NAD
121916-24A	Room A112	Door Frame Caulking	NAD
121916-24B	Northwest Exit	Door Frame Caulking	NAD
121916-25A	Room A112	Window Caulking (Metal)	<1 AN
121916-25B	Room A019	Window Caulking (Metal)	<1 AN
121916-26A	Room A110	Black Paper on Duct Insulation	NAD
121916-26B	Room A106	Black Paper on Duct Insulation	NAD
121916-27A	Room A110	Yellow Duct Insulation Adhesive	NAD
121916-27B	Room A106	Yellow Duct Insulation Adhesive	NAD
121916-28A	Mechanical Room	Duct Insulation Pin Adhesive	50% CH
121916-28B	Room A106	Duct Insulation Pin Adhesive	28% CH

Sample Number	Location	Material	Asbestos (% Type)
121916-29A	Room A013A	Adhesive to 4" Brown Cove Base	NAD
121916-29B	Room A013A	Adhesive to 4" Brown Cove Base	NAD
121916-30A	Room A019	2'x2' Ceiling Tile with Reflective Backing	2% CH
121916-30B	Custodial Room A011	2'x2' Ceiling Tile with Reflective Backing	2% CH
121916-31A	1st Floor Hallway	2'x2' Ceiling Tile (Type II)	NAD
121916-31B	2nd Floor Hallway	2'x2' Ceiling Tile (Type II)	NAD
121916-32A	Room A110	2'x2' Ceiling Tile (Type I)	NAD
121916-32B	Room A213	2'x2' Ceiling Tile (Type I)	NAD
121916-33A	Custodial Room A011	Mudded Pipe Fitting Insulation	2% AM
121916-33B	Room A019	Mudded Pipe Fitting Insulation	2% AM
121916-33C	Room A013A - South	Mudded Pipe Fitting Insulation	2% AM
121916-34A	Mechanical Room	Tank Insulation	NAD
121916-34B	Mechanical Room	Tank Insulation	NAD
121916-34C	Mechanical Room	Tank Insulation	NAD
121916-35A	Mechanical Room	Vibration Cloth	NAD
121916-35B	Mechanical Room	Vibration Cloth	NAD
022017-HH-1A	Mechanical Room	Flex Connector	NAD
022017-HH-1B	Mechanical Room	Flex Connector	NAD
022017-HH-6A	Room A001	12"x12" Black Floor Tile	NAD
022017-HH-6B	Room A001	12"x12" Black Floor Tile	NAD

Sample Number	Location	Material	Asbestos (% Type)
022017-HH-7A	Room A001	12"x12" Black Floor Tile Mastic	NAD
022017-HH-7B	Room A001	12"x12" Black Floor Tile Mastic	NAD
061517-1975-1A	West Exterior	White Window Caulking	4% CH
061517-1975-1B	West Exterior	White Window Caulking	6% CH
061517-1975-1C	East Exterior	White Window Caulking	3% CH
061517-1975-2A	West Exterior	Gray Window Caulking	NAD
061517-1975-2B	West Exterior	Gray Window Caulking	NAD
061517-1975-2C	East Exterior	Gray Window Caulking	NAD
061517-1A	Field 1	Tectum Deck	NAD
061517-1B	Field 2	Tectum Deck	NAD
061517-2A	Field 1	Brown Rosin Paper	NAD
061517-2B	Field 2	Brown Rosin Paper	NAD
061517-3A	Field 1	4-Ply Built-up Roofing Felts	NAD
061517-3B	Field 2	4-Ply Built-up Roofing Felts	NAD
061517-4A	Field 1	4-Ply Built-up Roofing Tar	NAD
061517-4B	Field 2	4-Ply Built-up Roofing Tar	NAD
061517-5A	Pedestal Flashing	Silver Paint Coating	NAD
061517-5B	Pedestal Flashing	Silver Paint Coating	NAD
061517-6A	Pedestal Flashing	Black Flashing	NAD
061517-6B	Pedestal Flashing	Black Flashing	NAD

Sample Number	Location	Material	Asbestos (% Type)
061517-7A	Field 3	Light Weight Concrete on Tectum Deck	NAD
061517-7B	Field 3	Light Weight Concrete on Tectum Deck	NAD
061517-8A	Patch 1	Roof Patch Tile	NAD
061517-8B	Patch 1	Roof Patch Tile	NAD
061517-9A	Patch 1	Roof Patch Tar	NAD
061517-9B	Patch 1	Roof Patch Tar	NAD
061517-10A	Field 3	Hot Patch 4-Ply Built-up Roofing	NAD
061517-10B	Field 3	Hot Patch 4-Ply Built-up Roofing	NAD
061517-11A	Field 3	Hot Patch 4-Ply Built-up Roofing Tar	NAD
061517-11B	Field 3	Hot Patch 4-Ply Built-up Roofing Tar	NAD
061517-12A	Field 3	Hot Patch Brown Rosin Paper	NAD
061517-12B	Field 3	Hot Patch Brown Rosin Paper	NAD
061517-13A	Flashing 1	Silver Paint Coating	NAD
061517-13B	Flashing 2	Silver Paint Coating	NAD
061517-14A	Pedestal Flashing	Black Tar	NAD
061517-14B	Pedestal Flashing	Black Tar	NAD
061517-15A	Roof	Tectum Deck	NAD
061517-15B	Roof	Tectum Deck	NAD
061517-16A	Patch 2	Roof Patch	NAD
061517-16B	Patch 2	Roof Patch	NAD

