LIMITED ASBESTOS CONTAINING BUILDING MATERIAL SURVEY

OF THE

UNIVERSITY OF NORTH ALABAMA CAMPUS
LAGRANGE HALL
1660 TUNE AVENUE
FLORENCE, ALABAMA

TTSI PROJECT # 2017-1035

Terrell
Technical Services, Inc.
Environmental, Health & Safety Solutions

Prepared for:

University of North Alabama
Mr. Lee Handley
1660 Tune Avenue
Florence, AL 35630

Prepared by:

Terrell Technical Services, Inc.
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P. O. Box 1116
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November 2017

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November 20, 2017

University of North Alabama
Attn: Mr. Lee Handley
1660 Tune Avenue
Florence, AL 35630
wlhandley@una.edu

Re: Limited Asbestos Containing Building Material Survey of LaGrange Hall, Located on the University of North Alabama Campus in Florence, Alabama
(TTSI Project #2017-1035)

Dear Mr. Handley,

On November 9, 2017, representatives of Terrell Technical Services, Inc. (TTSI) performed a limited asbestos containing building material survey of LaGrange Hall, located on the University of North Alabama Campus in Florence, Alabama. The survey was performed to precede any future renovation or demolition activities in the structure which will fall under the regulations of the U.S. EPA Clean Air Act, National Emission Standards for Hazardous Air Pollutants (NESHAP), Asbestos Renovation and Demolition Standards and OSHA 29 CFR 1926.1101 Asbestos Worker Protection Standards for Construction.

TTSI utilized U.S. EPA and State of Alabama Accredited Asbestos Inspectors / Management Planner to direct and perform the survey and sampling event. In addition, American Industrial Hygiene Association (AIHA) / NIST National Voluntary Laboratory Accreditation Program (NVLAP) laboratory was utilized for sample analysis.

ASBESTOS SURVEY SUMMARY:

Sixty (60) samples of suspect asbestos containing building materials were collected and submitted for analysis. Multi-layered samples resulted in a total of one hundred twenty (120) individual analyses performed. Materials sampled typically include, but are not limited to; wallboard, wallboard joint compound, plasters, various ceiling tiles and textures, floor tiles and mastics, sheet flooring, caulking, window glazing, thermal system insulation (TSI) fireproofing and acoustical surfacing material, HVAC mechanical mastics, and roofing materials.

Of the materials analyzed, forty-five (45) individual samples of various materials were found to contain regulated amounts (greater than 1%) of asbestos. The identified materials in various locations included flooring and adhesive mastics, window glazing, ceiling texture, ceiling plaster (hallways), thermal system insulation (TSI) and mastics, as well as roofing materials.

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LaGrange Hall
UNA Campus, Florence, Alabama
Summary of Asbestos Containing Building Materials

LOCATIONS	MATERIAL	QUANTITY
Throughout Building	Window Caulk/Glazing	Approx. 250 Dorm Room Windows
Roof	Perimeter Roof Flashing	Approx. 2,080 Square Feet
Throughout Building	Floor Tiles and Mastic	Approx. 27,375 Square Feet
Throughout Building	Spray Applied Ceiling Texture	Approx. 38,300 Square Feet
All Hallways	Ceiling Plaster	Approx. 5,280 Square Feet
All Mechanical Rooms and Pipe Chase under 1st Floor	Pipe Insulation/Wrap/Mastic, Including Fittings	Approx. 1,075 Linear Feet and 100 fittings
Room 0113	Vessel Insulation	Approx. 200 Square Feet

Attached to this report, you will find the following information:

Appendix A: Summary Tables of Results
Appendix B: Drawings / Site Maps
Appendix C: Photographic Documentation
Appendix D: Laboratory Documentation
Appendix E: Credentials

Terrell Technical Services, Inc. appreciates the opportunity to have provided you with these services. If you have any questions, please feel free to contact me at (256) 461-9278.

Sincerely,

Terry Matson, CIE
Certified Indoor Environmentalist #1203013
EPA / Alabama Asbestos Inspector/Management Planner
Project Manager

Reviewed by,

Charles Terrell, CIH, CHMM
EPA / AHERA Accredited Asbestos Project Designer
Certified Industrial Hygienist #5850
Certified Hazardous Materials Manager #6203
President, Technical Director

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APPENDIX A

TABLES

TABLE A – SUMMARY OF ASBESTOS CONTAINING MATERIALS

TABLE B – SUMMARY OF SAMPLE RESULTS FOR SUSPECT ASBESTOS CONTAINING MATERIALS

TABLE A: SUMMARY OF ASBESTOS CONTAINING MATERIALS
UNIVERSITY OF NORTH ALABAMA CAMPUS
LAGRANGE HALL
FLORENCE, ALABAMA
NOVEMBER 9, 2017

Sample Number	Location	Description	Asbestos	Approximate Quantity	Physical Condition	Abatement / Removal Date
LaGrange Hall – First Floor						
1-1 Layer 1,2 1-2 Layer 1; 1-2 Layer 2; 1-5 Layer 2; 1-5 Layer 3	Room 0107, Room 0126, Room 0116	12x12 Floor Tile and Black Flooring Mastic 9x9 Floor Tile and Black Flooring Mastic	2% - 5% Chrysotile	Approx. 2,355 Square Feet	Good	
1-4	Room 0107 Ceiling	White / Off-White Ceiling Texture	3% - 5% Chrysotile	Approx. 7,660 Square Feet	Good	
1-7	Room 0120	Beige TSI Pipe Elbow	7% Chrysotile	Approx. 1 Elbow	Good	
1-9 Layer 2	Room 0113	Off-White TSI Vessel Insulation	7% Chrysotile 7% Amosite	Approx. 200 Square Feet	Good	
Homogeneous Material	Room 0113	TSI Pipe Insulation / Mastic	5% Chrysotile	Approx. 140 Linear Feet	Good	
1-10	Mechanical Room 0101 Southeast Corner	Off-White TSI Elbow Valve Insulation	5% Chrysotile	Approx. 6 Elbows/Fittings	Good	

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Sample Number	Location	Description	Asbestos	Approximate Quantity	Physical Condition	Abatement / Removal Date
LaGrange Hall – First Floor Continued						
1-11 Layer 1 1-12 Layer 3	Mechanical Room 0125 Northeast Corner and Pipe Chase	Gray TSI Pipe Insulation & Black Mastic	3% Chrysotile	Approx. 375 Linear Feet	Good	

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Sample Number	Location	Description	Asbestos	Approximate Quantity	Physical Condition	Abatement / Removal Date
LaGrange Hall – Second Floor						
2-1 Layer 1 & 2; 2-7 Layer 2	Room 0223, Room 0221	9x9,12x12 Floor Tile and/or Flooring Mastic	3% - 5% Chrysotile	Approx. 6,360 Square Feet	Good	
2-2	Room 0223	White / Off-White Ceiling Texture	3% Chrysotile	Approx. 7,660 Square Feet	Good	
2-3	Hall 0220 Ceiling	Ceiling Plaster	3% Chrysotile	Approx. 1,320 Square Feet	Good	
2-5 Layer 5 2-4 Layer 2	Room 0229	White TSI Valve / Elbow Pipe Insulation	7% Chrysotile	Approx. 16 Fittings	Good	

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Sample Number	Location	Description	Asbestos	Approximate Quantity	Physical Condition	Abatement / Removal Date
LaGrange Hall – Third Floor						
3-1 Layer 1; Layer 2	Room 0301	9x9 & 12x12 Floor Tile and/or Black Mastic	3% - 5% Chrysotile	Approx. 6,220 Square Feet	Good	
3-3	Room 0318	White / Of-White Ceiling Texture	7% Chrysotile	Approx. 7,660 Square Feet	Good	
3-4	Hall 0320 Ceilings	Ceiling Plaster	3% Chrysotile	Approx. 1,320 Square Feet	Good	
3-5 Layer 5	Room 0329	Off-White TSI Valve Pipe Insulation	7% Chrysotile	Approx. 16 Fittings	Good	
3-7 Layer 2	Room 0329	TSI Pipe Insulation / Mastic	5% Chrysotile	Approx. 140 Linear Feet	Good	

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LaGrange Hall – Fourth Floor						
4-1 Layer 1; Layer 2	Room 0405	9x9 Floor Tile and Black Flooring Mastic	3% - 5% Chrysotile	Approx. 6,220 Square Feet	Good	
4-2,	Room 0410	White / Off-White Ceiling Texture	5% Chrysotile	Approx. 7,660 Square Feet	Good	
4-4	Room 0423	Off-White Interior Window Glazing	2% Chrysotile	Approx. 60 Windows	Good	
4-3	Hall 0430 Ceilings	Ceiling Plaster	3% Chrysotile	Approx. 1,320 Square Feet	Good	
4-7 Layer 2	Room 0427	Off-White TSI Valve / Elbow Insulation	5% Chrysotile	Approx. 16 Fittings	Good	
4-8 Layer 2	Room 0427	TSI Insulation / Mastic	7% Chrysotile	Approx. 140 Linear Feet	Good	

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LaGrange Hall – Fifth Floor						
5-1,5-2 Layer 1, Layer 2, Layer 3,	Room 0513 and 0517	9x9, 12x12 Floor Tile and Flooring Mastic	2% - 7% Chrysotile	Approx. 6,220 Square Feet	Good	
5-2	Room 0513 Ceiling	White / Off-White Ceiling Texture	5% Chrysotile	Approx. 7,660 Square Feet	Good	
5-4	Hall 0520 Ceiling	White Ceiling Plaster	3% Chrysotile	Approx. 1,320 Square Feet	Good	
Homogeneous Material	Room 0529	TSI Pipe Insulation/Mastic	5% - 7% Chrysotile	Approx. 140 Linear Feet	Damaged	
5-7 Layer 2 5-6 Layer 2	Room 0529	Off-White TSI Off-White TSI 12” Valve Elbow Pipe Insulation	10% Chrysotile	Approx. 16 Elbows/Fittings	Good	

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Sample Number	Location	Description	Asbestos	Approximate Quantity	Physical Condition	Abatement / Removal Date
LaGrange Hall – Roof						
R-4, R-5 Layer 1	West and East Roof	Black Roofing Flashing	10% Chrysotile	Approx. 2,080 Square Feet	Good	

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TABLE B: SUMMARY OF SAMPLE RESULTS FOR SUSPECT ASBESTOS CONTAINING MATERIALS
UNIVERSITY OF NORTH ALABAMA CAMPUS
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Sample Number	Location	Description	Asbestos	Other Fibrous	Non-Fibrous
LaGrange Hall - First Floor					
1-1 Layer 1	Room 0107	12x12 Tan Floor Tile	2% Chrysotile	None Detected	98%
1-1 Layer 2		Black Mastic	5% Chrysotile	None Detected	95%
1-2 Layer 1	Room 0126	9x9 Brown Floor Tile	5% Chrysotile	None Detected	95%
1-2 Layer 2		Black Mastic	5% Chrysotile	None Detected	95%
1-3 Layer 1	Room 0110	Gray Resinous Material	None Detected	None Detected	100%
1-3 Layer 2		12x12 Off-White Floor Tile	None Detected	None Detected	100%
1-3 Layer 3		Yellow Mastic	None Detected	None Detected	100%
1-4	Room 0107 Ceiling	White / Off-White Ceiling Texture	2% Chrysotile	None Detected	98%
1-5 Layer 1	Room 0116	Yellow Mastic (under carpet)	None Detected	None Detected	100%

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Sample Number	Location	Description	Asbestos	Other Fibrous	Non-Fibrous
LaGrange Hall - First Floor					
1-5 Layer 2	Room 0116	9x9 Blue Floor Tile (under carpet)	5% Chrysotile	None Detected	95%
1-5 Layer 3		Black Mastic (under carpet)	3% Chrysotile	2% Cellulose	95%
1-6 Layer 1	Room 0116 Plaster Wall	Multi-Colored Paint	None Detected	None Detected	100%
1-6 Layer 2		White Skim Coat Plaster	None Detected	None Detected	100%
1-6 Layer 3		Brown Rough Coat Plaster	None Detected	None Detected	100%
1-7	Room 0120	Beige TSI Pipe Elbow	7% Chrysotile	15% Mineral Wool	78%
1-8	Room 0113	Beige TSI Valve Pipe Insulation	None Detected	40% Mineral Wool	60%
1-9 Layer 1	Room 0113	Off-White TSI Vessel Wrap	None Detected	80% Cellulose	20%
1-9 Layer 2		Off-White TSI Vessel Pipe Insulation	7% Chrysotile 7% Amosite	None Detected	86%

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Sample Number	Location	Description	Asbestos	Other Fibrous	Non-Fibrous
LaGrange Hall - First Floor					
1-10	Mechanical Room 0101 Southeast Corner	Off-White TSI Elbow Pipe Insulation	5% Chrysotile	15% Mineral Wool	80%
1-11 Layer 1	Mechanical Room 0125 Northeast Corner	Gray TSI Valve Pipe Insulation	3% Chrysotile	15% Mineral Wool	82%
1-11 Layer 2		Black Foam Material	None Detected	None Detected	100%
1-12 Layer 1	Mechanical Room 0125 Northeast Corner	Brown TSI Riser Wrap	None Detected	80% Cellulose	20%
1-12 Layer 2		Black Foam Material	None Detected	None Detected	100%
1-12 Layer 3		Black Mastic	7% Chrysotile	None Detected	93%
1-13 Layer 1	Room 0125 North	White Mastic on Fiberglass TSI	None Detected	3% Fiberglass 3% Wollastonite	94%
1-13 Layer 2		Yellow TSI Insulation Material	None Detected	80% Fiberglass	20%
1-14	West Mechanical Room Exterior Door	Off-White Exterior Door Caulk	None Detected	None Detected	100%

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Sample Number	Location	Description	Asbestos	Other Fibrous	Non-Fibrous
LaGrange Hall – Second Floor					
2-1 Layer 1	Room 0223	9x9 Brown Floor Tile	5% Chrysotile	None Detected	95%
2-1 Layer 2		Black Mastic	3% Chrysotile	2% Cellulose	95%
2-2	Room 0223 Ceiling	White / Off-White Ceiling Texture	3% Chrysotile	None Detected	97%
2-3	Hall 0220 Ceiling	White / Off-White Ceiling Texture	3% Chrysotile	None Detected	97%
2-4 Layer 1	Room 0229	Off-White TSI Elbow Wrap	None Detected	85% Cellulose	15%
2-4 Layer 2		Off-White TSI Elbow Pipe Insulation	7% Chrysotile	15% Mineral Wool	78%
2-5 Layer 1	Room 0229	Off-White / Silver TSI Valve Fitting Wrap and Mastic	None Detected	60% Cellulose	40%
2-5 Layer 2		Off-White TSI Valve Fitting Wrap	None Detected	85% Cellulose	15%
2-5 Layer 3		Black Mastic	None Detected	None Detected	100%

