

**ASBESTOS-CONTAINING MATERIAL
BUILDING INSPECTION REPORT**

for

Michigan State University Environmental Health and Safety
4000 Collins Road, Room B20
Lansing, Michigan 48910

at

Michigan State University
Eustace-Cole Hall
468 East Circle Drive
East Lansing, Michigan 48824

Inspection conducted by

Fibertec Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, Michigan 48842

Project dates: July 14-17, 2017

Final Report date: August 11, 2017

Project #40413-1

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ASBESTOS-CONTAINING MATERIALS BUILDING INSPECTION REPORT

at

Michigan State University
Eustace-Cole Hall
468 East Circle Drive
East Lansing, Michigan 48824
Project #40413-1

INTRODUCTION

Fibertec Industrial Hygiene Services, Inc. (Fibertec IHS) was retained by Michigan State University Environmental Health and Safety (MSU EHS) to perform an inspection for asbestos-containing materials at Eustace-Cole Hall, 468 East Circle Drive, East Lansing, Michigan. The project was discussed with Mr. Dan Lyons prior to beginning the fieldwork.

The inspection included the collection of an appropriate number of bulk asbestos samples pursuant to the inspection requirements of the Michigan Occupational Safety and Health Administration (MIOSHA) General Industry Standard for Asbestos, Part 305, the Environmental Protection Agency (EPA) Supplemental Sampling Bulletin dated September 30, 1994 and current industry standards. This inspection was designed to identify asbestos-containing materials (ACM) within the building.

CERTIFICATION

The inspection was conducted and the samples collected by Ms. Kristin Peterson, a State of Michigan Accredited Asbestos Building Inspector. A copy of her asbestos inspector accreditation appears in Appendix A.

All bulk asbestos samples were submitted to Fibertec IHS for asbestos analysis by Polarized Light Microscopy (PLM) with dispersion staining. The bulk asbestos samples were analyzed using EPA Method EPA 600/R-93/116. The Fibertec IHS PLM laboratory maintains current National Voluntary Laboratory Accreditation Program (NVLAP) accreditation (Lab Code 101510-0). A copy of the Fibertec IHS NVLAP certificate of accreditation can be found in Appendix B.

GENERAL INSPECTION PROCEDURES

In an effort to identify ACM, the following inspection procedure was followed: A visual inspection within the building interior and exterior was combined with the collection of an appropriate number and distribution of bulk asbestos samples.

Determination of suspect ACM was based on visual examination and bulk sample analysis. Specifically, materials similar in color and texture were classified into homogenous areas (*e.g.*, white drywall).

Destructive testing (*i.e.*, demolition) was not conducted as part of this building inspection. Some ACM hidden from view (*e.g.*, pipe insulation in unknown pipe chases, vermiculite in cinderblock wall cavities, underground utility pipe insulation) may be present, and may not have been accounted for as part of this inspection. No access was provided to Rooms 103 and B48.

RESULTS OF VISUAL INSPECTION

Based on the inspection, 28 suspect asbestos-containing materials were identified at Eustace-Cole Hall, 468 East Circle Drive, East Lansing, Michigan. Some suspect asbestos-containing materials were sampled a number of times in different locations, drywall being an example.

When the results of analysis of all bulk asbestos samples from a homogenous area indicate no asbestos present (less than or equal to one percent), the homogenous area is considered to be a non-asbestos containing material. When the results of analysis indicate asbestos present (in a quantity greater than one percent) in just one sample of those collected from a single homogenous area, the material in the entire homogenous area must be considered asbestos-containing. Occasionally, a material could not be sampled without doing irreparable damage to the material (*e.g.*

roof shingles or ceramic tile damaged by sampling the bedding compound). In these cases, no samples were collected and the material was assumed to contain asbestos.

The information gathered from the inspection is included in Appendices C (Bulk Sample Log), D (Bulk Sample Analytical Report), E (Room by Room Asbestos Building Inspection Forms), F (Digital Photograph Log) and G (Sample Location Maps).

SUMMARY OF ASBESTOS-CONTAINING MATERIALS

The following material was sampled, tested and found to contain more than 1% asbestos and is considered ACM at Eustace-Cole Hall, 468 East Circle Drive, East Lansing, Michigan:

HA 23 Exterior black waterproofing

The following materials were not sampled and were assumed to contain asbestos at Eustace-Cole Hall, 468 East Circle Drive, East Lansing, Michigan:

HA 06 Ceramic floor tile bedding compound and grout
HA 07 Ceramic wall tile bedding compound and grout
HA 18 Gluepods associated with 12" x 12" glued-on ceiling tile
HA 27 Gray roof shingles and felts (tar paper)

The following homogenous materials were sampled, tested and found not to contain asbestos at Eustace-Cole Hall, 468 East Circle Drive, East Lansing, Michigan:

HA 01 Green linoleum with marble pattern and associated mastic
HA 02 4" black cove molding and associated mastic
HA 03 White textured wall plaster
HA 04 White smooth ceiling plaster
HA 05 Green square pattern linoleum stair tread and associated mastic
HA 08 Interior white caulk
HA 09 White rough textured wall plaster
HA 10 Drywall
HA 11 Drywall joint compound
HA 12 Fiberboard wall panels and associated mastic
HA 13 Black mastic on floor
HA 14 Black linoleum and associated mastic
HA 15 Yellow carpet mastic
HA 16 4" maroon cove molding and associated mastic
HA 17 White 12" x 12" glued-on ceiling tile with uniform holes
HA 19 Green linoleum with texture and associated mastic
HA 20 Gray sink undercoating
HA 21 Interior light brown window sill caulk
HA 22 Interior red brick caulk
HA 24 Exterior brown building caulk
HA 25 Exterior gray caulk on steps
HA 26 Exterior white window caulk
HA 28 Exterior white door caulk

The location and quantity of observed items are described in the Room by Room Asbestos Building Inspection Forms (see Appendix E).

CONCLUSIONS

Based on the findings of the inspection and the results of the sample analysis, the following conclusions were drawn:

Undamaged, non-friable (cannot be crumbled, pulverized or reduced to powder by hand pressure when dry) known and assumed asbestos-containing materials ACM were discovered during the course of this inspection. During any

future maintenance activity, renovations or demolition, any ACM likely to become friable must be removed by trained accredited, protected individuals prior to their disturbance by future maintenance, renovation or demolition pursuant to the requirements of MIOSHA Asbestos in Construction Industry Standard, Part 602 and the EPA Asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP) in the case of demolition.

This inspection was conducted pursuant to the requirement of the Michigan General Industry Standard for Asbestos, the EPA Sampling Bulletin and current industry standards. This inspection does not satisfy the pre-demolition inspection requirements of the Asbestos NESHAP.

RECOMMENDATIONS

Based on the information collected during this inspection, the following recommendations are offered. These recommendations are based on the current status of the building and may have to be adjusted if change of ownership, emergency, or other factors substantially alter the condition, use or planned future use of the building.

1. Prior to or during any future renovation, should any newly discovered presumed asbestos-containing materials be observed, they must be assumed to pose a hazard or be tested. Test any assumed ACM prior to renovation.
2. Notify all personnel who may encounter ACM during the routine execution of their assigned work of the presence of known and assumed ACM. This notification must be given to any outside contractors (*e.g.*, contract custodial staff, renovation contractor) who work within or atop the building and may disturb the known or assumed asbestos-containing material(s). Depending on the specific activity being performed, maintenance or repair personnel may need to utilize personal protective equipment or other engineering controls and comply with the provisions of various regulations. Ensure staff who encounter these materials have appropriate training.
3. Provide two hour asbestos hazard awareness training to all custodial and maintenance personnel who may encounter ACMs during the routine course of their duties. Ensure they are trained to identify all known and assumed ACMs described in this inspection report. Ensure training is provided initially and that annual refresher training is provided.
4. Ensure all contractor personnel who may contact a known or assumed ACM have had asbestos hazard awareness training within the past 12 months and can identify all ACM described in this inspection report.
5. Document all asbestos removal conducted in the building and adjust material quantities in the report as abatement occurs.
6. Label ACM in routine maintenance areas.



Kristin Peterson
Michigan Accredited Asbestos Inspector
Card #A25037



David T. Woods
Industrial Hygiene Manager

Phillip A. Peterson

Phillip A. Peterson
Vice President

Appendix A
Asbestos Inspector Credentials



Asbestos Inspector

Kristin L. Peterson
c/o Fibertec Industrial Hygiene
1914 Holloway Drive
Holt, MI 48842



Accreditation Number **A25037** , Expiration Date **03/14/2018**

DOB: 02/27/1974

This individual has satisfactorily met or exceeded the requirements of Michigan Public Act 440 of 1988, as amended, to be accredited as an Asbestos Inspector

Accreditation card is not valid if unsigned.

126277

Your accreditation card is valid for a period of one year, as indicated by the expiration date on the card. Your card must be present on any project site where you are conducting asbestos-related work. If a replacement card is needed, the replacement fee will be \$25.00.

All questions regarding your accreditation should be directed to 517-284-7898.

Cardholder's Signature

Not valid unless signed.