Sample Number	Location	Material	Asbestos (% Type)
061517-17A	Patch 2	Fiberboard	NAD
061517-17B	Patch 2	Fiberboard	NAD
061517-18A	HVAC RTU	Black Tar	NAD
061517-18B	HVAC RTU	Black Tar	NAD
061517-19A	Roof East	Gray Cap Caulk	NAD
061517-19B	Roof East	Gray Cap Caulk	NAD
061517-20A	Roof Drain 1	Roof Drain Flashing	NAD
061517-20B	Roof Drain 1	Roof Drain Flashing	NAD
061517-21A	Roof Drain 1	Roof Drain Flashing Tar	NAD
061517-21B	Roof Drain 1	Roof Drain Flashing Tar	NAD
061517-22A	Roof Drain 1	Roof Drain Caulk	NAD
061517-22B	Roof Drain 1	Roof Drain Caulk	NAD
061517-23A	Roof RTV	Flashing Membrane	NAD
061517-23B	Roof RTV	Flashing Membrane	NAD
061517-24A	Roof HVAC R410A	Flashing Membrane	NAD
061517-24B	Roof HVAC R410A	Flashing Membrane	NAD
061517-25A	Roof HVAC R410A	Flashing Tar	NAD
061517-25B	Roof HVAC R410A	Flashing Tar	NAD
061517-26A	Flashing 3	Black Tar Flashing Patch	NAD
061517-26B	Flashing 3	Black Tar Flashing Patch	NAD

	WESTERN CO	TABLE 6-1 SUMMARY OF SUSPECT MATERIAI ONNECTICUT STATE UNIVERSITY IGGINS HALL ANNEX	LS
Sample Number	Location	Material	Asbestos (% Type)
061517-27A	Roof South East	Dark Gray Cap Caulk	NAD
061517-27B	Roof South East	Dark Gray Cap Caulk	NAD
061517-28A	Roof East	Lightning Rod Pitch Pocket	NAD
061517-28B	Roof East	Lightning Rod Pitch Pocket	NAD
061517-29A	Roof Windows	Glazing	**
061517-29B	Roof Windows	Glazing	**

CH = Chrysotile

AM = Amosite AN = Anthophyllite NA/PS = Not Analyzed / Positive Stop NAD = No Asbestos Detected * Analyzed by TEM ** Insufficient Material

7.0 BULK SAMPLE RESULTS/CHAIN - OF - CUSTODY FORMS



307 West 38th Street New York, NY 10018 Tel/Fax: (212) 290-0051 / (212) 290-0058 http://www.EMSL.com / manhattanlab@emsl.com
 EMSL Order:
 031717676

 Customer ID:
 ATCE54

 Customer PO:
 17-10133-0001

 Project ID:
 17-10133-0001

	Ed Fennell ATC Group Services LLC		(860) 282-9924 (860) 282-9826
	•		06/16/2017 10:27 AM
	Suite 301	Analysis Date:	
	East Hartford, CT 06108	Collected Date:	
Project:	2257317021/ CTDCS/ HIGGINS HALL/ ANNEX/ WCSU DANBURY CT (17-	-10133-0001)	