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Sample Number	Location	Description	Asbestos	Other Fibrous	Non-Fibrous
LaGrange Hall – Second Floor					
2-5 Layer 4	Room 0229	Black Foam Material	None Detected	None Detected	100%
2-5 Layer 5		White TSI Valve Pipe Insulation	7% Chrysotile	10% Mineral Wool	83%
2-6 Layer 1	Room 0229	Off-White / Brown TSI Riser Wrap	None Detected	85% Cellulose	15%
2-6 Layer 2		Black Foam Material	None Detected	None Detected	100%
2-6 Layer 3		Black Mastic	10% Chrysotile	15% Fiberglass	75%
2-7 Layer 1	Room 0221	12x12 Beige / Gray Floor Tile	None Detected	None Detected	100%
2-7 Layer 2		Black Mastic	5% Chrysotile	None Detected	95%
2-8 Layer 1	Hall 0231	12x12 Gray Floor Tile	None Detected	None Detected	100%
2-8 Layer 2		Yellow Mastic	None Detected	None Detected	100%

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Sample Number	Location	Description	Asbestos	Other Fibrous	Non-Fibrous
LaGrange Hall – Second Floor					
2-8 Layer 3	Hall 0231	White Leveling Compound	None Detected	None Detected	100%
2-9	Rear Entry Door Exterior	Gray Exterior Door Caulk	None Detected	None Detected	100%
2-10	Northwest Exterior Windows	Beige Exterior Window Caulk	None Detected	None Detected	100%
2-11	Northeast Exterior Windows	Beige Exterior Window Caulk	None Detected	None Detected	100%

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Sample Number	Location	Description	Asbestos	Other Fibrous	Non-Fibrous
LaGrange Hall – Third Floor					
3-1 Layer 1	Room 0301	9x9 Brown Floor Tile	5% Chrysotile	None Detected	95%
3-1 Layer 2		Black Mastic	3% Chrysotile	None Detected	97%
3-2 Layer 1	Room 0307	12x12 Beige Floor Tile	None Detected	None Detected	100%
3-2 Layer 2		Black Mastic	7% Chrysotile	None Detected	93%
3-3	Room 0318 Ceiling	White / Off-White Ceiling Texture	5% Chrysotile	None Detected	95%
3-4	Hall 0320 Ceiling	White / Off-White Ceiling Plaster	3% Chrysotile	None Detected	97%
3-5 Layer 1	Room 0329	Black Mastic	None Detected	3% Cellulose	97%
3-5 Layer 2		Black / Off-White TSI Riser Wrap	None Detected	60% Cellulose 20% Fiberglass	20%
3-5 Layer 3		Black Foam Material	None Detected	None Detected	100%

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Sample Number	Location	Description	Asbestos	Other Fibrous	Non-Fibrous
LaGrange Hall – Third Floor					
3-6 Layer 1	Room 0329	Off-White / Silver TSI Valve Wrap	None Detected	60% Cellulose	40%
3-6 Layer 2		Black Mastic	None Detected	None Detected	100%
3-6 Layer 3		Off-White TSI Valve Wrap	None Detected	80% Cellulose	20%
3-6 Layer 4		Black Foam Material	None Detected	None Detected	100%
3-6 Layer 5		Off-White TSI Valve Pipe Insulation	7% Chrysotile	10% Mineral Wool	83%
3-7 Layer 1	Room 0329	Off-White TSI Fitting Wrap	None Detected	80% Cellulose	20%
3-7 Layer 2		Off-White TSI Fitting Pipe Insulation	5% Chrysotile	10% Mineral Wool	85%
3-8 Layer 1	Room 0329	Off-White / Silver / Black TSI Fiberglass Wrap and Mastic	None Detected	60% Cellulose	40%
3-8 Layer 2		Black Mastic	None Detected	None Detected	100%

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Sample Number	Location	Description	Asbestos	Other Fibrous	Non-Fibrous
LaGrange Hall – Third Floor					
3-8 Layer 3	Room 0329	Yellow TSI Insulation Material	None Detected	80% Fiberglass	20%
3-9	Room 0329	Gray HVAC Vibration Dampener	None Detected	75% Cellulose	25%

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Sample Number	Location	Description	Asbestos	Other Fibrous	Non-Fibrous
LaGrange Hall – Fourth Floor					
4-1 Layer 1	Room 0405	9x9 Brown Floor Tile	5% Chrysotile	None Detected	95%
4-1 Layer 2		Black Mastic	3% Chrysotile	None Detected	97%
4-2	Room 0410 Ceiling	White / Off-White Ceiling Texture	5% Chrysotile	None Detected	95%
4-3	Hall 430 Ceiling	White / Off-White Ceiling Texture	5% Chrysotile	None Detected	95%
4-4	Room 0423 Interior Window	Off-White Interior Window Glazing	2% Chrysotile	2% Talc	96%
4-5 Layer 1	Room 0427	Black / Orange TSI Riser Mastic	None Detected	3% Cellulose	97%
4-5 Layer 2		Black TSI Riser Foam Material	None Detected	None Detected	100%
4-6 Layer 1	Room 0427	Gray TSI Elbow Wrap	None Detected	80% Cellulose	20%
4-6 Layer 2		Off-White TSI Elbow Pipe Insulation	5% Chrysotile	10% Mineral Wool	85%

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Sample Number	Location	Description	Asbestos	Other Fibrous	Non-Fibrous
LaGrange Hall – Fourth Floor					
4-7 Layer 1	Room 0427	Off-White TSI Valve Fitting Wrap	None Detected	75% Cellulose	25%
4-7 Layer 2		Off-White TSI Valve Pipe Insulation	5% Chrysotile	15% Mineral Wool	80%
4-8 Layer 1	Room 0427	Off-White TSI Fitting Wrap	None Detected	80% Cellulose	20%
4-8 Layer 2		Off-White TSI Fitting Pipe Insulation	7% Chrysotile	15% Mineral Wool	78%
4-9 Layer 1	Room 0427	Brown / Black / Silver TSI Riser Wrap and Mastic	None Detected	60% Cellulose	40%
4-9 Layer 2		Black Mastic	None Detected	None Detected	100%
4-9 Layer 3		Light Yellow TSI Insulation Material	None Detected	85% Fiberglass	15%
4-10	Room 0427	Brown HVAC Vibration Dampener	None Detected	70% Cellulose	30%
4-11	Hall 0418 Black Window Ledge	Gray Black Window Ledge Slate / Phyllite	None Detected	None Detected	100%

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Sample Number	Location	Description	Asbestos	Other Fibrous	Non-Fibrous
LaGrange Hall – Fourth Floor					
4-12	Room 0409 Black Window Ledge	Gray Black Window Ledge Slate / Phyllite	None Detected	None Detected	100%

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Sample Number	Location	Description	Asbestos	Other Fibrous	Non-Fibrous
LaGrange Hall – Fifth Floor					
5-1 Layer 1	Room 0513	9x9 Brown Floor Tile	5% Chrysotile	None Detected	95%
5-2 Layer 2		Black Mastic	7% Chrysotile	None Detected	93%
5-2	Room 0513 Ceiling	White / Off-White Ceiling Texture	5% Chrysotile	None Detected	95%
5-3 Layer 1	Room 0517	12x12 White Floor Tile	None Detected	None Detected	100%
5-3 Layer 2		Black Mastic	2% Chrysotile	None Detected	98%
5-3 Layer 3		Brown Mastic	2% Chrysotile	None Detected	98%
5-4	Hall 0520 Ceiling	White Ceiling Plaster	3% Chrysotile	None Detected	97%
5-5 Layer 1	Room 0529	Brown / Off-White TSI Riser Wrap	None Detected	80% Cellulose	20%
5-5 Layer 2		Black Foam Material	None Detected	None Detected	100%

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Sample Number	Location	Description	Asbestos	Other Fibrous	Non-Fibrous
LaGrange Hall – Fifth Floor					
5-6 Layer 1	Room 0529	Off-White TSI 12" Valve Fitting Wrap	None Detected	80% Cellulose	20%
5-6 Layer 2		Off-White TSI Valve Fitting Pipe Insulation	7% Chrysotile	15% Mineral Wool	78%
5-7 Layer 1	Room 0529	Off-White TSI Elbow Wrap	None Detected	80% Cellulose	20%
5-7 Layer 2		Off-White TSI Elbow Pipe Insulation	10% Chrysotile	15% Mineral Wool	75%
5-8	Room 0529	Gray HVAC Vibration Dampener	None Detected	80% Cellulose	20%

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Sample Number	Location	Description	Asbestos	Other Fibrous	Non-Fibrous
LaGrange Hall – Roof					
R-1 Layer 1	Roof - West Field	Speckled / Black Roofing Shingle	None Detected	20% Synthetic Fibers	80%
R-1 Layer 2		Black Roofing Tar	None Detected	None Detected	100%
R-1 Layer 3		Black Roofing Felt	None Detected	30% Fiberglass 5% Cellulose	65%
R-1 Layer 4		Brown Roofing Insulation	None Detected	70% Cellulose	30%
R-2 Layer 1	Roof - Center Field (Patch)	Speckled / Black Roofing Shingle	None Detected	20% Synthetic Fibers	80%
R-2 Layer 2		Speckled / Black Roofing Shingle	None Detected	30% Synthetic Fibers	70%
R-2 Layer 3		Black Roofing Tar	None Detected	3% Cellulose	97%
R-2 Layer 4		Black Roofing Felt	None Detected	30% Fiberglass 5% Cellulose	65%
R-2 Layer 5		Brown Roofing Insulation	None Detected	70% Cellulose	30%

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TABLE B: SUMMARY OF SAMPLE RESULTS FOR SUSPECT ASBESTOS CONTAINING MATERIALS
UNIVERSITY OF NORTH ALABAMA CAMPUS
LAGRANGE HALL
FLORENCE, ALABAMA
NOVEMBER 9, 2017

Sample Number	Location	Description	Asbestos	Other Fibrous	Non-Fibrous
LaGrange Hall – Roof					
R-3 Layer 1	Roof - East Field	Speckled / Black Roofing Shingle	None Detected	20% Synthetic Fibers	80%
R-3 Layer 2		Black Roofing Tar	None Detected	None Detected	100%
R-3 Layer 3		Black Roofing Felt	None Detected	35% Fiberglass	65%
R-3 Layer 4		Brown Roofing Insulation	None Detected	70% Cellulose	30%
R-4 Layer 1	Roof Flashing - West	Black Roofing Flashing	10% Chrysotile	None Detected	90%
R-4 Layer 2		Speckled / Black Roofing Shingle	None Detected	10% Synthetic Fibers	90%
R-5 Layer 1	Roof Flashing - East	Black Roofing Flashing	10% Chrysotile	None Detected	90%
R-5 Layer 2		Speckled / Black Roofing Shingle	None Detected	20% Synthetic Fibers	80%
R-6	Roof Hatch Penetration	Black / Gray Roofing Mastic	None Detected	None Detected	100%

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APPENDIX B

PHOTOGRAPHIC DOCUMENTATION

Photographic Documentation

Ceiling Texture Room 107
Sample 1-4

Brown 9x9 Floor Tile Room 126
Sample 1-2

Tan Speckled 12x12 Floor Tile Room 0107
Sample 1-1

Off White Speckled 12x12 Floor Tile
Room 0110
Sample 1-3

Photographic Documentation

9x9 Brown Under 12x12 Room 0106

Brown 9x9 Under 12x12 Room 0111

Brown 9x9 under Laminate Room 0116

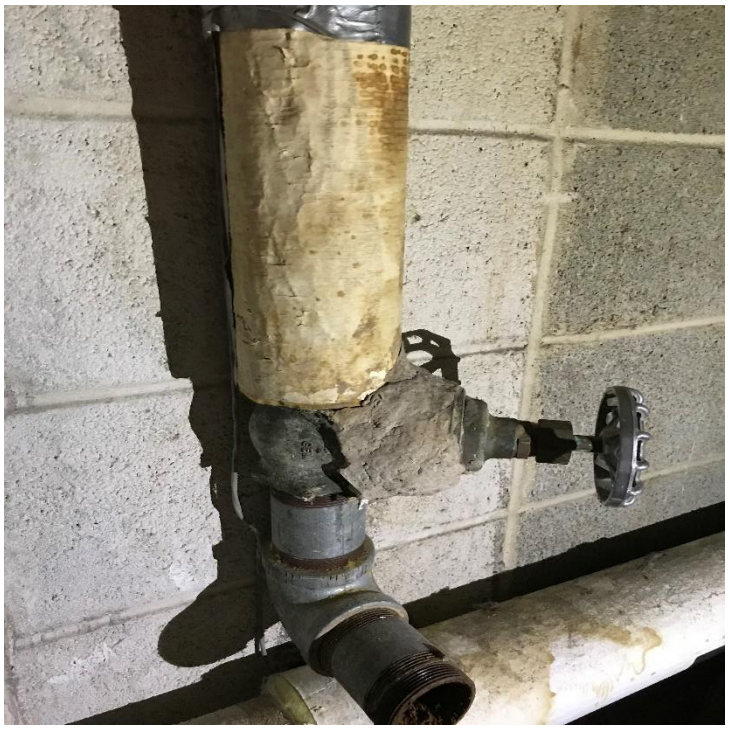
Blue 9x9 Floor Tile Under Carpet Room 0116 Sample 1-5