Please visit our website at: www.michigan.gov/asbestos

25037-126277



Information contained in the bar code is limited to ID# and control#

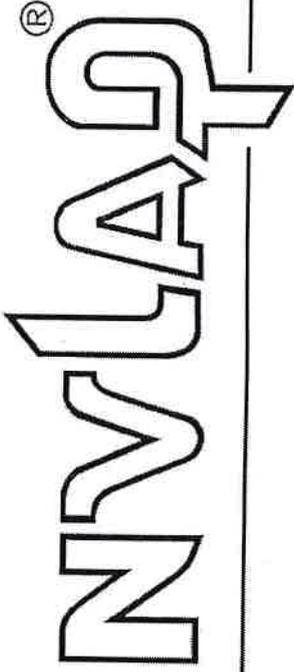
If found please return to:
MIOSHA - Asbestos Program
530 West Allegan Street
P.O. Box 30671
Lansing, MI 48933

MIOSHA-CSH-289 (04/16)
Authority: Michigan Public Act 440 of 1988, as amended

66572

Appendix B
Fibertec IHS NVLAP Certification

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101510-0

Fibertec Industrial Hygiene Services, Inc.
Holt, MI

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 Communiqué dated January 2009).*

2017-01-01 through 2017-12-31

Effective Dates

A handwritten signature in black ink, which appears to read "John S. Lambert".

For the National Voluntary Laboratory Accreditation Program

Appendix C
Bulk Sample Log

Bulk Sample Log Explanation Page

HA – Homogenous Area is a material like in color and texture. (*e.g.*, tan, fluffy, spray-applied structural fireproofing). Homogenous areas are given a unique number (*e.g.* HA #1) which represents a single suspect asbestos-containing material.

Total Footage – The quantity of asbestos-containing material estimated to be present in the structure(s). Quantities are reported in square feet (s.f.), linear feet (l.f.), or count (ct.) – the actual number counted.

Material Type – Materials were classified as one of three types: 1) Surfacing Material (SM) represents material spray or trowel applied to a surface (*e.g.*, plaster or structural fireproofing), 2) Thermal System Insulation (TSI) keeps heat in a system or prevents condensation (*e.g.*, hot water tank or pipe insulation), or 3) Miscellaneous Material (MM) represents material not in the previous two categories. Examples include drywall, floor tile, ceiling tile and mastic.

Material Condition – Material condition is classified into one of three categories: 1) Undamaged material (U) has no damage, 2) Damaged material (D) has >0-10% damage or less than 25% damage locally, or 3) Significantly damaged material (SD) has more than 10% damage overall or >25% damage locally.

F/NF – Friable (F) material can be crumbled or pulverized by hand pressure when dry. Non-friable (NF) material cannot be crumbled or pulverized by hand pressure when dry.

Material ACM (Y/N) – Those materials found to contain more than 1% asbestos are considered asbestos containing material or ACM. ACM are indicated by a Yes or Y in this column. ACM that are assumed to contain asbestos are indicated by assumed in this column. Those materials containing 1% or less than 1% asbestos are not considered ACM and are indicated by a No or N in this column.

Asbestos Detected – If asbestos was detected during the analysis of any sample from a given homogeneous area this column is indicated with a Yes or Y, if no asbestos was detected this column is indicated by No or N.

Sample # - Each sample is indicated by a unique number. The sample number is indicated by a number for the homogeneous area or HA followed by the number of the sample within the HA.

Sample Location – The location of each collected sample is indicated in this column.

N/A – Not analyzed

ASBESTOS BULK SAMPLE LOG

COC# 158176-158179, 163551-163553

Fibertec IHS Project #: 40413-1

DATE: 7/14/17 BUILDING: MSU, Eustace-Cole Hall INSPECTOR: Kristin Peterson

HA #	TOTAL FOOTAGE	MATERIAL TYPE	MATERIAL CONDITION	F/NF	MATERIAL ACM (Y/N)	ASBESTOS DETECTED (Y/N)	SAMPLE #	SAMPLE LOCATION
1	559 s.f.	MM	U	NF	No	No	1-1	B35, west corner.
						No	1-2	B35, near west wall.
HA DESCRIPTION: Green 2' x 2' linoleum with marble pattern and associated mastic					NOTES: Mastic is also non ACM			
2	121 s.f.	MM	U	NF	No	No	2-1	Basement Hallway, near entrance to B48.
						No	2-2	Basement Hallway, near stairs of SW1.
HA DESCRIPTION: 4" black cove molding and associated mastic					NOTES: Mastic is also non ACM			
3	16,732 s.f.	SM	U	NF	No	No	3-1	SW2 stairs, Basement Level, on stairs.
						No	3-2	Hallway, near center in Basement.
						No	3-3	Closet 207A, south wall.
						No	3-4	Elevator Lobby, 2nd Floor, behind refrigerator.
						No	3-5	B5A, near northwest corner.
						No	3-6	B35, near south wall.
						No	3-7	Hallway, near B5.
HA DESCRIPTION: White textured wall plaster					NOTES:			
4	6,170 s.f.	SM	U	NF	No	No	4-1	B5A, ceiling near west wall.
						No	4-2	B35, near center of ceiling.
						No	4-3	Basement, HW1 near Custodial Room.
						No	4-4	Women's Restroom, near north wall.
						No	4-5	SW2, 1st Floor, on stairs.
						No	4-6	207A, center of ceiling.
						No	4-7	2nd Floor Hallway, near Attic hatch.
HA DESCRIPTION: White smooth ceiling plaster					NOTES:			
5	622 s.f.	MM	U	NF	No	No	5-1	SW2 stairs, 2nd stair from bottom, Basement.
						No	5-2	SW1, bottom stair in Basement.
HA DESCRIPTION: Green square pattern stair tread and associated mastic					NOTES: Mastic is also non ACM			
6	549 s.f.	MM	U	NF	Assumed	Assumed		No sample collected.
HA DESCRIPTION: Ceramic floor tile bedding compound and grout					NOTES:			