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

			Non-Asbestos		<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
061517-1975-1A 031717676-0001	HIGGINS ANNEX WEST - WHITE EXTERIOR WINDOW CAULK	Gray Non-Fibrous Homogeneous		45% Ca Carbonate 51% Non-fibrous (Other)	4% Chrysotile
061517-1975-1B 031717676-0002	HIGGINS ANNEX WEST - WHITE EXTERIOR WINDOW CAULK	Gray Non-Fibrous Homogeneous		40% Ca Carbonate 54% Non-fibrous (Other)	6% Chrysotile
061517-1975-1C 031717676-0003	HIGGINS ANNEX EAST - WHITE EXTERIOR WINDOW CAULK	Gray Non-Fibrous Homogeneous		32% Ca Carbonate 65% Non-fibrous (Other)	3% Chrysotile
061517-1975-2A 031717676-0004	HIGGINS ANNEX WEST - GRAY EXTERIOR WINDOW CAULK	Gray Non-Fibrous Homogeneous	10% Fibrous_Other	30% Ca Carbonate 60% Non-fibrous (Other)	None Detected
061517-1975-2B 031717676-0005	HIGGINS ANNEX WEST - GRAY EXTERIOR WINDOW CAULK	Gray Non-Fibrous Homogeneous	10% Fibrous_Other	20% Ca Carbonate 70% Non-fibrous (Other)	None Detected
061517-1975-2C 031717676-0006	HIGGINS ANNEX EAST - GRAY EXTERIOR WINDOW CAULK	Gray Non-Fibrous Homogeneous	3% Fibrous_Other	33% Ca Carbonate 64% Non-fibrous (Other)	None Detected
061517-1950-3A 031717676-0007	HIGGINS HALL EAST - LIGHT GRAY EXTERIOR WINDOW CAULK	Gray Non-Fibrous Homogeneous	6% Fibrous_Other	15% Ca Carbonate 79% Non-fibrous (Other)	None Detected
061517-1950-3B 031717676-0008	HIGGINS HALL EAST - LIGHT GRAY EXTERIOR WINDOW CAULK	Gray Non-Fibrous Homogeneous	7% Fibrous_Other	15% Ca Carbonate 78% Non-fibrous (Other)	None Detected
061517-1940-3C <i>031717676-000</i> 9	HIGGINS HALL SOUTH - LIGHT GRAY EXTERIOR WINDOW CAULK	Gray Non-Fibrous Homogeneous		35% Ca Carbonate 65% Non-fibrous (Other)	None Detected

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

Initial report from: 06/19/2017 09:45:57



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	ATC Group Services LLC	Fax:	(860) 282-9826
	290 Roberts Street	Received Date:	06/16/2017 10:27 AM
	Suite 301	Analysis Date:	06/19/2017
	East Hartford, CT 06108	Collected Date:	06/19/2017
Project:	2257317021/ CTDCS/ HIGGINS HALL/ ANNEX/ WCSU DANBURY CT (17	-10133-0001)	

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date:	06/16/2017
Analysis Completed Date:	06/19/2017

Sample Receipt Time:10:27 AMAnalysis Completed Time:1:54 AM

Analyst(s):

Thely for

Ghaly Hemaya PLM (6)

amel Alawanda

Kamel Alawawda PLM (3)

Samples Reviewed and approved by:

James PAU

James Hall, Laboratory Manager or other approved signatory

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Initial report from: 06/19/2017 09:45:57

•			031	D717676	216	Dand of	•
BUILDING SCIENCES - MATERIALS TESTING	BUL	K SAM	ULK SAMPLE LOG	G VID	EV.	East Hartford. (860) 282-9924	- age0'
ATC Inspector: A. We JS+		Client	Client Name: 17 201 CS	1325			
Accreditation No.: 736		Project	Project No./Task No.: 225731702	225731	7021		
Survey Date: 6-15-17		Project	Project Manager: E	Fenn	611		
Signature: CAM WEING		Reque	Requested Completion Date:	9	19-17		
Lab Name: EMSL Requested turnaround time (circle)	d time (circle)	3 HR 6	6 HR 24 HR	48 HR (3 DY	0 5 DY	No. Samples Collected	illected 9
Building: Higgins Hall/Annex	Address:	WCSU	Denbury	r ct			
Location Material Description		Type S TSI MISC	Estimated Quantity	Friable Y/N	Condition (SD D ND)	Sample _of _ (homogeneous material)	Field Number
Higgins Annex West White exterior window	clow	Misc				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	061577-1975-14
n 11 East 11	11					· ~ ~	1 1 5
Higgins Annex West group exterior evindon	how					- 2	282
1 In East 11	11					~~~	N ZC
Higgins Hall East light gray exterio	or					5 2	0615817-1950.3A
11 realized	11	2				\sim	V 194030
LEAST LEAST							
Comments:			PLM				
Physical (sig dmg-dmg-no dmg) prs: Proximity (<1ft-1-5ft->6ft) Ventilation (vecho: if yes, type) By/Date: Hand (vecho: if yes, type) By/Date: Hand (vecho: if yes, type)	e-moderate-s thin reach-ba achable)	-15-	<u>Deterioration</u> (heavy-moderate-light-none) <u>Vibration</u> (gym-music rm-auditorium-mechanical rm-elevator-other) <u>Air movement</u> (high-moderate-low) <u>17</u> Received By/Date: Received By/Date:	ht-none) m-mechanical rm-el 3y/Date: 3y/Date:	svator-other) Jacen	Friability (yes-no: hard-mod-soft surface) Barriers (perm airtight-enclosed-encapsulated) Texture (rough-pitted-moderate-smooth)	ated)
S'BIdgSciAdmin\Templates and Forms\Asbestos\Asbestos Bulk Sample Form doc	ON	21-61-9			TX 80	Fx 8100 2431 8134	8134 N 151