Photographic Documentation

Wall Plaster Room 0116
Sample 1-6

9x9 Brown Under 12x12 Room 0116

Elbow Insulation Room 0120
Sample 1-7



Valve insulation Room 0113
Sample 1-8

Photographic Documentation

Vessel Insulation Room 0113
Sample 1-9

Brown 9x9 Floor Tile Room 223
Sample 2-1

Ceiling Texture Room 0223
Sample 2-2

Ceiling Plaster, East Hall 0220
Sample 2-3

Photographic Documentation

TSI Elbow Room 0229
Sample 2-4

TST Room 0229

Black Mastic Under Wrap Room 0229
Sample 2-6

Black Mastic Under Wrap Room 0229

Photographic Documentation

TSI Room 0125

Pipes Entering Room 0125 From Room 0113

Black Slate Window Ledge Room 0409
Sample 4-12

Interior Window Caulk Room 0423
Sample 4-4

Photographic Documentation

Exterior Window Caulk Northeast
Sample 2-11

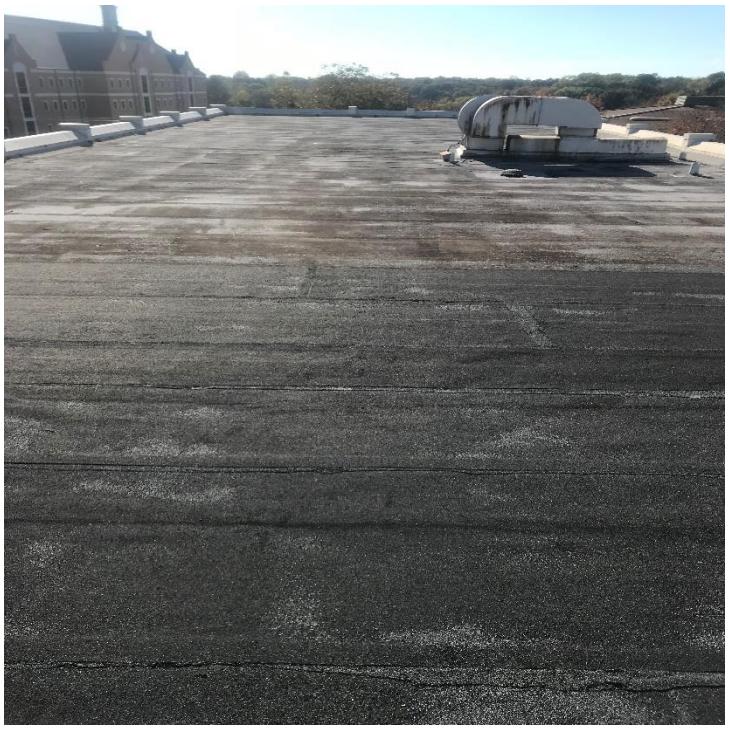
North Exterior Door Caulk
Sample 2-9

HVAC Vibration Dampener Room 0427
Sample 4-10

TSI and Black Mastic Room 0427
Sample 4-5

Photographic Documentation

TSI Elbow Room 0427
Sample 4-6



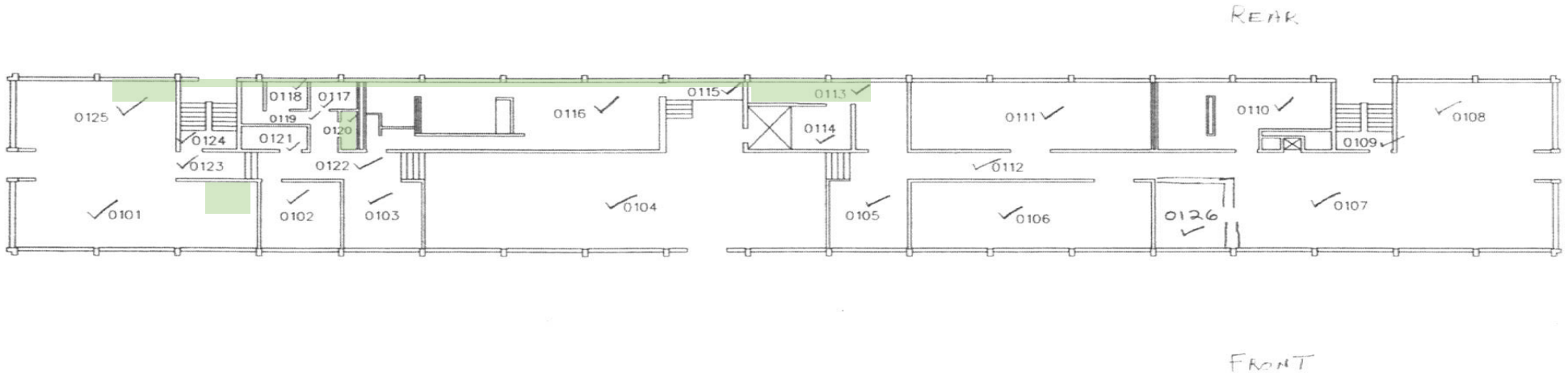
Roof
General Condition

Roof Core Sample, West Field Sample R-1

Roof Flashing Sample, East
Sample R-3

APPENDIX C

DRAWINGS

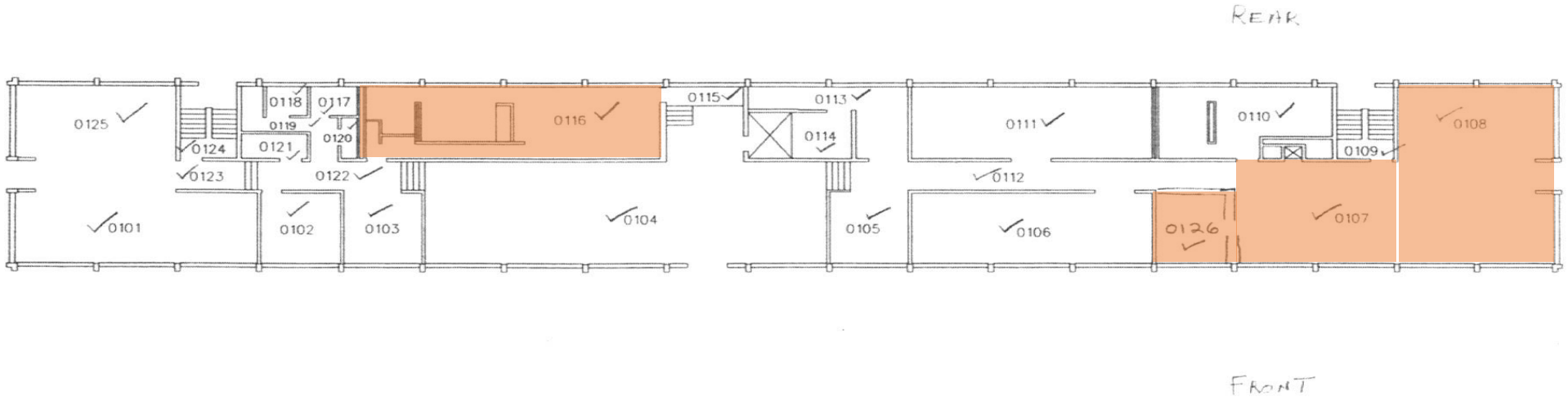


Thermal System Insulation

5 10 20 50

BLDG 036 — LAGRANGE HALL — 1ST FLOOR

Terrell Technical Services, Inc.	Project # 2017-1035	November 9, 2017

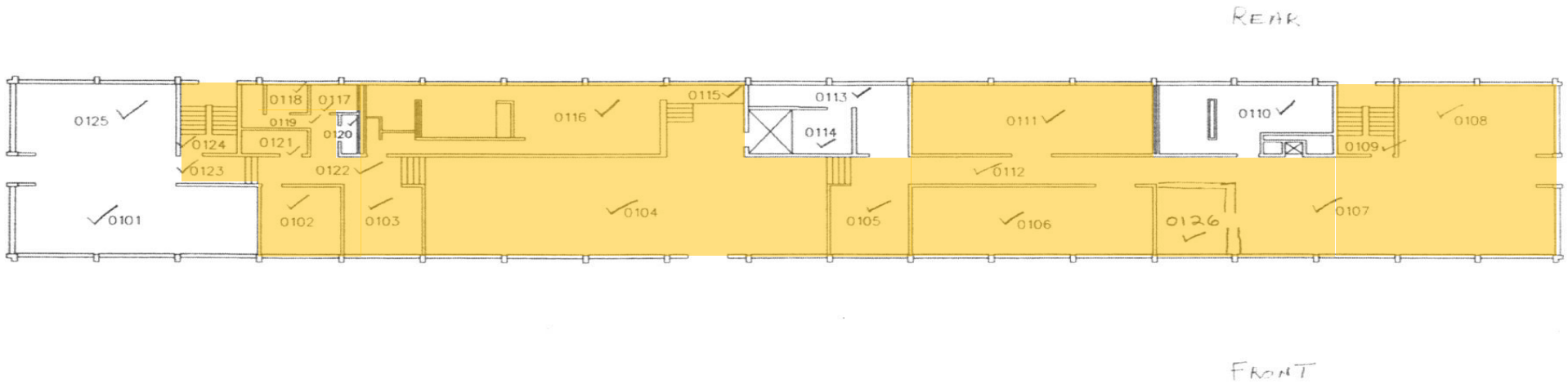


ACM Flooring

5 10 20 50

BLDG 036 — LAGRANGE HALL — 1ST FLOOR

Terrell Technical Services, Inc.	Project # 2017-1035	November 9, 2017

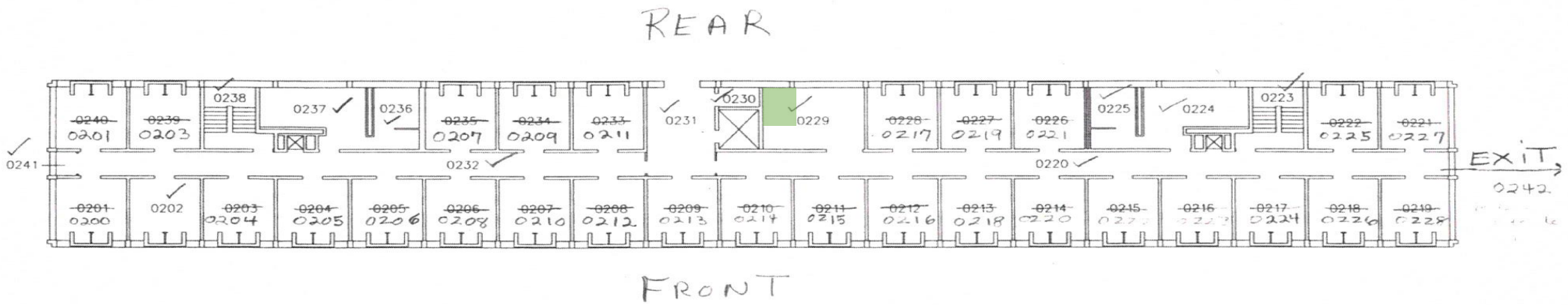


5 10 20 50

ACM Ceiling Texture

BLDG 036 — LAGRANGE HALL — 1ST FLOOR

Terrell Technical Services, Inc.	Project # 2017-1035	November 9, 2017

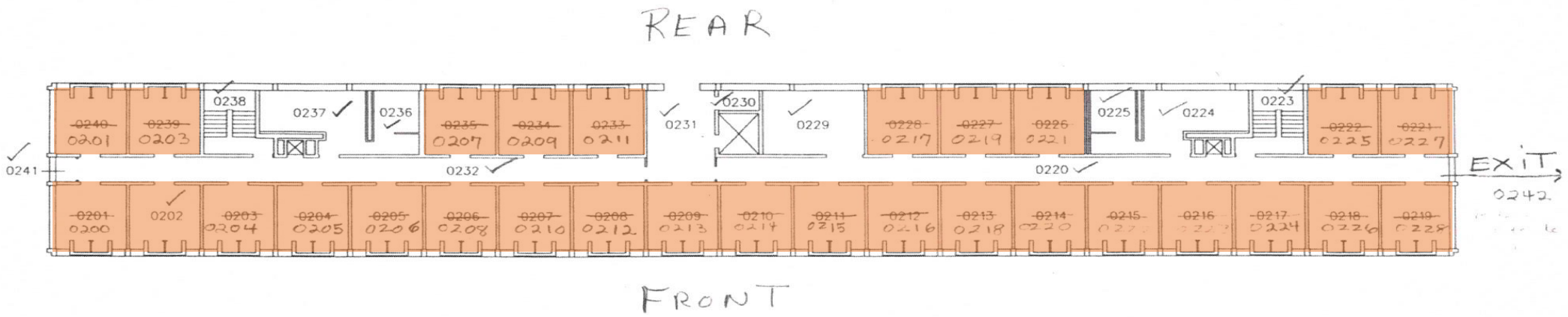


Thermal System Insulation

0 5 10 20 50

BLDG 036 – LAGRANGE HALL – 2ND FLOOR

Terrell Technical Services, Inc.	Project # 2017-1035	November 9, 2017

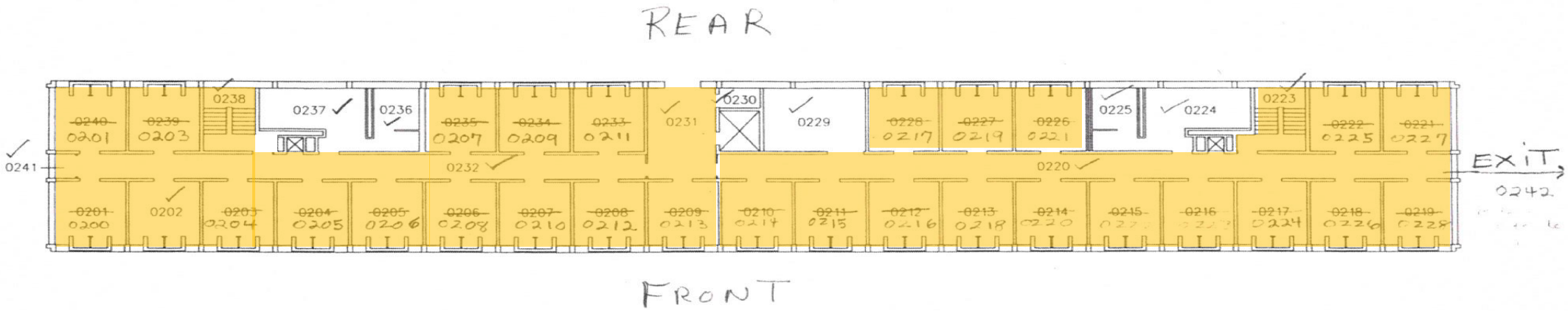


ACM Flooring

0 5 10 20 50

BLDG 036 – LAGRANGE HALL – 2ND FLOOR