ASBESTOS BULK SAMPLE LOG

COC# 158176-158179, 163551-163553

Fibertec IHS Project #: 40413-1

DATE: 7/14/17 BUILDING: MSU, Eustace-Cole Hall INSPECTOR: Kristin Peterson

HA #	TOTAL FOOTAGE	MATERIAL TYPE	MATERIAL CONDITION	F/NF	MATERIAL ACM (Y/N)	ASBESTOS DETECTED (Y/N)	SAMPLE #	SAMPLE LOCATION
7	608 s.f.	MM	U	NF	Assumed	Assumed		No sample collected.
HA DESCRIPTION: Ceramic wall tile bedding compound and grout					NOTES:			
8	15 s.f.	MM	U	NF	No	No	8-1	2nd Floor, SW2 stairs, north window.
						No	8-2	1st Floor, SW2, Elevator Lobby window.
HA DESCRIPTION: Interior white window caulk					NOTES:			
9	325 s.f.	SM	U	NF	No	No	9-1	South wall, Boiler Room, under window.
						No	9-2	East wall, Boiler Room, 2' from electrical panels.
						No	9-3	10' from southwest corner of Boiler Room.
HA DESCRIPTION: White rough texture plaster					NOTES:			
10	1,836 s.f.	MM	U	NF	No	No	10-1	Boiler Room, north wall, at door.
						No	10-2	Elevator Lobby, Basement, near west wall.
						No	10-3	Basement Hallway, near B5, above ceiling.
HA DESCRIPTION: Drywall					NOTES:			
						No	10-4	B5, near exterior wall.
						No	10-5	Boiler Room, at door.
11	848 s.f.	MM	U	NF	No	No	11-1	Outer corner north wall, near entry Boiler Room.
						N/A	11-2	Women's Restroom, ceiling near south wall.
						No	11-3	Boiler Room, near door.
HA DESCRIPTION: Drywall joint compound					NOTES: Sample 11-2 didn't have enough sample volume for analysis.			
						No	11-4	Ceiling in B5, near exterior wall.
						No	11-5	Boiler Room at door.
12	88 s.f.	MM	U	F	No	No	12-1	Northwest corner of Boiler Room near entry.
						No	12-2	Near center of west wall, Boiler Room.
HA DESCRIPTION: Fiberboard wall panels and associated mastic					NOTES: Mastic is also non-ACM.			

ASBESTOS BULK SAMPLE LOG

COC# 158176-158179, 163551-163553

Fibertec IHS Project #: 40413-1

DATE: 7/14/17 BUILDING: MSU, Eustace-Cole Hall INSPECTOR: Kristin Peterson

HA #	TOTAL FOOTAGE	MATERIAL TYPE	MATERIAL CONDITION	F/NF	MATERIAL ACM (Y/N)	ASBESTOS DETECTED (Y/N)	SAMPLE #	SAMPLE LOCATION
13	168 s.f.	MM	U	NF	No	No	13-1	2' from entry to Boiler Room.
						No	13-2	Boiler Room, near center.
						No	13-3	2' from window in Boiler Room.
HA DESCRIPTION: Black mastic on floor					NOTES:			
14	35 s.f.	MM	U	NF	No	No	14-1	Elevator, near northeast corner.
						No	14-2	Elevator, near northeast corner.
HA DESCRIPTION: Black linoleum and associated mastic					NOTES: Mastic is also non ACM			
15	4,810 s.f.	MM	U	NF	No	No	15-1	Room 207, northwest corner.
						No	15-2	1st Floor Conference Room, northwest corner.
HA DESCRIPTION: Yellow carpet mastic					NOTES:			
16	193 s.f.	MM	U	NF	No	No	16-1	Basement, SW2 stairs, at entry to Elevator Lobby.
						No	16-2	2nd Floor, Elevator Lobby, under refrigerator.
HA DESCRIPTION: 4" maroon cove molding and associated mastic					NOTES: Mastic is also non ACM			
17	15 s.f.	MM	U	F	No	No	17-1	B5A, at entrance.
						No	17-2	B5A, at entrance.
HA DESCRIPTION: White 12" x 12" glued-on ceiling tile with uniform holes					NOTES:			
18	15 s.f.	MM	U	NF	Assumed	Assumed		No sample collected.
HA DESCRIPTION: Gluepods associated with 12" x 12" ceiling tile					NOTES:			