OrderID: 031717676

1

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 Project ID:
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Attention:	Ed Fennell	Phone:	(860) 282-9924
	ATC Group Services LLC	Fax:	(860) 282-9826
	290 Roberts Street	Received Date:	06/16/2017 10:27 AM
	Suite 301	Analysis Date:	06/19/2017 - 06/20/2017
	East Hartford, CT 06108	Collected Date:	06/15/2017
Project:	2257317021/ CTDCS/ HIGGINS ANNEX ROOF/ WCSU, DANBURY, CT (*	17-10133-0001)	

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

			Non-As	Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
061517-1A 031717729-0001	FIELD 1 - TECTUM DECK	Brown Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
061517-1B 031717729-0002	FIELD 2 - TECTUM DECK	Gray/Tan Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
061517-2A 031717729-0003	FIELD 1 - BROWN ROSIN PAPER	Gray Non-Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
061517-2B 031717729-0004	FIELD 2 - BROWN ROSIN PAPER	Brown Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
061517-3A 031717729-0005	FIELD 1 - 4PLY BUILT UP FELT	Black Non-Fibrous Homogeneous		75% Matrix 25% Non-fibrous (Other)	None Detected
061517-3B 031717729-0006	FIELD 2 - 4PLY BUILT UP FELT	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
061517-4A 031717729-0007	FIELD 1 - 4PLY BUILT UP TAR	Black Non-Fibrous Homogeneous	44% Cellulose 6% Glass	25% Matrix 25% Non-fibrous (Other)	None Detected
061517-4B 031717729-0008	FIELD 2 - 4PLY BUILT UP TAR	Black Non-Fibrous Homogeneous	2% Glass	98% Non-fibrous (Other)	None Detected
061517-5A 031717729-0009	PEDEISTAL - SILVER PAINT ON PEDESTAL	Silver Non-Fibrous Homogeneous		20% Matrix 80% Non-fibrous (Other)	None Detected
061517-5B 031717729-0010	PEDEISTAL 2 - SILVER PAINT ON PEDESTAL	Silver Non-Fibrous Homogeneous		30% Matrix 70% Non-fibrous (Other)	None Detected

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



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	290 Roberts Street	Received Date:	06/16/2017 10:27 AM
	Suite 301	Analysis Date:	06/19/2017 - 06/20/2017
	East Hartford, CT 06108	Collected Date:	06/15/2017
Project:	2257317021/ CTDCS/ HIGGINS ANNEX ROOF/ WCSU, DANBURY, CT (1	7-10133-0001)	

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

			Non-As	<u>Asbestos</u>		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре	
061517-6A 031717729-0011	PEDEISTAL 1 - BLACK FLASHING ON PEDESTAL	Black Non-Fibrous Homogeneous		75% Matrix 25% Non-fibrous (Other)	None Detected	
061517-6B <i>031717729-0012</i>	PEDEISTAL 2 - BLACK FLASHING ON PEDESTAL	Black Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected	
061517-7A 031717729-0013	FIELD 3 - LIGHT WEIGHT CONCRETE ON TECTUM	Gray/White Non-Fibrous Homogeneous	62% Cellulose	15% Ca Carbonate 23% Non-fibrous (Other)	None Detected	
061517-7B 031717729-0014	FIELD 3 - LIGHT WEIGHT CONCRETE ON TECTUM	Gray Non-Fibrous Homogeneous	65% Cellulose	15% Ca Carbonate 4% Mica 16% Non-fibrous (Other)	None Detected	
061517-8A 031717729-0015	PATCH 1 - ROOF PATCH TILE	Black Non-Fibrous Homogeneous	12% Cellulose	5% Quartz 45% Matrix 38% Non-fibrous (Other)	None Detected	
061517-8B 031717729-0016	PATCH 1 - ROOF PATCH TILE	Black Non-Fibrous Homogeneous	5% Cellulose 5% Glass	90% Non-fibrous (Other)	None Detected	
061517-9A 031717729-0017	PATCH 1 - ROOF PATCH TAR	Black Non-Fibrous Homogeneous	25% Cellulose	40% Matrix 35% Non-fibrous (Other)	None Detected	
061517-9B 031717729-0018	PATCH 1 - ROOF PATCH TAR	Black Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected	
061517-10A 031717729-0019	FIELD 3 - HOT PATCH 4PLY BUILT UP	Black Non-Fibrous Homogeneous	5% Glass	60% Matrix 35% Non-fibrous (Other)	None Detected	
061517-10B 031717729-0020	FIELD 3 - HOT PATCH 4PLY BUILT UP	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected	