Terrell Technical Services, Inc.	Project # 2017-1035	November 9, 2017

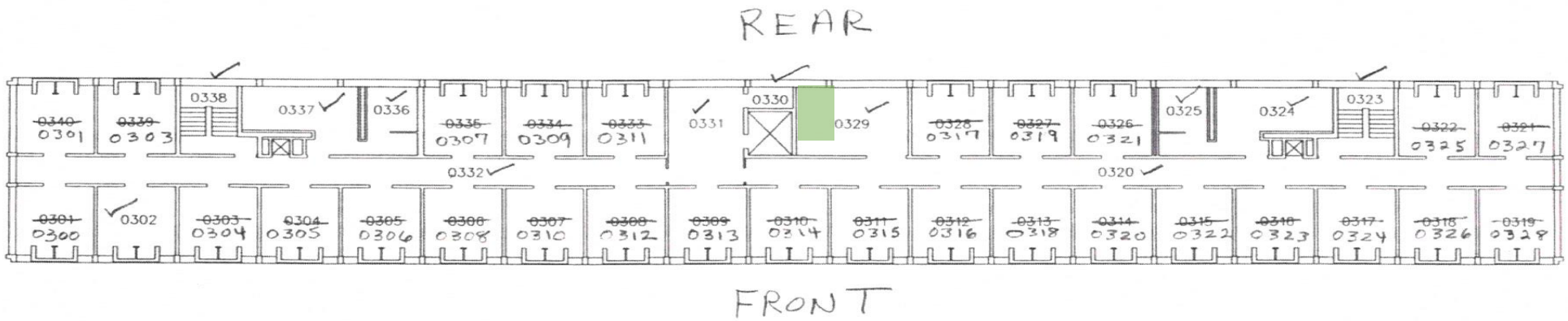


ACM Ceiling Texture

0 5 10 20 50

BLDG 036 – LAGRANGE HALL – 2ND FLOOR

Terrell Technical Services, Inc.	Project # 2017-1035	November 9, 2017

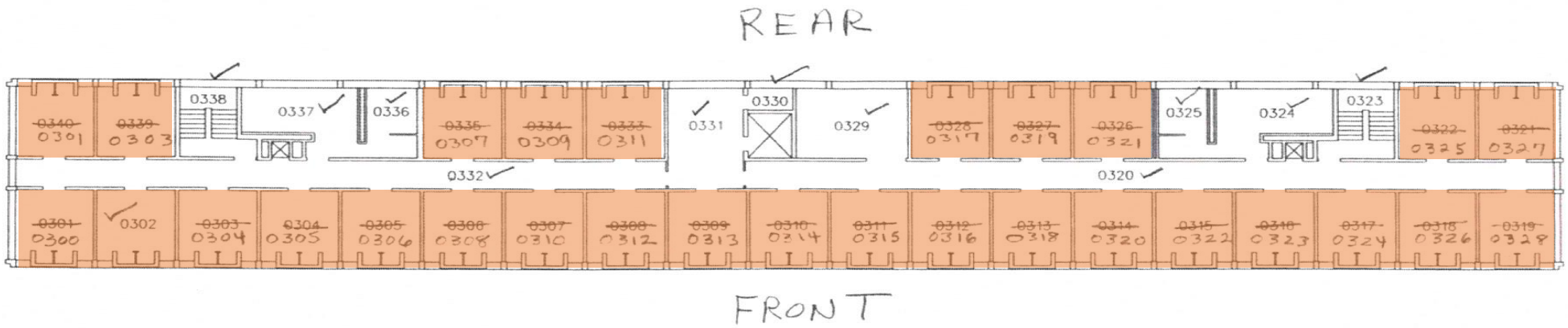


Thermal System Insulation

5 10 20 50

BLDG 036 — LAGRANGE HALL — 3RD FLOOR

Terrell Technical Services, Inc.	Project # 2017-1035	November 9, 2017

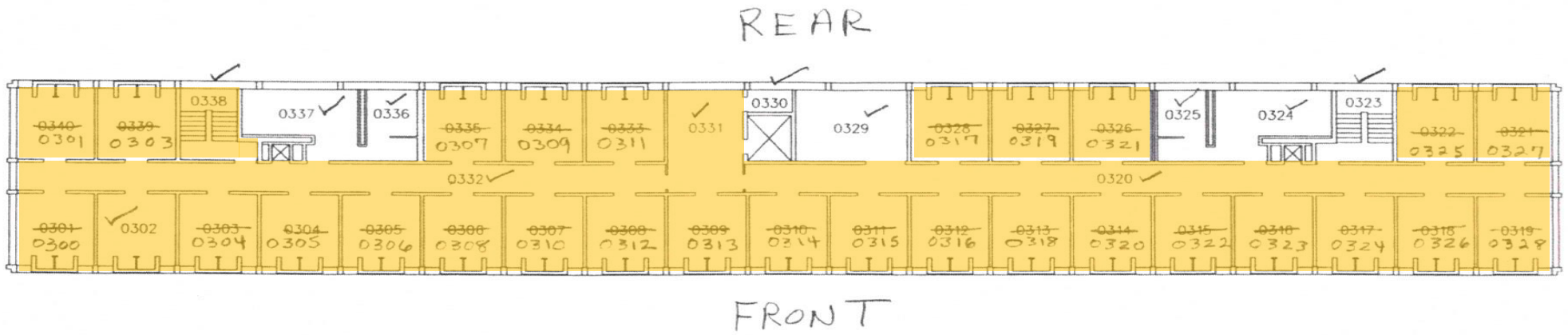


ACM Flooring

5 10 20 50

BLDG 036 — LAGRANGE HALL — 3RD FLOOR

Terrell Technical Services, Inc.	Project # 2017-1035	November 9, 2017

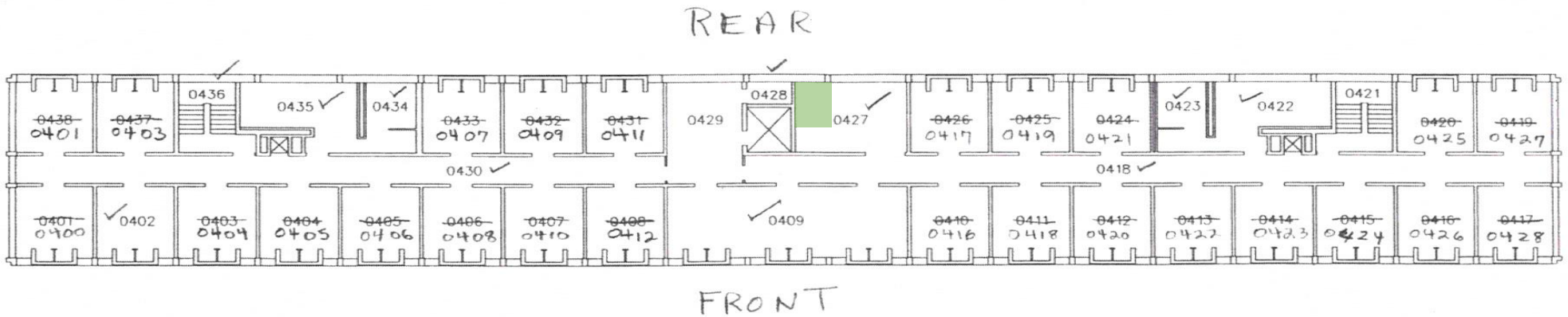


ACM Ceiling Texture

5 10 20 50

BLDG 036 — LAGRANGE HALL — 3RD FLOOR

Terrell Technical Services, Inc.	Project # 2017-1035	November 9, 2017

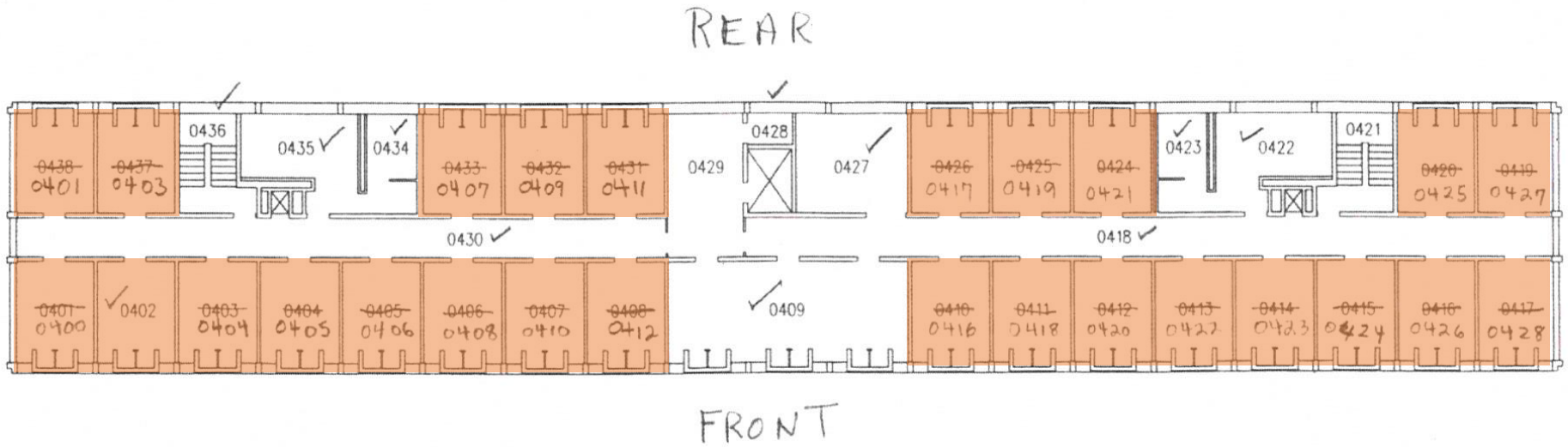


Thermal System Insulation

0 5 10 20 50

BLDG 036 — LAGRANGE HALL — 4TH FLOOR

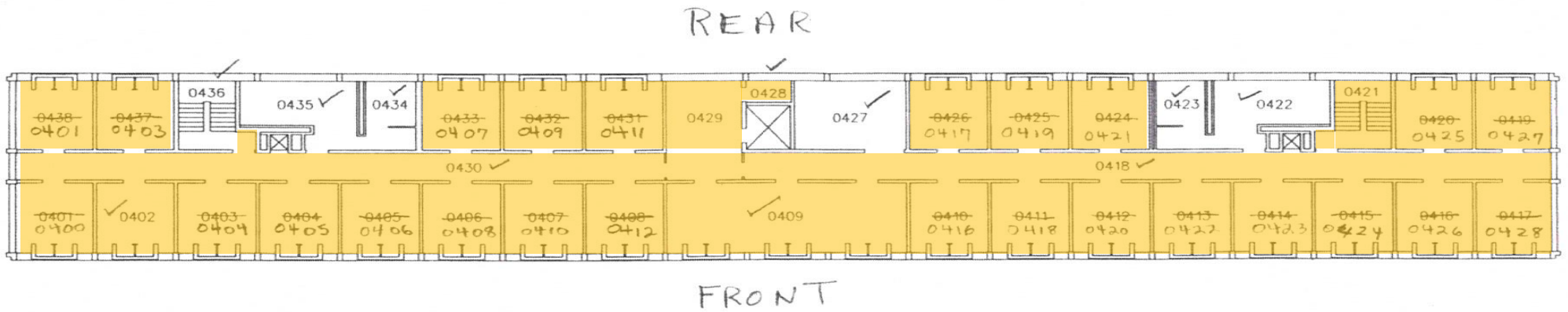
Terrell Technical Services, Inc.	Project # 2017-1035	November 9, 2017



ACM Flooring

0 5 10 20 50

BLDG 036 – LAGRANGE HALL – 4TH FLOOR



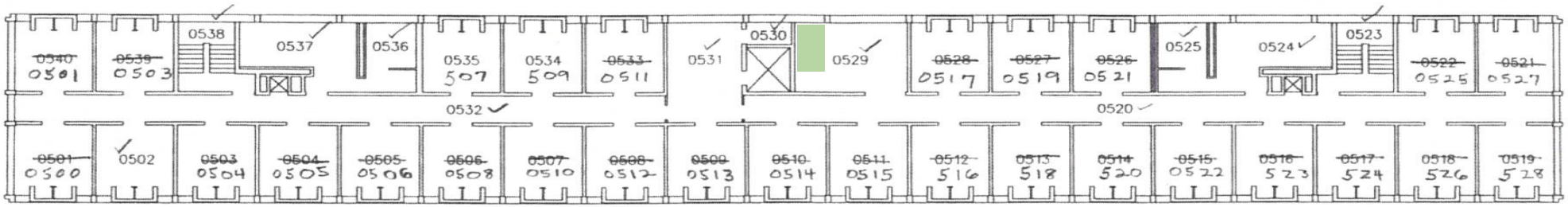
ACM Ceiling Texture

5 10 20 50

BLDG 036 — LAGRANGE HALL — 4TH FLOOR

Terrell Technical Services, Inc.	Project # 2017-1035	November 9, 2017

REAR



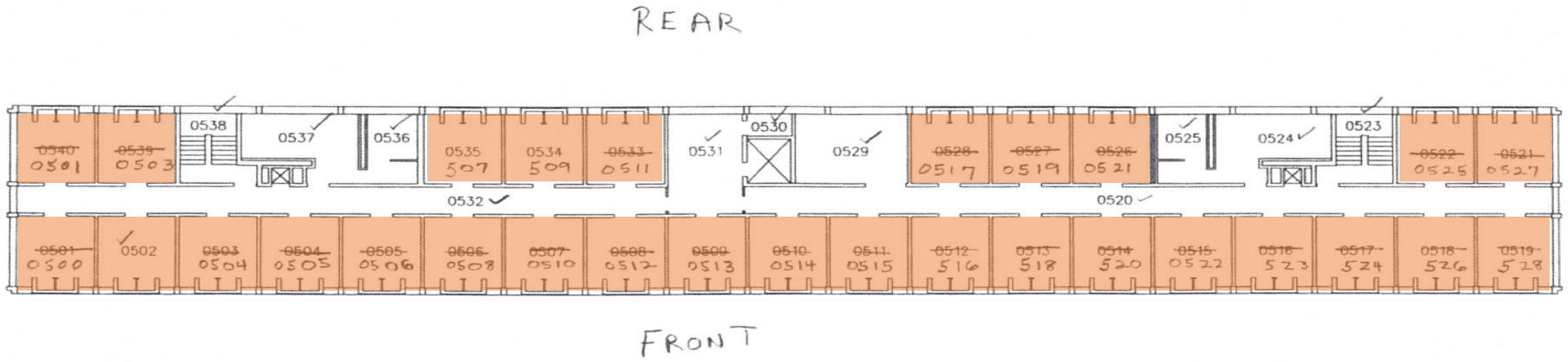
FRONT

5 10 20 50

Thermal System Insulation

BLDG 036 — LAGRANGE HALL — 5TH FLOOR

Terrell Technical Services, Inc.	Project # 2017-1035	November 9, 2017

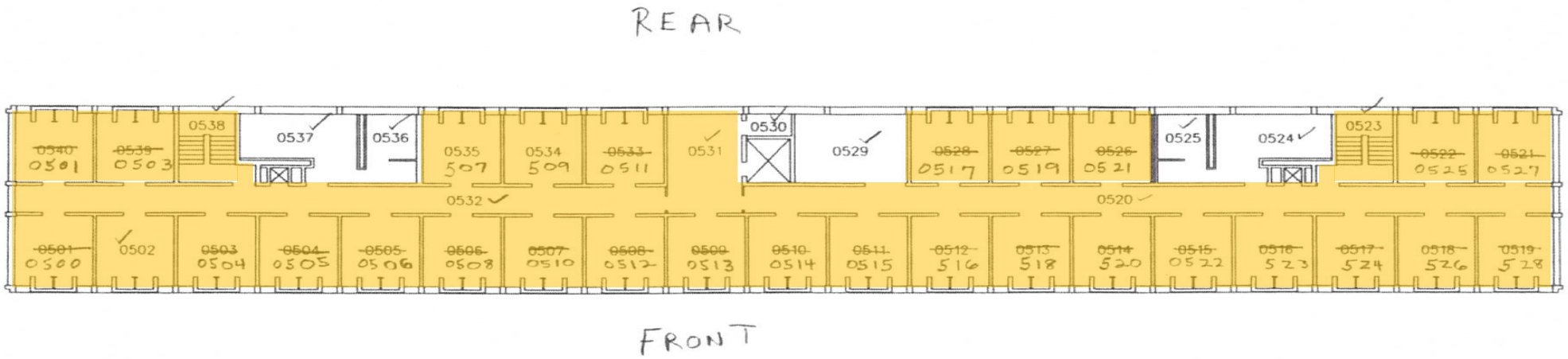


ACM Flooring

5 10 20 50

BLDG 036 — LAGRANGE HALL — 5TH FLOOR

Terrell Technical Services, Inc.	Project # 2017-1035	November 9, 2017

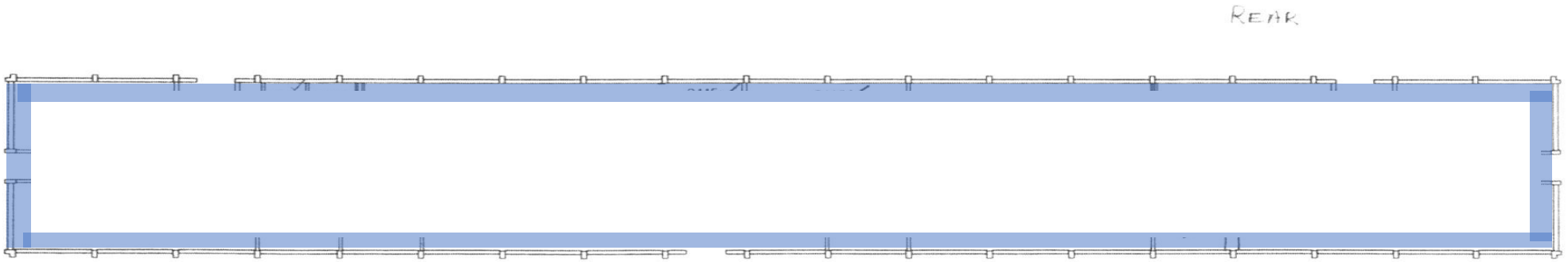


ACM Ceiling Texture

5 10 20 50

BLDG 036 — LAGRANGE HALL — 5TH FLOOR

Terrell Technical Services, Inc.	Project # 2017-1035	November 9, 2017



ACM Roof Flashing

5 10 20 50

BLDG 036 -- ROOF

APPENDIX D

LABORATORY DOCUMENTATION

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Terrell Technical Services, Inc.**
9582 Madison Blvd, Suite 9
Madison, AL 35758