ASBESTOS BULK SAMPLE LOG

COC# 158176-158179, 163551-163553

Fibertec IHS Project #: 40413-1

DATE: 7/14/17 BUILDING: MSU, Eustace-Cole Hall INSPECTOR: Kristin Peterson

HA #	TOTAL FOOTAGE	MATERIAL TYPE	MATERIAL CONDITION	F/NF	MATERIAL ACM (Y/N)	ASBESTOS DETECTED (Y/N)	SAMPLE #	SAMPLE LOCATION
19	382 s.f.	MM	U	NF	No	No	19-1	2nd Floor, Elevator Lobby, under refrigerator.
						No	19-2	1st Floor Main Hallway, near entrance to Room 130.
HA DESCRIPTION: Green linoleum with texture and associated mastic					NOTES: Mastic is also non ACM			
20	1 ct.	MM	U	NF	No	No	20-1	2nd Floor Hallway, Break Area sink.
						No	20-2	2nd Floor Hallway, Break Area sink.
HA DESCRIPTION: Gray sink undercoating					NOTES:			
21	2 s.f.	MM	U	NF	No	No	21-1	1st Floor, Elevator Lobby, on window.
						No	21-2	2nd Floor, SW2 stairwell, on window.
HA DESCRIPTION: Interior light brown window sill caulk					NOTES:			
22	5 s.f.	MM	U	NF	No	No	22-1	Elevator Lobby, 1st Floor, near elevator.
						No	22-2	Elevator Lobby, 1st Floor, northwest corner.
HA DESCRIPTION: Interior red brick caulk					NOTES:			
23	3 s.f.	MM	U	NF	Yes	Yes	23-1	Northwest corner of the building.
						Yes	23-2	Northwest corner of the building.
HA DESCRIPTION: Exterior black waterproofing					NOTES:			
24	20 s.f.	MM	U	NF	No	No	24-1	Near main entry, west side of building.
						No	24-2	East side of building.
HA DESCRIPTION: Exterior brown building caulk					NOTES:			

ASBESTOS BULK SAMPLE LOG

COC# 158176-158179, 163551-163553

Fibertec IHS Project #: 40413-1

DATE: 7/14/17 BUILDING: MSU, Eustace-Cole Hall INSPECTOR: Kristin Peterson

HA #	TOTAL FOOTAGE	MATERIAL TYPE	MATERIAL CONDITION	F/NF	MATERIAL ACM (Y/N)	ASBESTOS DETECTED (Y/N)	SAMPLE #	SAMPLE LOCATION
25	2 s.f.	MM	U	NF	No	No	25-1	West entry to building.
						No	25-2	West entry to building.
HA DESCRIPTION: Exterior gray front steps caulk					NOTES:			
26	71 s.f.	MM	U	NF	No	No	26-1	Northwest corner of building.
						No	26-2	East side of building.
HA DESCRIPTION: Exterior white window caulk					NOTES:			
27	0 s.f.	MM	U	NF	Assumed	Assumed		No sample collected.
HA DESCRIPTION: Gray roof shingles and felts (tar paper)					NOTES:			
28	4 s.f.	MM	U	NF	No	No	28-1	West entry to building.
						No	28-2	East entry to building.
HA DESCRIPTION: Exterior white door caulk					NOTES:			
HA DESCRIPTION:					NOTES:			
HA DESCRIPTION:					NOTES:			

Appendix D
Bulk Sample Analytical Report

BULK SAMPLE ANALYTICAL REPORT

Fibertec IHS Project # 40413-1
NVLAP Accreditation #101510-0

Client Name: Michigan State University Environmental Health and Safety
Project Name: Michigan State University Eustace-Cole Hall, 468 East Circle Drive, East Lansing, Michigan
Summary: 65 Collected Bulk Samples, 81 Sample Layers Analyzed.

Date Sampled: 7/14/17, 7/17/17
Date Submitted: 7/17/2017
Date Analyzed: 7/20/17-7/21/17

Client P.O. #: N/A
C.O.C. #: 158176-158179, 163551-163553

Fibertec Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos Containing Portion	Analyst
01-1	01-1	Green tabular material, green linoleum with marble pattern. Layer 1 of 2.	NAD	Non-fibrous material 97% Cellulose fibers 3%	MB
01-1	01-1	Green rubbery material, mastic associated with green linoleum with marble pattern. Layer 2 of 2.	NAD	Non-fibrous material 95% Cellulose fibers 5%	MB
01-2	01-2	Green tabular material, green linoleum with marble pattern. Layer 1 of 2.	NAD	Non-fibrous material 95% Cellulose fibers 5%	MB
01-2	01-2	Green rubbery material, mastic associated with green linoleum with marble pattern. Layer 2 of 2.	NAD	Non-fibrous material 97% Cellulose fibers 3%	MB
02-1	02-1	Black tabular material, 4" black cove molding. Layer 1 of 2.	NAD	Non-fibrous material 100%	CT
02-1	02-1	Yellow rubbery material, mastic associated with 4" black cove molding. Layer 2 of 2.	NAD	Non-fibrous material 100%	CT
02-2	02-2	Black tabular material, 4" black cove molding. Layer 1 of 2.	NAD	Non-fibrous material 100%	CT

BULK SAMPLE ANALYTICAL REPORT

Fibertec IHS Project # 40413-1
 NVLAP Accreditation #101510-0

Client Name: Michigan State University Environmental Health and Safety
 Project Name: Michigan State University Eustace-Cole Hall, 468 East Circle Drive, East Lansing, Michigan
 Summary: 65 Collected Bulk Samples, 81 Sample Layers Analyzed.