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	290 Roberts Street	Received Date:	06/16/2017 10:27 AM
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	East Hartford, CT 06108	Collected Date:	06/15/2017
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-As	Non-Asbestos		
Sample	Description Appearance % Fibrous % Non-Fibrous		% Туре			
061517-11A 031717729-0021	FIELD 3 - HOT PATCH 4PLY BUILT UP TAR	Black Non-Fibrous Homogeneous		65% Matrix 35% Non-fibrous (Other)	None Detected	
061517-11B 031717729-0022	FIELD 3 - HOT PATCH 4PLY BUILT UP TAR	Black Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected	
061517-12A 031717729-0023	FIELD 3 - HOT PATCH BROWN ROSIN PAPER	Black Non-Fibrous Homogeneous	15% Cellulose	45% Matrix 40% Non-fibrous (Other)	None Detected	
061517-12B 031717729-0024	FIELD 3 - HOT PATCH BROWN ROSIN PAPER	Tan/Black Non-Fibrous Homogeneous	35% Cellulose	65% Non-fibrous (Other)	None Detected	
061517-13A 031717729-0025	FLASHING 1 - SILVER PAINT ON FLASHING	Silver Non-Fibrous Homogeneous		15% Matrix 85% Non-fibrous (Other)	None Detected	
061517-13B 031717729-0026	FLASHING 2 - SILVER PAINT ON FLASHING	Silver Non-Fibrous Homogeneous	5% Cellulose	40% Matrix 55% Non-fibrous (Other)	None Detected	
061517-14A 031717729-0027	FLASHING 1 - BLACK TAR ON FLASHING	Black Non-Fibrous Homogeneous	15% Cellulose	45% Matrix 40% Non-fibrous (Other)	None Detected	
061517-14B 031717729-0028	FLASHING 2 - BLACK TAR ON FLASHING	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected	
061517-15A 031717729-0029	ROOF - TECTUM CORE	Gray Fibrous Homogeneous	80% Cellulose	11% Ca Carbonate 9% Non-fibrous (Other)	None Detected	
061517-15B 031717729-0030	ROOF - TECTUM CORE	Gray Fibrous Homogeneous	75% Cellulose	15% Ca Carbonate 10% Non-fibrous (Other)	None Detected	

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	Suite 301	Analysis Date:	06/19/2017 - 06/20/2017
	East Hartford, CT 06108	Collected Date:	06/15/2017
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-As	sbestos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
061517-16A 031717729-0031	PATCH 2 - ROOF PATCH	Black Non-Fibrous Homogeneous	15% Cellulose	50% Matrix 35% Non-fibrous (Other)	None Detected
061517-16B <i>031717729-0032</i>	PATCH 2 - ROOF PATCH	Gray/Black Non-Fibrous Homogeneous	15% Cellulose 5% Glass	80% Non-fibrous (Other)	None Detected
061517-17A 031717729-0033	PATCH 2 - FIBERBOARD	Brown Fibrous Homogeneous	75% Cellulose 12% MinWool	13% Non-fibrous (Other)	None Detected
061517-17B 031717729-0034	PATCH 2 - FIBERBOARD	Brown/Gray Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
061517-18A 031717729-0035	HVAC RTU - BLACK PEDESTAL TAR	Black Non-Fibrous Homogeneous		45% Matrix 55% Non-fibrous (Other)	None Detected
061517-18B 031717729-0036	HVAC RTU - BLACK PEDESTAL TAR	Black Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
061517-19A <i>031717729-0037</i>	ROOF EAST - GRAY CAP CAULK	Gray Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
061517-19B <i>031717729-0038</i>	ROOF WEST - GRAY CAP CAULK	Gray Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
061517-20A 031717729-0039	ROOF DRAIN 1 - ROOF DRAIN PAD	Gray Non-Fibrous Homogeneous	40% Glass	20% Matrix 40% Non-fibrous (Other)	None Detected
061517-20B 031717729-0040	ROOF DRAIN 1 - ROOF DRAIN PAD	Gray/Black Non-Fibrous Homogeneous	35% Glass	65% Non-fibrous (Other)	None Detected

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



307 West 38th Street New York, NY 10018 Tel/Fax: (212) 290-0051 / (212) 290-0058 http://www.EMSL.com / manhattanlab@emsl.com
 EMSL Order:
 031717729

 Customer ID:
 ATCE54

 Customer PO:
 17-10133-0001

 Project ID:
 17-10133-0001

Attention:	Ed Fennell	Phone:	(860) 282-9924
	ATC Group Services LLC	Fax:	(860) 282-9826
	290 Roberts Street	Received Date:	06/16/2017 10:27 AM
	Suite 301	Analysis Date:	06/19/2017 - 06/20/2017
	East Hartford, CT 06108	Collected Date:	06/15/2017
Project:	2257317021/ CTDCS/ HIGGINS ANNEX ROOF/ WCSU, DANBURY, CT (*	7-10133-0001)	