Telephone: **256-461-9278** Fax: **256-461-9279**

TTSI Project #: **2017-1035**

Job Name: **UNA LaGrange Hall – 1st Floor**

SELC Project #: **2017-1939**

Sample Receipt Date: 11/13/2017

Sample Analysis Date: 11/13/2017 – 11/14/2017

Sample Report Date: 11/14/2017

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy

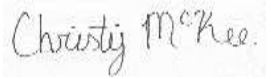
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials

Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
1-1	01	N/A		12 x 12 Tan/Speckled FT&M – Room 0107				
			1	Floor Tile – Tan, Resinously Bound	Y	2% Chrysotile	None Detected	98%
			2	Mastic – Black, Organically Bound	Y	5% Chrysotile	None Detected	95%
1-2	02	N/A		9 x 9 Brown FT&M – Room 0126				
			1	Floor Tile – Brown, Resinously Bound	Y	5% Chrysotile	None Detected	95%
			2	Mastic – Black, Organically Bound	Y	5% Chrysotile	None Detected	95%
1-3	03	N/A		12 x 12 Off-white/Speckled FT&M – Room 0110				
			1	Resinous Material – Gray, Resinously Bound	Y	None Detected	None Detected	100%
			2	Floor Tile – Off-white, Resinously Bound	Y	None Detected	None Detected	100%
			3	Mastic – Yellow, Organically Bound	Y	None Detected	None Detected	100%
1-4	04	N/A	1	Ceiling Texture – Room 0107 Ceiling Texture – White/Off-white, Granular	Y	2% Chrysotile	None Detected	98%
1-5	05	N/A		9 x 9 Blue FT&M under Carpet – Room 0116				
			1	Mastic – Yellow, Organically Bound	Y	None Detected	None Detected	100%
			2	Floor Tile – Blue, Resinously Bound	Y	5% Chrysotile	None Detected	95%

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager



Quality Review
Christy McKee – Microscopy Analyst

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Safety Environmental Laboratories and Consulting, Inc.

989 Yeager Pkwy.
Pelham, AL 35124

Phone: (205) 823-6200
Fax: (205) 823-9066

LAB CODE: 200873-0

Asbestos Bulk Sample Analysis Report

Customer: **Terrell Technical Services, Inc.**
9582 Madison Blvd, Suite 9
Madison, AL 35758

Telephone: **256-461-9278** Fax: **256-461-9279**

TTSI Project #: **2017-1035**

Job Name: **UNA LaGrange Hall – 1st Floor**

SELC Project #: **2017-1939**

Sample Receipt Date: 11/13/2017

Sample Analysis Date: 11/13/2017 – 11/14/2017

Sample Report Date: 11/14/2017

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy

Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials

Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
			3	Mastic – Black, Organically Bound	Y	3% Chrysotile	2% Cellulose Fibers	95%
1-6	06	N/A		Plaster Wall – Room 0116				
			1	Paint – Multi-colored, Soft	N	None Detected	None Detected	100%
			2	Skim Coat Plaster – White, Soft	Y	None Detected	None Detected	100%
			3	Rough Coat Plaster – Brown, Hard, Granular	Y	None Detected	None Detected	100%
1-7	07	N/A	1	TSI Elbow – Room 0120 Pipe Elbow – Beige, Fibrous, Soft	Y	7% Chrysotile	15% Mineral Wool	78%
1-8	08	N/A	1	TSI Valve – Room 0113 Pipe Insulation – Beige, Fibrous, Soft	Y	None Detected	40% Mineral Wool	60%
1-9	09	N/A		TSI Vessel Insulation – Room 0113				
			1	Wrap – Off-white, Fibrous	Y	None Detected	80% Cellulose Fibers	20%
			2	Pipe Insulation – Off-white, Fibrous, Soft	Y	7% Chrysotile 7% Amosite	None Detected	86%
1-10	10	N/A	1	TSI Elbow – Mechanical Room 0101 SE Corner Pipe Insulation – Off-white, Fibrous, Soft	Y	5% Chrysotile	15% Mineral Wool	80%

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Christy McKee – Microscopy Analyst

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989 Yeager Pkwy.
Pelham, AL 35124

Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Asbestos Bulk Sample Analysis Report

Customer: **Terrell Technical Services, Inc.**
9582 Madison Blvd, Suite 9
Madison, AL 35758

Telephone: **256-461-9278** Fax: **256-461-9279**

TTSI Project #: **2017-1035**

Job Name: **UNA LaGrange Hall – 1st Floor**

SELC Project #: **2017-1939**

Sample Receipt Date: 11/13/2017

Sample Analysis Date: 11/13/2017 – 11/14/2017

Sample Report Date: 11/14/2017

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy

Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials

Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
1-11	11	N/A		TSI Valve – Mechanical Room 0125 NE Corner				
			1	Pipe Insulation – Gray, Fibrous, Soft	Y	3% Chrysotile	15% Mineral Wool	82%
			2	Foam Material – Black, Spongy, Brittle	Y	None Detected	None Detected	100%
1-12	12	N/A		TSI Riser – Mechanical Room 0125 NE Corner				
			1	Wrap – Brown, Fibrous	Y	None Detected	80% Cellulose Fibers	20%
			2	Foam Material – Black, Spongy, Brittle	Y	None Detected	None Detected	100%
			3	Mastic – Black, Organically Bound	Y	7% Chrysotile	None Detected	93%
1-13	13	N/A		Mastic on Fiberglass TSI – Room 125 North				
			1	Mastic – White, Organically Bound	Y	None Detected	3% Fiberglass 3% Wollastonite	94%
			2	Insulation Material – Yellow, Fibrous	Y	None Detected	80% Fiberglass	20%
1-14	14	N/A	1	West Mechanical Room Exterior Door Caulk Caulk – Off-white, Rubbery	Y	None Detected	None Detected	100%

☒ This report is **FINAL** ☐ This report is **PRELIMINARY** – pending final QC

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Christy McKee – Microscopy Analyst

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989 Yeager Pkwy.
Pelham, AL 35124

Phone: (205) 823-6200
Fax: (205) 823-9066

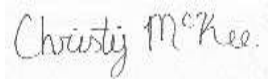
NVLAP LAB CODE: 200873-0

PLM Notes and Descriptions

1. Upper detection limit: 100%. Lower detection limit: <1%.
2. Bulk Samples will be stored for 3 months and will then be disposed of in an approved EPA landfill.
3. Analysis of floor tile or any other resinously bound materials by polarized light microscopy (PLM) using EPA Method 600/R-93/116 dated July 1993 may yield false-negative results because of method limitations in separating closely bound fibers from matrix material and in detecting fibers of small length and/or diameter. When analysis of such materials by the EPA PLM Method yields negative results for the presence of asbestos we recommend utilizing alternative methods of identification such as Gravimetry, XRD or AEM.
4. Samples are not homogenized by SELC prior to analysis. Distinct material layers within a sample are analyzed and reported separately by SELC. When multiple products are submitted by the customer under one sample number, SELC indicates those distinct products as sub-samples. SELC retains all samples numbers but will designate a sample number to those that are not given a sample number by the customer.
5. Percentages given are based on a visual estimated calibration.
6. Safety Environmental Laboratories and Consulting, Inc. is a NVLAP accredited laboratory, Lab Code: 200873-0 (ISO/IEC Standard 17025:2005 Compliant).
7. Results relate only to the samples tested. All tests were performed under the scope of SELC's NVLAP accreditation, unless indicated otherwise.
8. All samples were received in a condition suitable for analysis ("Good"), unless otherwise noted.
9. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
10. Analytical Instrument: Olympus Polarized Light Microscope Series BH-2 Model BHT-002

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager



Quality Review
Christy McKee – Microscopy Analyst

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Safety Environmental Laboratories and Consulting, Inc.

989 Yeager Pkwy. Phone: (205) 823-6200
Pelham, AL 35124 Fax: (205) 823-9066

Environmental, Health, and Safety Solutions

SELC

Chain of Custody Form

Customer: TTSI
Address:
Phone: Fax:
E-mail:

Project Number: 2017-1035
Project Name: UNA
Project Location: LaGrange Hall - 1st Floor
PO Number:
SELC Proj. #: 17-1939

Sample Type
- ☐ Air
- ☒ Bulk
- ☐ Paint
- ☐ Soil
- ☐ Waste
- ☐ Other:

Asbestos Analysis
- ☐ Asbestos Air - PCM
- ☐ Asbestos Air - TEM
- ☒ PLM (EPA 600/R-93/116)
- ☐ PLM (EPA Point Count)
- ☐ Other:

Metals Analysis
- ☐ Total Conc. - Lead
- ☐ Total Conc. - RCRA 8-Metals
- ☐ TCLP - Lead
- ☐ TCLP - RCRA 8-Metals
- ☐ TCLP - Full (w/ organics)
- ☐ Other:

Turn-Around Time*
- ☐ Rush/Same Day†
- ☒ 24 Hours
- ☐ 48 Hours
- ☐ 3 Business Days
- ☐ 4 Business Days
- ☐ Other:

- Field blanks should be submitted with all samples -

* *Some TAT not available for all tests. Must schedule rush organics, multi-metals, and weekend tests in advance.*
† *Same day not available after 2:00 PM*

Sample #	Date Sampled	Sample Description (e.g. Employee Name, SSN, Bldg, Material)	Area Wiped (ft²)	Type ‡ A/B/P/E	Time of Sampling Start	Time of Sampling Stop	Flow Rate (L/min) Start	Flow Rate (L/min) Stop	Total Vol. (L)	SELC USE ONLY #	SELC USE ONLY Cond
1-1	11/09/2017	12x12 Tan/Speckled FT&M - Room 0107								01	G
1-2	11/09/2017	9x9 Brown FT&M - Room 0126								02	G
1-3	11/09/2017	12x12 Off-White/Speckled FT&M - Room 0110								03	G
1-4	11/09/2017	Ceiling Texture - Room 0107								04	G
1-5	11/09/2017	9x9 Blue FT&M under Carpet - Room 0116								05	G
1-6	11/09/2017	Plaster Wall - Room 0116								06	G
1-7	11/09/2017	TSI Elbow - Room 0120								07	G
1-8	11/09/2017	TSI Valve - Room 0113								08	G
1-9	11/09/2017	TSI Vessel Insulation - Room 0113								09	G
1-10	11/09/2017	TSI Elbow - Mechanical Room 0101 SE Corner								10	G
1-11	11/09/2017	TSI Valve - Mechanical Room 0125 NE Corner								11	G
1-12	11/09/2017	TSI Riser - Mechanical Room 0125 NE Corner								12	G
1-13	11/09/2017	Mastic on Fiberglass TSI - Room 125 North								13	G
1-14	11/09/2017	West Mechanical Room Exterior Door Caulk								14	G

‡ A - Area, B - Blank, P - Personal, E - Excursion

Sampled By:
Signature

Relinquished by:

Signature	Date	Time
	11/10/17	1700

Received By:

Signature	Date	Time
Betty Lindsey	11/13/17	12:00pm

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Terrell Technical Services, Inc.**
9582 Madison Blvd, Suite 9
Madison, AL 35758

Telephone: **256-461-9278** Fax: **256-461-9279**

TTSI Project #: **2017-1035**
Job Name: **UNA LaGrange Hall – 2nd Floor**

SELC Project #: **2017-1939**

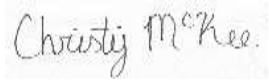
Sample Receipt Date: 11/13/2017
Sample Analysis Date: 11/13/2017 – 11/14/2017
Sample Report Date: 11/14/2017

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
2-1	15	N/A		9 x 9 Brown FT&M – Room 0223				
			1	Floor Tile – Brown, Resinously Bound	Y	5% Chrysotile	None Detected	95%
			2	Mastic – Black, Organically Bound	Y	3% Chrysotile	2% Cellulose Fibers	95%
2-2	16	N/A	1	Ceiling Texture – Room 0223 Ceiling Texture – White/Off-white, Soft	Y	3% Chrysotile	None Detected	97%
2-3	17	N/A	1	Ceiling Texture – Hall 0220 Ceiling Texture – White/Off-white, Soft	Y	3% Chrysotile	None Detected	97%
2-4	18	N/A		TSI Elbow – Room 0229				
			1	Wrap – Off-white, Fibrous	Y	None Detected	85% Cellulose Fibers	15%
			2	Pipe Insulation – Off-white, Fibrous, Soft	Y	7% Chrysotile	15% Mineral Wool	78%
2-5	19	N/A		TSI Valve Fitting – Room 0229				
			1	Wrap & Mastic – Off-white/Silver, Organically Bound **Metal Not Analyzed**	N	None Detected	60% Cellulose Fibers	40%
			2	Wrap – Off-white, Fibrous	Y	None Detected	85% Cellulose Fibers	15%
			3	Mastic – Black, Organically Bound	Y	None Detected	None Detected	100%
			4	Foam Material – Black, Spongy, Brittle	Y	None Detected	None Detected	100%

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager



Quality Review
Christy McKee – Microscopy Analyst

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Fax: (205) 823-9066

LAB CODE: 200873-0

Asbestos Bulk Sample Analysis Report

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Telephone: **256-461-9278** Fax: **256-461-9279**

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Job Name: **UNA LaGrange Hall – 2nd Floor**