Date Sampled: 7/14/17, 7/17/17
 Date Submitted: 7/17/2017
 Date Analyzed: 7/20/17-7/21/17

Client P.O. #: N/A
 C.O.C. #: 158176-158179, 163551-163553

Fibertec Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
02-2	02-2	Yellow rubbery material, mastic associated with 4" black cove molding. Layer 2 of 2.	NAD	Non-fibrous material 100%	CT
03-1	03-1	White cementitious material, white textured wall plaster.	NAD	Non-fibrous material 100%	CT
03-2	03-2	White cementitious material, white textured wall plaster.	NAD	Non-fibrous material 100%	CT
03-3	03-3	White powdery material, white textured wall plaster.	NAD	Non-fibrous material 100%	MB
03-4	03-4	White powdery material, white textured wall plaster.	NAD	Non-fibrous material 100%	MB
03-5	03-5	White powdery material, white textured wall plaster.	NAD	Non-fibrous material 100%	MB
03-6	03-6	White powdery material, white textured wall plaster.	NAD	Non-fibrous material 100%	MB

BULK SAMPLE ANALYTICAL REPORT

Fibertec IHS Project # 40413-1
NVLAP Accreditation #101510-0

Client Name: Michigan State University Environmental Health and Safety
 Project Name: Michigan State University Eustace-Cole Hall, 468 East Circle Drive, East Lansing, Michigan
 Summary: 65 Collected Bulk Samples, 81 Sample Layers Analyzed.

Date Sampled: 7/14/17, 7/17/17
 Date Submitted: 7/17/2017
 Date Analyzed: 7/20/17-7/21/17

Client P.O. #: N/A
 C.O.C. #: 158176-158179, 163551-163553

Fibertec Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
03-7	03-7	White powdery material, white textured wall plaster.	NAD	Non-fibrous material 100%	MB
04-1	04-1	Tan cementitious material, white smooth ceiling plaster.	NAD	Non-fibrous material 98% Cellulose fibers 2%	CT
04-2	04-2	Tan cementitious material, white smooth ceiling plaster.	NAD	Non-fibrous material 98% Cellulose fibers 2%	CT
04-3	04-3	Tan cementitious material, white smooth ceiling plaster.	NAD	Non-fibrous material 97% Cellulose fibers 3%	CT
04-4	04-4	White tabular material, white smooth ceiling plaster.	NAD	Non-fibrous material 100%	CT
04-5	04-5	White cementitious material, white smooth ceiling plaster.	NAD	Non-fibrous material 100%	CT
04-6	04-6	White cementitious material, white smooth ceiling plaster.	NAD	Non-fibrous material 98% Cellulose fibers 2%	CT

BULK SAMPLE ANALYTICAL REPORT

Fibertec IHS Project # 40413-1
NVLAP Accreditation #101510-0

Client Name: Michigan State University Environmental Health and Safety
Project Name: Michigan State University Eustace-Cole Hall, 468 East Circle Drive, East Lansing, Michigan
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Date Sampled: 7/14/17, 7/17/17
Date Submitted: 7/17/2017
Date Analyzed: 7/20/17-7/21/17

Client P.O. #: N/A
C.O.C. #: 158176-158179, 163551-163553

Fibertec Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
04-7	04-7	White tabular material, white smooth ceiling plaster.	NAD	Non-fibrous material 100%	CT
05-1	05-1	Green tabular material, green square pattern linoleum stair tread flooring. Layer 1 of 2.	NAD	Non-fibrous material 100%	CT
05-1	05-1	Yellow rubbery material, mastic associated with green square pattern linoleum stair tread flooring. Layer 2 of 2.	NAD	Non-fibrous material 100%	CT
05-2	05-2	Green tabular material, green square pattern linoleum stair tread flooring. Layer 1 of 2.	NAD	Non-fibrous material 100%	CT
05-2	05-2	Yellow rubbery material, mastic associated with green square pattern linoleum stair tread flooring. Layer 2 of 2.	NAD	Non-fibrous material 100%	CT
08-1	08-1	White cementitious material, interior white caulk.	NAD	Non-fibrous material 99% Cellulose fibers 1%	CT
08-2	08-2	White rubbery material, interior white caulk.	NAD	Non-fibrous material 100%	CT

BULK SAMPLE ANALYTICAL REPORT

Fibertec IHS Project # 40413-1
NVLAP Accreditation #101510-0

Client Name: Michigan State University Environmental Health and Safety
 Project Name: Michigan State University Eustace-Cole Hall, 468 East Circle Drive, East Lansing, Michigan
 Summary: 65 Collected Bulk Samples, 81 Sample Layers Analyzed.