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

			Non-As	sbestos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
061517-21A 031717729-0041	ROOF DRAIN 1 - BLACK TAR ON ROOF DRAIN PAD	Gray/Black Non-Fibrous Homogeneous		42% Matrix 58% Non-fibrous (Other)	None Detected
061517-21B 031717729-0042	ROOF DRAIN 1 - BLACK TAR ON ROOF DRAIN PAD	Gray/Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
061517-22A 031717729-0043	ROOF DRAIN 1 - ROOF DRAIN CAULK	Black Non-Fibrous Homogeneous	25% Cellulose	40% Matrix 35% Non-fibrous (Other)	None Detected
061517-22B 031717729-0044	ROOF DRAIN 1 - ROOF DRAIN CAULK	Black Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
061517-23A 031717729-0045	ROOF RTV - FLASHING MEMBRANE	Black Non-Fibrous Homogeneous	20% Cellulose	15% Quartz 50% Matrix 15% Non-fibrous (Other)	None Detected
061517-23B 031717729-0046	ROOF RTV - FLASHING MEMBRANE	Black Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
061517-24A 031717729-0047	ROOF R410A - FLASHING MEMBRANE	Black Non-Fibrous Homogeneous	15% Cellulose	50% Matrix 35% Non-fibrous (Other)	None Detected
061517-24B 031717729-0048	ROOF R410A - FLASHING MEMBRANE	Black Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
061517-25A 031717729-0049	ROOF R410A - FLASHING TAR	Black Non-Fibrous Homogeneous		40% Matrix 60% Non-fibrous (Other)	None Detected
061517-25B 031717729-0050	ROOF R410A - FLASHING TAR	Black Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected

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



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Project:	2257317021/ CTDCS/ HIGGINS ANNEX ROOF/ WCSU, DANBURY, CT (17-10133-0001)	

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

			Non-As	bestos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
061517-26A 031717729-0051	FLASHING 3 - BLACK TAR FLASHING PATCH	Black Non-Fibrous Homogeneous	1% Cellulose	60% Matrix 39% Non-fibrous (Other)	None Detected
061517-26B 031717729-0052	FLASHING 3 - BLACK TAR FLASHING PATCH	Black Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
061517-27A 031717729-0053	ROOF SOUTH EAST - DARK GRAY CAP CAULK	Black Non-Fibrous Homogeneous		45% Matrix 55% Non-fibrous (Other)	None Detected
061517-27B 031717729-0054	ROOF SOUTH EAST - DARK GRAY CAP CAULK	Gray Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
061517-28A 031717729-0055	LIGHTNING ROD - PITCH POCKET	Gray/Black Non-Fibrous Homogeneous		12% Ca Carbonate 40% Matrix 48% Non-fibrous (Other)	None Detected
061517-28B 031717729-0056	LIGHTNING ROD - PITCH POCKET	Gray/Black Non-Fibrous Homogeneous		45% Matrix 55% Non-fibrous (Other)	None Detected
061517-29A 031717729-0057	ROOF WINDOWS - INTERIOR WINDOW GLAZING				Insufficient Material
061517-29B 031717729-0058	ROOF WINDOWS - INTERIOR WINDOW GLAZING				Insufficient Material
061517-30A 031717729-0059	HIGGINS HALL ATTIC - EXTERIOR DOOR CAULK	Black Non-Fibrous Homogeneous	2% Synthetic	40% Matrix 58% Non-fibrous (Other)	None Detected
061517-30B 031717729-0060	HIGGINS HALL ATTIC - EXTERIOR DOOR CAULK	Black Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected

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	East Hartford, CT 06108	Collected Date:	06/15/2017
Project:	2257317021/ CTDCS/ HIGGINS ANNEX ROOF/ WCSU, DANBURY, C	T (17-10133-0001)	

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: (Analysis Completed Date: (

06/16/2017 06/20/2017

Sample Receipt Time:	10:27 AM
Analysis Completed Time:	1:15 AM

Analyst(s):

Sharlin

Daena Charles PLM (28)

Eignassie Chompson

Tiquasha Thompson PLM (30)

Samples Reviewed and approved by:

James PALO

James Hall, Laboratory Manager or other approved signatory

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OrderID: 031717729

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OrderID: 031717729

YIC.	$\underset{\texttt{BUILDING SCIENCES}}{\texttt{ENVIRONMENTAL}} \cdot \underset{\texttt{GEOTECHNICAL}}{\texttt{GEOTECHNICAL}} \mathbf{BU}$	BULK SAMPLE LOG	IPLE LO	OG		e k	290 Roberts 1 East Hartfor	reet, Si CT 00
		03171	7729			(8	(860) 282-9924	4 Eax: (860) 282-9826
ATC Inspector: A	Werst	Client Name	Name: CT	570		à		
Accreditation No.: 73	6	Project	Project No./Task No.:	56533	13021			9
Survey Date: 6-15-	17	Project	Project Manager:	Fen	e11			AM I
Signature: CAM	Werth	Reque	Requested Completion Date		9-17			; :01
Lab Name: EMSL	Requested turnaround time (circle)	3 HR	6 HR 24 HR	48 HR 3 DY	5 DY	No. Sam	Samples Collected	
Building: Higgins	Annex Rook Address:	WESU	Danbury	4				0
Location	2	Type S TSI MISC	Estimated Quantity	Friable Y/N	Condition (SD D ND)	Sample _of _ (homogeneous	eneous	Field Number
Partch I Partch LI	rook patch tas	Misc				2-	~	261517 - 94
Field 3	Hot patch uply builtup	100 m		t		2-1	\sim	104
	Hot patch 4 ply built up	N. 1				-V-	\sim	114
	Hot patch Brown Rosin Paper					N-1	\sim	121 421
Flashing	Silver paint on Flashing					- ~	\sim	134
Flashing 1 Flashing 2	Black tar on Flashing					2	\sim	14 (14 (
ROOF	rectum core	14				N-	\sim	151
Match Zh	Rook portch	Ċ				~~	2	16
Comments:		ru1	N			K	8	19/17 300
Notes Damage Factors: Disturbance Factors: Relinquished By/Date: Relinquished By/Date:	Physical (sig dmg-dmg-no dmg) Water (extensive-moderate-slight-none) Proximity (<1ft- 1-6ft- >6ft) Accessibility (within reach-barely reachable)-not reachable) Ventilation (wes-no; if yes, type) Air conduits (air plenum - air shaft - duct) Umath Mark Mark Air conduits (air plenum - air shaft - duct)		Deterioration (heavy-moderate-light-none) <u>Vibration</u> (gym-music rm-auditorium-mechanical rm-elevator-other) <u>Air movement</u> (high-moderate-low) Received By/Date: Audult Received By/Date: Audult	ht-none) m-mechanical m-ele) 3y/Date:	20	Eriability (yes-no; hard-mod-soft surface) Barriers (perm airtight-enclosed-encapsu Texture (roligh-pitted-moderate-smooth)	es-no, hard-mod- arm airtight-enclos	Eriability (yes-no; hard-mod-soft surface) Barriers (perm airtight-enclosed-encapsulated) Texture (roligh-pitted-moderate-smooth) Texture (roligh-pitted-moderate-smooth) DUUDUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

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OrderID: 031717729

TSI N ST	TSI N ST	K SAMPLE LOG DATITIAQ Client Name: CTDC S Project No./Task No.: ZZS731 Project Manager: E Fennell Requested Completion Date: 6-1 Type Estimated Friable MISC Danbury T	INSC INSC	Signature: Up No Lab Name: EMSL Requested turnaround time (circle)	Building: Higgins Annex Root Ad	M	Parch 2 Fiber board		11 Black F	C RTU Black prolistar 11 Black prolistar 11 Black prolistar	C RTU Black prolistar (C RTU Black prolistar (C RTU Black prolistar (C RTU Black prolistar (C RTU Black prolistar	" Black prolistar " Black prolistar " Black prolistar " Black tar pau drain 1, Foot drain pau drain 1, Black tar pau	REAST IN Black provistar Reast Julest Grain I Black tar pad drain padrain cau Reat Jrain cau	C RTU Black pedistar "East "Black pedistar "Rest Stary cap cau drain 1," Black tar pad "I Black tar pad drain pad Arain cau Rest drain cau	C RTU Black profist "East Stary cap of Mest Stary cap of drain I, Foot drain Arain I, Flashing C RTU Flashing B	C RTU Black profist "East "Black profist drain I, "Black profist drain I, "Black profist drain I, "Black tar drain tar drain K tar drain Flashing Black tar C RTU Black tar drain Flashing Black tar	TU Black pedista 11 Black pedista 11 Black pedista 11 Black pedista 11 Black tar 11 Elack tar 11 Black tar 11 Black tar 11 Black tar 11 Black tar 11 Black tar 11 Black tar 11 Flashing Ba	n Black pedistar ta II Black pedistar ta II Black pedistar ta Nest Black pedistar ta II Stay cap cault Arain II Foot drain pad Arain II Foot drain cault Arain II Flashing pad II Flashing pad II Flashing pad II Flashing pad III Flashing pad IIII Flashing pad IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
	PLE LOC PLE LOC PLE LOC PLE LOC AManager: CTD Vo./Task No.: 2 No./Task No.: 2 R 24 HR 48 R 24 HR 48 Estimated Quantity	R BDY YIN	S S S S S S S S S S S S S C S D V S D V NN (SD D ND)	3	Address: WCSU 1	Type S TSI MISC	MiSC							mbtana	mbrano brane	nbrane U brane U R	E	light- Deteriorat shaft - <u>Air moven</u>
S S S S S S S S S S S S S S S S S S S	DY No. Samp D ND) (homo ma			s Collected			-06		~								ANN NNN NNN	
Page <u>3</u> of <u>4</u> 290 Roberts Street East Hartford, CT (860) 282-9924 S S S S S S S S S S S S S S S S S S S	Page <u>3</u> of <u>4</u> 290 Roberts Street East Hartford, CT (860) 282-9924 DY No. Samples Collected DY No. Sample _of _ (homogeneous material)	Page <u>3</u> of <u>4</u> 290 Roberts Street East Hartford, CT (860) 282-9924 Samples Collected mogeneous material) 2	of ord, CT 9924	91 N		Field Number	15-17- 4			1	2						to a line	100 100 100 100 100 100 100 100 100 100
Page <u>3</u> of <u>4</u> 290 Roberts Street, St East Hartford, CT 06 (860) 282-9924 S S S S S S S S S S S S S S S S S S S	Page $\underline{\mathcal{Z}}$ of $\underline{\mathcal{Y}}$ 290 Roberts Street, S East Hartford, CT 0 (860) 282-9924 -17 -17 No. Samples Collected	Page <u>3</u> of <u>4</u> 290 Roberts Street, S East Hartford, CT 0 (860) 282-9924	Collected	1303) 1303) 11171		03A		7- 17A	MED dam	dun d	dam dam	umb CT	E E E E E E E E E E E E E E E E E E E				mmber 122 222 227 12 12 12 12 12 12 12 12 12 12 12 12 12	