SELC Project #: **2017-1939**

Sample Receipt Date: 11/13/2017

Sample Analysis Date: 11/13/2017 – 11/14/2017

Sample Report Date: 11/14/2017

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy

Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials

Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
			5	Pipe Insulation – White, Fibrous, Soft	Y	7% Chrysotile	10% Mineral Wool	83%
2-6	20	N/A		TSI Riser – Room 0229				
			1	Wrap – Off-white/Brown, Fibrous	N	None Detected	85% Cellulose Fibers	15%
			2	Foam Material – Black, Spongy, Brittle	Y	None Detected	None Detected	100%
			3	Mastic – Black, Organically Bound	Y	10% Chrysotile	15% Fiberglass	75%
2-7	21	N/A		12 x 12 Beige FT&M – Room 0221				
			1	Floor Tile – Beige/Gray, Resinously Bound	Y	None Detected	None Detected	100%
			2	Mastic – Black, Organically Bound	Y	5% Chrysotile	None Detected	95%
2-8	22	N/A		12 x 12 Gray FT&M (2 Layers) – Hall 0231				
			1	Floor Tile – Gray, Resinously Bound	Y	None Detected	None Detected	100%
			2	Mastic – Yellow, Organically Bound	Y	None Detected	None Detected	100%
			3	Leveling Compound – White, Resinously Bound	Y	None Detected	None Detected	100%
2-9	23	N/A	1	Exterior Door Caulk – Rear Entry Door Caulk – Gray, Rubbery	Y	None Detected	None Detected	100%

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Christy McKee – Microscopy Analyst

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Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
2-10	24	N/A	1	Exterior Window Caulk – Northwest Windows Caulk – Beige, Rubbery	Y	None Detected	None Detected	100%
2-11	25	N/A	1	Exterior Window Caulk – Northeast Windows Caulk – Beige, Rubbery	Y	None Detected	None Detected	100%

☒ This report is **FINAL** ☐ This report is **PRELIMINARY** – pending final QC

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Christy McKee – Microscopy Analyst

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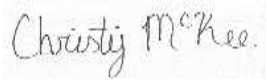
NVLAP LAB CODE: 200873-0

PLM Notes and Descriptions

1. Upper detection limit: 100%. Lower detection limit: <1%.
2. Bulk Samples will be stored for 3 months and will then be disposed of in an approved EPA landfill.
3. Analysis of floor tile or any other resinously bound materials by polarized light microscopy (PLM) using EPA Method 600/R-93/116 dated July 1993 may yield false-negative results because of method limitations in separating closely bound fibers from matrix material and in detecting fibers of small length and/or diameter. When analysis of such materials by the EPA PLM Method yields negative results for the presence of asbestos we recommend utilizing alternative methods of identification such as Gravimetry, XRD or AEM.
4. Samples are not homogenized by SELC prior to analysis. Distinct material layers within a sample are analyzed and reported separately by SELC. When multiple products are submitted by the customer under one sample number, SELC indicates those distinct products as sub-samples. SELC retains all samples numbers but will designate a sample number to those that are not given a sample number by the customer.
5. Percentages given are based on a visual estimated calibration.
6. Safety Environmental Laboratories and Consulting, Inc. is a NVLAP accredited laboratory, Lab Code: 200873-0 (ISO/IEC Standard 17025:2005 Compliant).
7. Results relate only to the samples tested. All tests were performed under the scope of SELC's NVLAP accreditation, unless indicated otherwise.
8. All samples were received in a condition suitable for analysis ("Good"), unless otherwise noted.
9. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
10. Analytical Instrument: Olympus Polarized Light Microscope Series BH-2 Model BHT-002

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager



Quality Review
Christy McKee – Microscopy Analyst

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Pelham, AL 35124 Fax: (205) 823-9066

Environmental, Health, and Safety Solutions

SELC

Chain of Custody Form

Customer: TTSI
Address:
Phone: Fax:
E-mail:

Project Number: 2017-1035
Project Name: UNA
Project Location: LaGrange Hall - 2nd Floor
PO Number:
SELC Proj. #: 17-1939

Sample Type
- ☐ Air
- ☒ Bulk
- ☐ Paint
- ☐ Soil
- ☐ Waste
- ☐ Other:

Asbestos Analysis
- ☐ Asbestos Air - PCM
- ☐ Asbestos Air - TEM
- ☒ PLM (EPA 600/R-93/116)
- ☐ PLM (EPA Point Count)
- ☐ Other:

Metals Analysis
- ☐ Total Conc. - Lead
- ☐ Total Conc. - RCRA 8-Metals
- ☐ TCLP - Lead
- ☐ TCLP - RCRA 8-Metals
- ☐ TCLP - Full (w/ organics)
- ☐ Other:

Turn-Around Time*
- ☐ Rush/Same Day†
- ☒ 24 Hours
- ☐ 48 Hours
- ☐ 3 Business Days
- ☐ 4 Business Days
- ☐ Other:

- Field blanks should be submitted with all samples -

* *Some TAT not available for all tests. Must schedule rush organics, multi-metals, and weekend tests in advance.*
† *Same day not available after 2:00 PM*

Sample #	Date Sampled	Sample Description (e.g. Employee Name, SSN, Bldg. Material)	Area Wiped (ft²)	Type ‡ A/B/P/E	Time of Sampling Start	Time of Sampling Stop	Flow Rate (L/min) Start	Flow Rate (L/min) Stop	Total Vol. (L)	SELC USE ONLY #	SELC USE ONLY Cond
2-1	11/09/2017	9x9 Brown FT&M - Room 0223								15	C
2-2	11/09/2017	Ceiling Texture - Room 0223								16	C
2-3	11/09/2017	Ceiling Texture - Hall 0220								17	C
2-4	11/09/2017	TSI Elbow - Room 0229								18	C
2-5	11/09/2017	TSI Valve Fitting - Room 0229								19	C
2-6	11/09/2017	TSI Riser - Room 0229								20	C
2-7	11/09/2017	12x12 Beige FT&M - Room 0221								21	C
2-8	11/09/2017	12x12 Grey FT&M (2 Layers) - Hall 0231								22	C
2-9	11/09/2017	Exterior Door Caulk - Rear Entry Door								23	C
2-10	11/09/2017	Exterior Window Caulk - Northwest Windows								24	C
2-11	11/09/2017	Exterior Window Caulk - Northeast Windows								25	C

‡ A - Area, B - Blank, P - Personal, E - Excursion

Sampled By:
Signature

Relinquished by:

Signature	Date	Time
Elliott Tenell	11/10/17	1700

Received By:

Signature	Date	Time
Kelly Lindsey	11/13/17	12:00pm

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

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Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Terrell Technical Services, Inc.**
9582 Madison Blvd, Suite 9
Madison, AL 35758

Telephone: **256-461-9278** Fax: **256-461-9279**

TTSI Project #: **2017-1035**
Job Name: **UNA LaGrange Hall – 3rd Floor**

SELC Project #: **2017-1939**

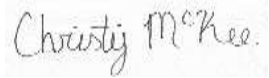
Sample Receipt Date: 11/13/2017
Sample Analysis Date: 11/13/2017 – 11/14/2017
Sample Report Date: 11/14/2017

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
3-1	26	N/A		9 x 9 Brown FT&M – Room 0301				
			1	Floor Tile – Brown, Resinously Bound	Y	5% Chrysotile	None Detected	95%
			2	Mastic – Black, Organically Bound	Y	3% Chrysotile	None Detected	97%
3-2	27	N/A		12 x 12 Beige FT&M – Room 0307				
			1	Floor Tile – Beige, Resinously Bound	Y	None Detected	None Detected	100%
			2	Mastic - Black, Organically Bound	Y	7% Chrysotile	None Detected	93%
3-3	28	N/A	1	Ceiling Texture – Room 0318 White/Off-white, Soft	Y	5% Chrysotile	None Detected	95%
3-4	29	N/A	1	Ceiling Plaster – Hall 0320 White/Off-white, Soft	Y	3% Chrysotile	None Detected	97%
3-5	30	N/A		TSI Riser – Room 0329				
			1	Mastic – Black, Organically Bound	Y	None Detected	3% Cellulose Fibers	97%
			2	Wrap – Black/Off-white, Fibrous	N	None Detected	60% Cellulose Fibers 20% Fiberglass	20%
			3	Foam Material – Black, Spongy, Brittle	Y	None Detected	None Detected	100%

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager



Quality Review
Christy McKee-Microscopy Analyst

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Asbestos Bulk Sample Analysis Report

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Madison, AL 35758

Telephone: **256-461-9278** Fax: **256-461-9279**

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Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy

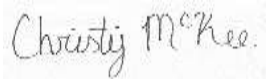
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials

Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
3-6	31	N/A		TSI Valve – Room 0329				
			1	Thermal System Insulation/Wrap – Off-white/Silver, Fibrous **Metal Not Analyzed**	N	None Detected	60% Cellulose Fibers	40%
			2	Mastic – Black, Organically Bound	Y	None Detected	None Detected	100%
			3	Wrap – Off-white, Fibrous	Y	None Detected	80% Cellulose Fibers	20%
			4	Foam Material – Black, Spongy, Brittle	Y	None Detected	None Detected	100%
			5	Pipe Insulation – Off-white, Fibrous, Soft	Y	7% Chrysotile	10% Mineral Wool	83%
3-7	32	N/A		TSI Fitting – Room 0329				
			1	Wrap – Off-white, Fibrous	Y	None Detected	80% Cellulose Fibers	20%
			2	Pipe Insulation – Off-white, Fibrous, Soft	Y	5% Chrysotile	10% Mineral Wool	85%
3-8	33	N/A		TSI Fiberglass Wrap/Mastic – Room 0329				
			1	Wrap & Mastic – Off-white/Silver/Black, Fibrous, Organically Bound **Metal Not Analyzed**	N	None Detected	60% Cellulose Fibers	40%
			2	Mastic – Black, Organically Bound	Y	None Detected	None Detected	100%
			3	Insulation Material – Yellow, Fibrous	Y	None Detected	80% Fiberglass	20%

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager



Quality Review
Christy McKee-Microscopy Analyst

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Asbestos Bulk Sample Analysis Report

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Job Name: **UNA LaGrange Hall – 3rd Floor**

SELC Project #: **2017-1939**

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Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
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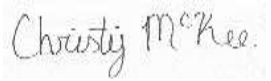
Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
3-9	34	N/A	1	HVAC Vibration Dampener – Room 0329 Dampener – Gray, Fibrous	Y	None Detected	75% Cellulose Fibers	25%

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager



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☒ This report is **FINAL** ☐ This report is **PRELIMINARY** – pending final QC

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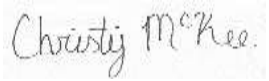
Technical Review
Carol Findlay – Microscopy Manager



Quality Review
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NVLAP LAB CODE: 200873-0

PLM Notes and Descriptions

1. Upper detection limit: 100%. Lower detection limit: <1%.
2. Bulk Samples will be stored for 3 months and will then be disposed of in an approved EPA landfill.
3. Analysis of floor tile or any other resinously bound materials by polarized light microscopy (PLM) using EPA Method 600/R-93/116 dated July 1993 may yield false-negative results because of method limitations in separating closely bound fibers from matrix material and in detecting fibers of small length and/or diameter. When analysis of such materials by the EPA PLM Method yields negative results for the presence of asbestos we recommend utilizing alternative methods of identification such as Gravimetry, XRD or AEM.
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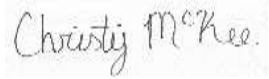
5. Percentages given are based on a visual estimated calibration.
6. Safety Environmental Laboratories and Consulting, Inc. is a NVLAP accredited laboratory, Lab Code: 200873-0 (ISO/IEC Standard 17025:2005 Compliant).
7. Results relate only to the samples tested. All tests were performed under the scope of SELC's NVLAP accreditation, unless indicated otherwise.
8. All samples were received in a condition suitable for analysis ("Good"), unless otherwise noted.
9. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
10. Analytical Instrument: Olympus Polarized Light Microscope Series BH-2 Model BHT-002

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager



Quality Review
Christy McKee-Microscopy Analyst

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Phone: (205) 823-6200
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Environmental, Health, and Safety Solutions

SELC

Chain of Custody Form

Customer: TTSI
Address:
Phone: Fax:
E-mail:

Project Number: 2017-1035
Project Name: UNA
Project Location: LaGrange Hall - 3rd Floor
PO Number:
SELC Proj. #: 17-1939

Sample Type
- ☐ Air
- ☒ Bulk
- ☐ Paint
- ☐ Soil
- ☐ Waste
- ☐ Other:

Asbestos Analysis
- ☐ Asbestos Air - PCM
- ☐ Asbestos Air - TEM
- ☒ PLM (EPA 600/R-93/116)
- ☐ PLM (EPA Point Count)
- ☐ Other:

Metals Analysis
- ☐ Total Conc. - Lead
- ☐ Total Conc. - RCRA 8-Metals
- ☐ TCLP - Lead
- ☐ TCLP - RCRA 8-Metals
- ☐ TCLP - Full (w/ organics)
- ☐ Other:

Turn-Around Time*
- ☐ Rush/Same Day†
- ☒ 24 Hours
- ☐ 48 Hours
- ☐ 3 Business Days
- ☐ 4 Business Days
- ☐ Other:

- Field blanks should be submitted with all samples -

** Some TAT not available for all tests. Must schedule rush organics, multi-metals, and weekend tests in advance.*
† Same day not available after 2:00 PM

Sample #	Date Sampled	Sample Description (e.g. Employee Name, SSN, Bldg, Material)	Area Wiped (ft²)	Type ‡ A/B/P/E	Time of Sampling Start	Time of Sampling Stop	Flow Rate (L/min) Start	Flow Rate (L/min) Stop	Total Vol. (L)	SELC USE ONLY #	SELC USE ONLY Cond
3-1	11/09/2017	9x9 Brown FT&M - Room 0301								~~25~~ 26	C
3-2	11/09/2017	12x12 Beige FT&M - Room 0307								27	C
3-3	11/09/2017	Ceiling Texture - Room 0318								~~28~~	C
3-4	11/09/2017	Ceiling Plaster - Hall 0320								29	C
3-5	11/09/2017	TSI Riser - Room 0329								30	C
3-6	11/09/2017	TSI Valve - Room 0329								31	C
3-7	11/09/2017	TSI Fitting - Room 0329								32	C
3-8	11/09/2017	TSI Fiberglass Wrap/Mastic - Room 0329								33	C
3-9	11/09/2017	HVAC Vibration Dampener - Room 0329								34	C

‡ A - Area, B - Blank, P - Personal, E - Excursion

Sampled By:
Signature

Relinquished by:

Signature	Date	Time
	11/10/17	1700

Received By:

Signature	Date	Time
	11/13/17	12:00 pm

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Terrell Technical Services, Inc.**
9582 Madison Blvd, Suite 9
Madison, AL 35758

Telephone: **256-461-9278** Fax: **256-461-9279**

TTSI Project #: **2017-1035**
Job Name: **UNA LaGrange Hall – 4th Floor**

SELC Project #: **2017-1939**

Sample Receipt Date: 11/13/2017
Sample Analysis Date: 11/13/2017 – 11/14/2017
Sample Report Date: 11/14/2017