Date Sampled: 7/14/17, 7/17/17
 Date Submitted: 7/17/2017
 Date Analyzed: 7/20/17-7/21/17

Client P.O. #: N/A
 C.O.C. #: 158176-158179, 163551-163553

Fibertec Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
09-1	09-1	Tan cementitious material, white rough textured wall plaster.	NAD	Non-fibrous material 100%	CT
09-2	09-2	Tan cementitious material, white rough textured wall plaster.	NAD	Non-fibrous material 100%	CT
09-3	09-3	Tan cementitious material, white rough textured wall plaster.	NAD	Non-fibrous material 100%	CT
10-1	10-1	Brown fibrous material, drywall. Layer 1 of 2.	NAD	Cellulose fibers 98% Non-fibrous material 2%	CT
10-1	10-1	Gray cementitious material, drywall. Layer 2 of 2.	NAD	Non-fibrous material 97% Cellulose fibers 3%	CT
10-2	10-2	Brown fibrous material, drywall. Layer 1 of 2.	NAD	Cellulose fibers 99% Non-fibrous material 1%	CT
10-2	10-2	Gray cementitious material, drywall. Layer 2 of 2.	NAD	Non-fibrous material 98% Cellulose fibers 2%	CT

BULK SAMPLE ANALYTICAL REPORT

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NVLAP Accreditation #101510-0

Client Name: Michigan State University Environmental Health and Safety
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 Summary: 65 Collected Bulk Samples, 81 Sample Layers Analyzed.

Date Sampled: 7/14/17, 7/17/17
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Client P.O. #: N/A
 C.O.C. #: 158176-158179, 163551-163553

Fibertec Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
10-3	10-3	Brown fibrous material, drywall.	NAD	Cellulose fibers 95% Non-fibrous material 5%	CT
10-4	10-4	White tabular material, drywall.	NAD	Non-fibrous material >99% Cellulose fibers <1%	CT
10-5	10-5	Brown fibrous material, drywall. Layer 1 of 2.	NAD	Cellulose fibers 99% Non-fibrous material 1%	CT
10-5	10-5	Gray cementitious material, drywall. Layer 2 of 2.	NAD	Non-fibrous material 98% Cellulose fibers 2%	CT
11-1	11-1	White tabular material, drywall joint compound.	NAD	Non-fibrous material 100%	CT
11-3	11-3	White tabular material, drywall joint compound.	NAD	Non-fibrous material 100%	CT
11-4	11-4	White tabular material, drywall joint compound.	NAD	Non-fibrous material 100%	CT

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NVLAP Accreditation #101510-0

Client Name: Michigan State University Environmental Health and Safety
Project Name: Michigan State University Eustace-Cole Hall, 468 East Circle Drive, East Lansing, Michigan
Summary: 65 Collected Bulk Samples, 81 Sample Layers Analyzed.

Date Sampled: 7/14/17, 7/17/17 Client P.O. #: N/A
Date Submitted: 7/17/2017 C.O.C. #: 158176-158179, 163551-163553
Date Analyzed: 7/20/17-7/21/17

Fibertec Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
11-5	11-5	White tabular material, drywall joint compound.	NAD	Non-fibrous material 100%	CT
12-1	12-1	Brown fibrous material, fiberboard wall panels and mastic. Layer 1 of 2.	NAD	Cellulose fibers 98% Non-fibrous material 2%	CT
12-1	12-1	Black fibrous material, fiberboard wall panels and mastic. Layer 2 of 2.	NAD	Cellulose fibers 90% Non-fibrous material 10%	CT
12-2	12-2	Brown fibrous material, fiberboard wall panels and mastic. Layer 1 of 2.	NAD	Cellulose fibers 98% Non-fibrous material 2%	CT
12-2	12-2	Black tabular material, fiberboard wall panels and mastic. Layer 2 of 2.	NAD	Cellulose fibers 85% Non-fibrous material 15%	CT
13-1	13-1	Black asphaltic material, black mastic on floor.	NAD	Non-fibrous material >99% Cellulose fibers <1%	CT
13-2	13-2	Black asphaltic material, black mastic on floor.	NAD	Non-fibrous material 100%	CT

BULK SAMPLE ANALYTICAL REPORT

Fibertec IHS Project # 40413-1
NVLAP Accreditation #101510-0

Client Name: Michigan State University Environmental Health and Safety
Project Name: Michigan State University Eustace-Cole Hall, 468 East Circle Drive, East Lansing, Michigan
Summary: 65 Collected Bulk Samples, 81 Sample Layers Analyzed.