Page 3 Of 4

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BULK SAMPLE LOG

Page 4 of 4 East Hartford, CT 06108 (860) 282-9924 Fax; 290 Roberts Street, Suite 301

BUIL	BUILDING SCIENCES - MATERIALS TESTING					Ea	East Hartford, CT 06108	F 06108	
		031717	7729			(86	(860) 282-9924	Fax; (860	Fax: (860) 282-9826
ATC Inspector: Alisa	Werst	Client Name:	Vame: C1	520-				nr	٦٥
Accreditation No.: 736		Project	Project No./Task No.:	151522	1501	1		IN	711 V11
Survey Date: 6715-1	7	Project	Project Manager:	FANNA	1			9	Mit
Signature: Jun	MCDM	Reques	Requested Completion Date:	62	19-17			MA	
Lab Name: EMSL	Requested turnaround time (circle)	3 HR	6 HR 24 HR	48 HR 3 DY	5 DY	No. Samp	No. Samples Collected	d BO	NN
Building: Higginns	AMMAY ROOF Address:	WESU .	Dunbury					L2	۲V
Location	Material Description	Type / S TSI MISC	Estimated Quantity	Friable Y/N	Condition (SD D ND)	Sample _of _ (homogeneous material)	_of _ neous al)	Field Number	ber
RTU RHIOA	Flashing tar	Misc				2	2 0615	- 1151	257
Rashing 3,	Black tar Flashing DCALCH					2	7	7	262
ROOF South Roist Root-South Rast	dark gray cap caulk					A-	7		274
hightning Rod	pitch pocket	Ł				x -	7	¢	28A
FOOT WINDOWS	Interior window slating					V- (~		294
Higgins Hall Attic	exterior does Caulk	Z				v- r	~	e	30A 30A
						-	~		
Commonto.		PLM						5	
000000							XI IIII	43	

Page 4 Of

4

OrderID: 031717729

Relinquished By/Date: Relinquished By/Date:

Disturbance Factors

Proximity (<1ft- 1-6ft- >6ft)

Accessibility (within reach-barely reachable-not reachable)

(air plenum - air shaft - duct)

Air movement (high-moderate-low)

Received By/Date: Received By/Date Vibration (gym-music rm-auditorium-mechanical rm-elevator-other

Barriers (perm airtight-enclosed-encapsulated)

5

Ventilation (y)

0

Jt yes, type

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APPENDIX A

LICENSE AND CERTIFICATION





State of Connecticut

Lookup Detail View

Name

Name

ALISA M WERST

License Information

lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Actions or Pending Charges
Asbestos Consultant- Inspector	736	01/31/2018	04/08/2009	Alisa M. Werst	ACTIVE	None

Generated on: 1/20/2017 3:29:08 PM

CERTIFICATE OF ACHIEVEMENT

This certifies that

Alisa Werst

4 Hour Asbestos Site Inspector Refresher Training Asbestos Accreditation Under TSCA Title II has successfully completed the 40 CFR Part 763

conducted by

West Springfield, MA 01089 (413) 781-0070 ATC Group Services, LLC 73 William Franks Drive

Khegory Mouch

Principal Instructor: Gregory Morsch

October 13, 2016 Examination Date

Por a

Regional Training Manager. Gregory Morsch

SIAR-5569 Certificate Number

October 13, 2017 Expiration Date

October 13, 2016 Date of Course

APPENDIX B

DRAWINGS