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
4-1	35	N/A		9 x 9 Brown FT&M – Room 0405				
			1	Floor Tile – Brown, Resinously Bound	Y	5% Chrysotile	None Detected	95%
			2	Mastic – Black, Organically Bound	Y	3% Chrysotile	None Detected	97%
4-2	36	N/A	1	Ceiling Texture – Room 0410 Ceiling Texture – White/Off-white, Soft	Y	5% Chrysotile	None Detected	95%
4-3	37	N/A	1	Ceiling Texture – Hall 430 Ceiling Texture – White/Off-white, Soft	Y	5% Chrysotile	None Detected	95%
4-4	38	N/A	1	Interior Window Caulk – Room 0423 Glazing – Off-white, Soft	Y	2% Chrysotile	2% Talc	96%
4-5	39	N/A		TSI Riser – Room 0427				
			1	Mastic – Black/Orange, Organically Bound	N	None Detected	3% Cellulose Fibers	97%
			2	Foam Material – Black, Spongy, Brittle	Y	None Detected	None Detected	100%
4-6	40	N/A		TSI Elbow – Room 0427				
			1	Wrap – Gray, Fibrous	Y	None Detected	80% Cellulose Fibers	20%
			2	Pipe Insulation – Off-white, Fibrous, Soft	Y	5% Chrysotile	10% Mineral Wool	85%

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Christy McKee – Microscopy Analyst

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Sample Receipt Date: 11/13/2017
Sample Analysis Date: 11/13/2017 – 11/14/2017
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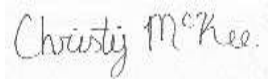
Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
4-7	41	N/A		TSI Valve Fitting – Room 0427				
			1	Wrap – Off-white, Fibrous	Y	None Detected	75% Cellulose Fibers	25%
			2	Pipe Insulation – Off-white, Fibrous, Soft	Y	5% Chrysotile	15% Mineral Wool	80%
4-8	42	N/A		TSI Fitting – Room 0427				
			1	Wrap – Off-white, Fibrous	Y	None Detected	80% Cellulose Fibers	20%
			2	Pipe Insulation – Off-white, Fibrous, Soft	Y	7% Chrysotile	15% Mineral Wool	78%
4-9	43	N/A		Fiberglass TSI Riser Wrap/Mastic – Room 0427				
			1	Wrap & Mastic – Brown/Black/Silver, Fibrous, Organically Bound	N	None Detected	60% Cellulose Fibers	40%
			2	Mastic – Black, Organically Bound	Y	None Detected	None Detected	100%
			3	Insulation Material – Light Yellow, Fibrous	Y	None Detected	85% Fiberglass	15%
4-10	44	N/A	1	HVAC Vibration Dampener – Room 0427 Dampener – Brown, Fibrous	Y	None Detected	70% Cellulose Fibers	30%
4-11	45	N/A	1	Black Window Ledge – Hall 0418 Slate/Phyllite – Gray, Hard	Y	None Detected	None Detected	100%

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager



Quality Review
Christy McKee – Microscopy Analyst

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Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
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NVLAP LAB CODE: 200873-0

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9582 Madison Blvd, Suite 9
Madison, AL 35758

Telephone: **256-461-9278** Fax: **256-461-9279**

TTSI Project #: **2017-1035**
Job Name: **UNA LaGrange Hall – 4th Floor**

SELC Project #: **2017-1939**

Sample Receipt Date: 11/13/2017
Sample Analysis Date: 11/13/2017 – 11/14/2017
Sample Report Date: 11/14/2017

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
4-12	46	N/A	1	Black Window Ledge – Room 0409 Slate/Phyllite – Gray, Hard	Y	None Detected	None Detected	100%

☒ This report is **FINAL** ☐ This report is **PRELIMINARY** – pending final QC

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Christy McKee – Microscopy Analyst

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Pelham, AL 35124

Phone: (205) 823-6200
Fax: (205) 823-9066

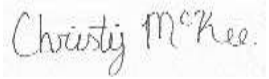
NVLAP LAB CODE: 200873-0

PLM Notes and Descriptions

1. Upper detection limit: 100%. Lower detection limit: <1%.
2. Bulk Samples will be stored for 3 months and will then be disposed of in an approved EPA landfill.
3. Analysis of floor tile or any other resinously bound materials by polarized light microscopy (PLM) using EPA Method 600/R-93/116 dated July 1993 may yield false-negative results because of method limitations in separating closely bound fibers from matrix material and in detecting fibers of small length and/or diameter. When analysis of such materials by the EPA PLM Method yields negative results for the presence of asbestos we recommend utilizing alternative methods of identification such as Gravimetry, XRD or AEM.
4. Samples are not homogenized by SELC prior to analysis. Distinct material layers within a sample are analyzed and reported separately by SELC. When multiple products are submitted by the customer under one sample number, SELC indicates those distinct products as sub-samples. SELC retains all samples numbers but will designate a sample number to those that are not given a sample number by the customer.
5. Percentages given are based on a visual estimated calibration.
6. Safety Environmental Laboratories and Consulting, Inc. is a NVLAP accredited laboratory, Lab Code: 200873-0 (ISO/IEC Standard 17025:2005 Compliant).
7. Results relate only to the samples tested. All tests were performed under the scope of SELC's NVLAP accreditation, unless indicated otherwise.
8. All samples were received in a condition suitable for analysis ("Good"), unless otherwise noted.
9. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
10. Analytical Instrument: Olympus Polarized Light Microscope Series BH-2 Model BHT-002

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager



Quality Review
Christy McKee – Microscopy Analyst

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SELC

Safety Environmental Laboratories and Consulting, Inc.

989 Yeager Pkwy. Phone: (205) 823-6200
Pelham, AL 35124 Fax: (205) 823-9066

Environmental, Health, and Safety Solutions

Chain of Custody Form

Customer: TTSI

Address:

Phone: Fax:

E-mail:

Project Number: 2017-1035

Project Name: UNA

Project Location: LaGrange Hall - 4th Floor

PO Number:

SELC Proj. #: 17-1939

Sample Type

- ☐ Air
- ☒ Bulk
- ☐ Paint
- ☐ Soil
- ☐ Waste
- ☐ Other:

Asbestos Analysis

- ☐ Asbestos Air - PCM
- ☐ Asbestos Air - TEM
- ☒ PLM (EPA 600/R-93/116)
- ☐ PLM (EPA Point Count)
- ☐ Other:

Metals Analysis

- ☐ Total Conc. - Lead
- ☐ Total Conc. - RCRA 8-Metals
- ☐ TCLP - Lead
- ☐ TCLP - RCRA 8-Metals
- ☐ TCLP - Full (w/ organics)
- ☐ Other:

Turn-Around Time*

- ☐ Rush/Same Day†
- ☒ 24 Hours
- ☐ 48 Hours
- ☐ 3 Business Days
- ☐ 4 Business Days
- ☐ Other:

- Field blanks should be submitted with all samples -

** Some TAT not available for all tests. Must schedule rush organics, multi-metals, and weekend tests in advance.*

† Same day not available after 2:00 PM

Sample #	Date Sampled	Sample Description (e.g. Employee Name, SSN, Bldg, Material)	Area Wiped (ft²)	Type ‡ A/B/P/E	Time of Sampling Start	Time of Sampling Stop	Flow Rate (L/min) Start	Flow Rate (L/min) Stop	Total Vol. (L)	SELC USE ONLY #	SELC USE ONLY Cond
4-1	11/09/2017	9x9 Brown FT&M - Room 0405								35	G
4-2	11/09/2017	Ceiling Texture - Room 0410								36	G
4-3	11/09/2017	Ceiling Texture - Hall 430								37	G
4-4	11/09/2017	Interior Window Caulk - Room 0423								38	G
4-5	11/09/2017	TSI Riser - Room 0427								39	G
4-6	11/09/2017	TSI Elbow - Room 0427								40	G
4-7	11/09/2017	TSI Valve Fitting - Room 0427								41	G
4-8	11/09/2017	TSI Fitting - Room 0427								42	G
4-9	11/09/2017	Fiberglass TSI Riser Wrap/Mastic - Room 0427								43	G
4-10	11/09/2017	HVAC Vibration Dampener - Room 0427								44	G
4-11	11/09/2017	Black Window Ledge - Hall 0418								45	G
4-12	11/09/2017	Black Window Ledge - Room 0409								46	G

‡ A - Area, B - Blank, P - Personal, E - Excursion

Sampled By:

Signature

Relinquished by:

Signature	Date	Time
	11/10/17	1700

Received By:

Signature	Date	Time
Betty Lindsey	11/13/17	12:00pm

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Terrell Technical Services, Inc.**
9582 Madison Blvd, Suite 9
Madison, AL 35758

Telephone: **256-461-9278** Fax: **256-461-9279**

TTSI Project #: **2017-1035**
Job Name: **UNA LaGrange Hall – 5th Floor**

SELC Project #: **2017-1939**

Sample Receipt Date: 11/13/2017
Sample Analysis Date: 11/13/2017 – 11/14/2017
Sample Report Date: 11/14/2017

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
5-1	47	N/A		9 x 9 Brown FT&M – Room 0513				
			1	Floor Tile – Brown, Resinously Bound	Y	5% Chrysotile	None Detected	95%
			2	Mastic – Black, Organically Bound	Y	7% Chrysotile	None Detected	93%
5-2	48	N/A	1	Ceiling Texture – Room 0513 Ceiling Texture – White/Off-white, Soft	Y	5% Chrysotile	None Detected	95%
5-3	49	N/A		12 x 12 Beige FT&M – Room 0517				
			1	Floor Tile – White, Resinously Bound	Y	None Detected	None Detected	100%
			2	Mastic – Black, Organically Bound	Y	2% Chrysotile	None Detected	98%
			3	Mastic – Brown, Organically Bound, Gummy	Y	2% Chrysotile	None Detected	98%
5-4	50	N/A	1	Ceiling Plaster – Hall 0520 Ceiling Plaster – White, Soft	Y	3% Chrysotile	None Detected	97%
5-5	51	N/A		TSI Riser – Room 0529				
			1	Wrap – Brown/Off-white, Fibrous	N	None Detected	80% Cellulose Fibers	20%
			2	Foam Material – Black, Spongy, Brittle	Y	None Detected	None Detected	100%

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Christy McKee – Microscopy Analyst

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Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

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Job Name: **UNA LaGrange Hall – 5th Floor**

SELC Project #: **2017-1939**

Sample Receipt Date: 11/13/2017
Sample Analysis Date: 11/13/2017 – 11/14/2017
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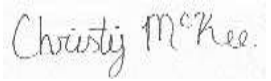
Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
5-6	52	N/A		TSI 12” Valve Fitting – Room 0529				
			1	Wrap – Off-white, Fibrous	Y	None Detected	80% Cellulose Fibers	20%
			2	Pipe Insulation – Off-white, Fibrous, Soft	Y	7% Chrysotile	15% Mineral Wool	78%
5-7	53	N/A		TSI Elbow – Room 0529				
			1	Wrap – Off-white, Fibrous	Y	None Detected	80% Cellulose Fibers	20%
			2	Pipe Insulation – Off-white, Fibrous, Soft	Y	10% Chrysotile	15% Mineral Wool	75%
5-8	54	N/A	1	HVAC Vibration Dampener – Room 0529 Dampener – Gray, Fibrous	Y	None Detected	80% Cellulose Fibers	20%

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager



Quality Review
Christy McKee – Microscopy Analyst

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Job Name: **UNA LaGrange Hall – 5th Floor**

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Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material

☒ This report is **FINAL** ☐ This report is **PRELIMINARY** – pending final QC

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Christy McKee – Microscopy Analyst

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PLM Notes and Descriptions

1. Upper detection limit: 100%. Lower detection limit: <1%.
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5. Percentages given are based on a visual estimated calibration.
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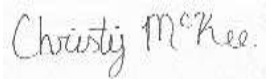
7. Results relate only to the samples tested. All tests were performed under the scope of SELC's NVLAP accreditation, unless indicated otherwise.
8. All samples were received in a condition suitable for analysis ("Good"), unless otherwise noted.
9. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
10. Analytical Instrument: Olympus Polarized Light Microscope Series BH-2 Model BHT-002

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager



Quality Review
Christy McKee – Microscopy Analyst

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Safety Environmental Laboratories and Consulting, Inc.

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Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

Environmental, Health, and Safety Solutions

SELC

Chain of Custody Form

Customer: TTSI

Address:

Phone: Fax:

E-mail:

Project Number: 2017-1035

Project Name: UNA

Project Location: LaGrange Hall - 5th Floor

PO Number:

SELC Proj. #: 17-1939

Sample Type

- ☐ Air
- ☒ Bulk
- ☐ Paint
- ☐ Soil
- ☐ Waste
- ☐ Other:

Asbestos Analysis

- ☐ Asbestos Air - PCM
- ☐ Asbestos Air - TEM
- ☒ PLM (EPA 600/R-93/116)
- ☐ PLM (EPA Point Count)
- ☐ Other:

Metals Analysis

- ☐ Total Conc. - Lead
- ☐ Total Conc. - RCRA 8-Metals
- ☐ TCLP - Lead
- ☐ TCLP - RCRA 8-Metals
- ☐ TCLP - Full (w/ organics)
- ☐ Other:

Turn-Around Time*

- ☐ Rush/Same Day†
- ☒ 24 Hours
- ☐ 48 Hours
- ☐ 3 Business Days
- ☐ 4 Business Days
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† *Same day not available after 2:00 PM*

Sample #	Date Sampled	Sample Description (e.g. Employee Name, SSN, Bldg, Material)	Area Wiped (ft²)	Type ‡ A/B/P/E	Time of Sampling Start	Time of Sampling Stop	Flow Rate (L/min) Start	Flow Rate (L/min) Stop	Total Vol. (L)	SELC USE ONLY #	SELC USE ONLY Cond
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5-2	11/09/2017	Ceiling Texture - Room 0513								48	C
5-3	11/09/2017	12x12 Beige FT&M - Room 0517								49	C
5-4	11/09/2017	Ceiling Plaster - Hall 0520								50	C
5-5	11/09/2017	TSI Riser - Room 0529								51	C
5-6	11/09/2017	TSI 12" Valve Fitting - Room 0529								52	C
5-7	11/09/2017	TSI Elbow - Room 0529								53	C
5-8	11/09/2017	HVAC Vibration Dampener - Room 0529								54	C

‡ A - Area, B - Blank, P - Personal, E - Excursion

Sampled By:

Signature

Relinquished by:

Signature	Date	Time
	11/10/17	1700

Received By:

Signature	Date	Time
	11/13/17	12:00 pm

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

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NVLAP LAB CODE: 200873-0

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9582 Madison Blvd, Suite 9
Madison, AL 35758

Telephone: **256-461-9278** Fax: **256-461-9279**

TTSI Project #: **2017-1035**
Job Name: **UNA LaGrange Hall – Roof**

SELC Project #: **2017-1939**

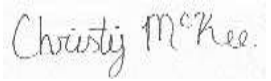
Sample Receipt Date: 11/13/2017
Sample Analysis Date: 11/13/2017 – 11/14/2017
Sample Report Date: 11/14/2017

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
R-1	55	N/A		Roof West Field				
			1	Roofing Shingle – Speckled/Black, Fibrous, Organically Bound, Granular	N	None Detected	20% Synthetic Fibers	80%
			2	Roofing Tar – Black, Organically Bound, Brittle	Y	None Detected	None Detected	100%
			3	Roofing Felt – Black, Fibrous, Organically Bound	Y	None Detected	30% Fiberglass 5% Cellulose Fibers	65%
			4	Roofing Insulation – Brown, Fibrous	Y	None Detected	70% Cellulose Fibers	30%
R-2	56	N/A		Roof Center Field (Patch)				
			1	Roofing Shingle – Speckled/Black, Fibrous, Organically Bound, Granular	N	None Detected	20% Synthetic Fibers	80%
			2	Roofing Shingle – Speckled/Black, Fibrous, Organically Bound, Granular	N	None Detected	30% Synthetic Fibers	70%
			3	Roofing Tar- Black, Organically Bound, Brittle	Y	None Detected	3% Cellulose Fibers	97%
			4	Roofing Felt – Black, Fibrous, Organically Bound	Y	None Detected	30% Fiberglass 5% Cellulose Fibers	65%
			5	Roofing Insulation – Brown, Fibrous	Y	None Detected	70% Cellulose Fibers	30%

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager



Quality Review
Christy McKee – Microscopy Analyst

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Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Terrell Technical Services, Inc.**
9582 Madison Blvd, Suite 9
Madison, AL 35758

Telephone: **256-461-9278** Fax: **256-461-9279**

TTSI Project #: **2017-1035**
Job Name: **UNA LaGrange Hall – Roof**

SELC Project #: **2017-1939**

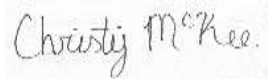
Sample Receipt Date: 11/13/2017
Sample Analysis Date: 11/13/2017 – 11/14/2017
Sample Report Date: 11/14/2017

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
R-3	57	N/A		Roof East Field				
			1	Roofing Shingle – Speckled/Black, Fibrous, Organically Bound, Fibrous	N	None Detected	20% Synthetic Fibers	80%
			2	Roofing Tar – Black, Organically Bound, Brittle	Y	None Detected	None Detected	100%
			3	Roofing Felt – Black, Fibrous, Organically Bound	Y	None Detected	35% Fiberglass	65%
			4	Roofing Insulation – Brown, Fibrous	Y	None Detected	70% Cellulose Fibers	30%
R-4	58	N/A		Roof Flashing - West				
			1	Roof Flashing – Black, Organically Bound	Y	10% Chrysotile	None Detected	90%
			2	Roofing Shingle – Speckled/Black, Fibrous, Organically Bound, Granular	N	None Detected	10% Synthetic Fibers	90%
R-5	59	N/A		Roof Flashing - East				
			1	Roof Flashing – Black, Organically Bound	Y	10% Chrysotile	None Detected	90%
			2	Roofing Shingle – Speckled/Black, Fibrous, Organically Bound, Granular	N	None Detected	20% Synthetic Fibers	80%

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager



Quality Review
Christy McKee – Microscopy Analyst

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Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Terrell Technical Services, Inc.**
9582 Madison Blvd, Suite 9
Madison, AL 35758

Telephone: **256-461-9278** Fax: **256-461-9279**

TTSI Project #: **2017-1035**
Job Name: **UNA LaGrange Hall – Roof**

SELC Project #: **2017-1939**

Sample Receipt Date: 11/13/2017
Sample Analysis Date: 11/13/2017 – 11/14/2017
Sample Report Date: 11/14/2017

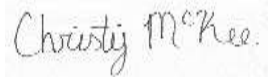
Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
R-6	60	N/A	1	Mastic – Roof Hatch Penetration Roofing Mastic – Black/Gray, Organically Bound, Brittle	Y	None Detected	None Detected	100%

☒ This report is **FINAL** ☐ This report is **PRELIMINARY** – pending final QC

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager



Quality Review
Christy McKee – Microscopy Analyst

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Pelham, AL 35124

Phone: (205) 823-6200
Fax: (205) 823-9066

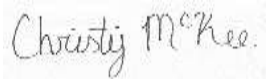
NVLAP LAB CODE: 200873-0

PLM Notes and Descriptions

1. Upper detection limit: 100%. Lower detection limit: <1%.
2. Bulk Samples will be stored for 3 months and will then be disposed of in an approved EPA landfill.
3. Analysis of floor tile or any other resinously bound materials by polarized light microscopy (PLM) using EPA Method 600/R-93/116 dated July 1993 may yield false-negative results because of method limitations in separating closely bound fibers from matrix material and in detecting fibers of small length and/or diameter. When analysis of such materials by the EPA PLM Method yields negative results for the presence of asbestos we recommend utilizing alternative methods of identification such as Gravimetry, XRD or AEM.
4. Samples are not homogenized by SELC prior to analysis. Distinct material layers within a sample are analyzed and reported separately by SELC. When multiple products are submitted by the customer under one sample number, SELC indicates those distinct products as sub-samples. SELC retains all samples numbers but will designate a sample number to those that are not given a sample number by the customer.
5. Percentages given are based on a visual estimated calibration.
6. Safety Environmental Laboratories and Consulting, Inc. is a NVLAP accredited laboratory, Lab Code: 200873-0 (ISO/IEC Standard 17025:2005 Compliant).
7. Results relate only to the samples tested. All tests were performed under the scope of SELC's NVLAP accreditation, unless indicated otherwise.
8. All samples were received in a condition suitable for analysis ("Good"), unless otherwise noted.
9. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
10. Analytical Instrument: Olympus Polarized Light Microscope Series BH-2 Model BHT-002

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager



Quality Review
Christy McKee – Microscopy Analyst

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Safety Environmental Laboratories and Consulting, Inc.

989 Yeager Pkwy. Phone: (205) 823-6200
Pelham, AL 35124 Fax: (205) 823-9066

Environmental, Health, and Safety Solutions

SELC

Chain of Custody Form

Customer: TTSI

Address:

Phone: Fax:

E-mail:

Project Number: 2017-1035

Project Name: UNA

Project Location: LaGrange Hall - Roof

PO Number:

SELC Proj. #: 17-1939

Sample Type
- ☐ Air
- ☒ Bulk
- ☐ Paint
- ☐ Soil
- ☐ Waste
- ☐ Other:

Asbestos Analysis
- ☐ Asbestos Air - PCM
- ☐ Asbestos Air - TEM
- ☒ PLM (EPA 600/R-93/116)
- ☐ PLM (EPA Point Count)
- ☐ Other:

Metals Analysis
- ☐ Total Conc. - Lead
- ☐ Total Conc. - RCRA 8-Metals
- ☐ TCLP - Lead
- ☐ TCLP - RCRA 8-Metals
- ☐ TCLP - Full (w/ organics)
- ☐ Other:

Turn-Around Time*
- ☐ Rush/Same Day†
- ☒ 24 Hours
- ☐ 48 Hours
- ☐ 3 Business Days
- ☐ 4 Business Days
- ☐ Other:

- Field blanks should be submitted with all samples -

** Some TAT not available for all tests. Must schedule rush organics, multi-metals, and weekend tests in advance.*

† Same day not available after 2:00 PM

Sample #	Date Sampled	Sample Description (e.g. Employee Name, SSN, Bldg, Material)	Area Wiped (ft²)	Type ‡ A/B/P/E	Time of Sampling Start	Time of Sampling Stop	Flow Rate (L/min) Start	Flow Rate (L/min) Stop	Total Vol. (L)	SELC USE ONLY #	SELC USE ONLY Cond
R-1	11/09/2017	Roof West Field								55	G
R-2	11/09/2017	Roof Center Field (Patch)								58	G
R-3	11/09/2017	Roof East Field								59	G
R-4	11/09/2017	Roof Flashing - West								58	G
R-5	11/09/2017	Roof Flashing - East								59	G
R-6	11/09/2017	Mastic - Roof Hatch Penetration								60	G

‡ A - Area, B - Blank, P - Personal, E - Excursion

Sampled By:

Signature

Relinquished by:

Signature	Date	Time
	11/10/17	1700

Received By:

Signature	Date	Time
Betty Lindsey	11/13/17	12:00 pm

APPENDIX E

CREDENTIALS

THE UNIVERSITY OF ALABAMA®

UA SafeState

has examined the documentation of asbestos training and qualifications of the person named below and confers this

Certificate of Accreditation

For the Asbestos Contractor Discipline

INSPECTOR/MANAGEMENT PLANNER

Terry L Matson

Alabama Accreditation Number

APL0217544526

Certificate Expiration Date

February 3, 2018

This certificate has been issued pursuant to the authority granted to The University of Alabama SafeState Program by the Alabama Asbestos Contractor Accreditation Act, Alabama Act No. 89-517, May, 1989 and Alabama Act No. 97-626, May, 1997.

Executive Director

Associate Director for Environmental Programs

American Council for Accredited Certification

hereby certifies that

Terry L. Matson

has met all the specific standards and qualifications of the re-certification process, including continued professional development, and is hereby re-certified as a

CIE

Council-certified Indoor Environmentalist

This certificate expires on March 31, 2018.

Charles F. Wiles, Executive Director

1203013

Certificate Number

This certificate remains the property of the American Council for Accredited Certification.

Certificate of Accreditation

this certifies that

Elliott H. Terrell

118 Roma Drive, Madison, AL 35758

has completed the required training for Asbestos Accreditation under TSCA Title II
by attending and satisfactorily passing an examination
covering the contents of a continuing education course entitled

Asbestos Hazard Emergency Response Act

Inspection and Assessment of Asbestos Containing Materials

Annual Refresher Training

April 19, 2017

EXAM: April 19, 2017

Pelham, AL

IR 1961

Certificate Number

April 19, 2018

Expiration Date

Margaret V. Doyle

Course Director/Instructor

ETC

P. O. Box 381476
Birmingham, Alabama 35238
1-205-991-3820

Committed to Quality Environmental Training
Established 1989

© GOES 3037

UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899

September 8, 2016

Carol Findlay
Safety Environmental Labs & Consulting
989 Yeager Parkway
P.O. Box 1848
Pelham, AL 35124

NVLAP Lab Code: 200873-0

Dear Ms. Findlay,

Thank you for continuing your accreditation for Asbestos Fiber Analysis under the National Voluntary Laboratory Accreditation Program (NVLAP). This accreditation is effective until September 30, 2017, provided that your laboratory continues to comply with the accreditation requirements contained in the NVLAP Procedures.

Your updated accreditation documents are enclosed. You may reproduce these documents in their entirety and use the NVLAP symbol and/or term to reference your accredited status in accordance with the requirements published in NIST Handbook 150, 1.8. Accreditation does not relieve your laboratory from observing and complying with any applicable existing laws and/or regulations.

We are pleased to have you participate in NVLAP and look forward to your continued association with this program. If you have any questions concerning your NVLAP accreditation, please direct them to Hazel Richmond, Program Manager, Laboratory Accreditation Program, National Institute of Standards and Technology, 100 Bureau Dr. Stop 2140, Gaithersburg, MD 20899-2140; (301) 975-3024.

Sincerely,

Dana S. Leaman, Chief
National Voluntary Laboratory Accreditation Program

NVLAP® National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Safety Environmental Laboratories & Consulting Inc.
989 Yeager Parkway
P.O. Box 1848
Pelham, AL 35124
Ms. Carol Findlay
Phone: 205-823-6200 Fax: 205-823-9066
Email: carol.findlay@selcinc.com
http://selcinc.com

ASBESTOS FIBER ANALYSIS — NVLAP LAB CODE 200873-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200873-0

Safety Environmental Laboratories & Consulting Inc.

Pelham, AL

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2016-10-01 through 2017-09-30

Effective Dates

DEPARTMENT OF COMMERCE • UNITED STATES OF AMERICA

For the National Voluntary Laboratory Accreditation Program

August 31, 2015

Laboratory ID: 100766

Shannon Sutton
Safety Environmental Laboratories and Consulting, Inc.
989 Yeager Parkway
Pelham, AL 35124

Dear Mr. Sutton:

Congratulations! The AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC's Analytical Accreditation Board (AAB) has approved Safety Environmental Laboratories and Consulting, Inc. as an accredited Industrial Hygiene laboratory.

Accreditation documentation includes the IHLAP accreditation certificate, scope of accreditation document and a copy of the current AIHA-LAP, LLC license agreement (if your completed agreement is not on file at AIHA-LAP, LLC). The accreditation symbol has been designed for use by all AIHA-LAP, LLC accredited laboratories. If your laboratory chooses to use the symbol in its advertising the laboratory's accreditation, you must complete and return the AIHA-LAP, LLC license agreement to a Laboratory Accreditation Specialist. Once submitted, an electronic copy of the accreditation symbol will be sent to you. Please inform us if your laboratory does not wish to use the symbol in advertising.

Laboratory accreditation shall be maintained by continued compliance with IHLAP requirements *(see Policy Modules 2B and 6),* which includes proficient participation in AIHA-LAP, LLC approved proficiency testing, demonstration of competency, or round robin program as indicated on the AIHA-LAP "Approved PT and Round Robin" webpage, its associated Scope/PT table, and as required in Policy Module 6, for all Fields of Testing (FoTs) for which the laboratory is accredited. An accredited laboratory that wishes to expand into a new FoT must submit an updated accreditation application to AIHA-LAP, LLC for review by the AAB.

Any changes in ownership, laboratory location, personnel, FoTs/Methods, or significant procedural changes shall be reported to AIHA-LAP, LLC in writing within twenty (20) business days of the change.

The accreditation certificate is the property of AIHA-LAP, LLC and must be returned to us should your laboratory withdraw or be removed from the IHLAP.

Again, congratulations. If you have any questions, please contact Lauren Schnack, Laboratory Accreditation Specialist, at (703) 846-0716.

Sincerely,

Cheryl O. Morton

Cheryl O. Morton
Managing Director
AIHA Laboratory Accreditation Programs, LLC

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

Safety Environmental Laboratories and Consulting, Inc.

989 Yeager Parkway, Pelham, AL 35124

Laboratory ID: 100766

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

✓	**INDUSTRIAL HYGIENE**	Accreditation Expires: 02/01/2018
☐	**ENVIRONMENTAL LEAD**	Accreditation Expires:
☐	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires:
☐	**FOOD**	Accreditation Expires:
☐	**UNIQUE SCOPES**	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Gerald R Schultz

Gerald Schultz, CIH
Chairperson, Analytical Accreditation Board

Cheryl O. Morton

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 14: 03/26/2014

Date Issued: 08/31/2015

AIHA Laboratory Accreditation Programs, LLC
SCOPE OF ACCREDITATION

Safety Environmental Laboratories and Consulting, Inc.
989 Yeager Parkway, Pelham, AL 35124

Laboratory ID: **100766**
Issue Date: 08/31/2015

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: 04/01/1992

IHLAP Scope Category	Field of Testing (FoT) (FoTs cover all relevant IH matrices)	Technology sub-type/ Detector	Published Reference Method/Title of In-house Method	Method Description or Analyte *(for internal methods only)*
Spectrometry Core	Inductively-Coupled Plasma	ICP/AES	NIOSH 7300	
	UV/VIS (Colorimetric)		NIOSH 7600	
Asbestos/Fiber Microscopy Core	Phase Contrast Microscopy (PCM)		NIOSH 7400	

A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org