Date Sampled: 7/14/17, 7/17/17
Date Submitted: 7/17/2017
Date Analyzed: 7/20/17-7/21/17

Client P.O. #: N/A
C.O.C. #: 158176-158179, 163551-163553

Fibertec Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
13-3	13-3	Black asphaltic material, black mastic on floor.	NAD	Non-fibrous material >99% Cellulose fibers <1%	CT
14-1	14-1	Black tabular material, black linoleum. Layer 1 of 2.	NAD	Non-fibrous material 100%	CT
14-1	14-1	Clear rubbery material, black linoleum glue. Layer 2 of 2.	NAD	Non-fibrous material 100%	CT
14-2	14-2	Black tabular material, black linoleum.	NAD	Non-fibrous material 100%	CT
15-1	15-1	Yellow rubbery material, yellow carpet mastic.	NAD	Non-fibrous material 100%	CT
15-2	15-2	Yellow rubbery material, yellow carpet mastic.	NAD	Non-fibrous material 100%	CT
16-1	16-1	Red tabular material, 4" maroon cove molding. Layer 1 of 2.	NAD	Non-fibrous material 100%	CT

BULK SAMPLE ANALYTICAL REPORT

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NVLAP Accreditation #101510-0

Client Name: Michigan State University Environmental Health and Safety
 Project Name: Michigan State University Eustace-Cole Hall, 468 East Circle Drive, East Lansing, Michigan
 Summary: 65 Collected Bulk Samples, 81 Sample Layers Analyzed.

Date Sampled: 7/14/17, 7/17/17
 Date Submitted: 7/17/2017
 Date Analyzed: 7/20/17-7/21/17

Client P.O. #: N/A
 C.O.C. #: 158176-158179, 163551-163553

Fibertec Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
16-1	16-1	Yellow rubbery material, mastic associated with 4" maroon cove molding. Layer 2 of 2.	NAD	Non-fibrous material 100%	CT
16-2	16-2	Red tabular material, 4" maroon cove molding. Layer 1 of 2.	NAD	Non-fibrous material 100%	CT
16-2	16-2	Yellow rubbery material, mastic associated with 4" maroon cove molding. Layer 2 of 2.	NAD	Non-fibrous material 100%	CT
17-1	17-1	Gold fibrous material, white 12" x 12" glued-on ceiling tile with uniform holes.	NAD	Cellulose fibers 99% Non-fibrous material 1%	CT
17-2	17-2	Gold fibrous material, white 12" x 12" glued-on ceiling tile with uniform holes.	NAD	Cellulose fibers 99% Non-fibrous material 1%	CT
19-1	19-1	Gray tabular material, green linoleum with texture. Layer 1 of 2.	NAD	Non-fibrous material 100%	CT
19-1	19-1	Red tabular material, mastic associated with green linoleum with texture. Layer 2 of 2.	NAD	Non-fibrous material 100%	CT

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NVLAP Accreditation #101510-0

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 Project Name: Michigan State University Eustace-Cole Hall, 468 East Circle Drive, East Lansing, Michigan
 Summary: 65 Collected Bulk Samples, 81 Sample Layers Analyzed.

Date Sampled: 7/14/17, 7/17/17
 Date Submitted: 7/17/2017
 Date Analyzed: 7/20/17-7/21/17

Client P.O. #: N/A
 C.O.C. #: 158176-158179, 163551-163553

Fibertec Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
19-2	19-2	Gray tabular material, green linoleum with texture. Layer 1 of 2.	NAD	Non-fibrous material 100%	CT
19-2	19-2	Red tabular material, mastic associated with green linoleum with texture. Layer 2 of 2.	NAD	Non-fibrous material 100%	CT
20-1	20-1	Gray tabular material, gray sink undercoating.	NAD	Non-fibrous material 90% Cellulose fibers 10%	CT
20-2	20-2	Gray tabular material, gray sink undercoating.	NAD	Non-fibrous material 90% Cellulose fibers 10%	CT
21-1	21-1	Tan rubbery material, interior light brown window sill caulk.	NAD	Non-fibrous material 100%	CT
21-2	21-2	Tan rubbery material, interior light brown window sill caulk.	NAD	Non-fibrous material 100%	CT
22-1	22-1	Red rubbery material, interior red brick caulk.	NAD	Non-fibrous material 100%	CT

BULK SAMPLE ANALYTICAL REPORT

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Client Name: Michigan State University Environmental Health and Safety
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Date Sampled: 7/14/17, 7/17/17
Date Submitted: 7/17/2017
Date Analyzed: 7/20/17-7/21/17

Client P.O. #: N/A
C.O.C. #: 158176-158179, 163551-163553

Fibertec Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
22-2	22-2	Red rubbery material, interior red brick caulk.	NAD	Non-fibrous material 100%	CT
23-1	23-1	Black fibrous and asphaltic material, exterior black waterproofing caulk.	Chrysotile 20%	Non-fibrous material 75% Cellulose fibers 5%	CT
23-2	23-2	Black fibrous and asphaltic material, exterior black waterproofing caulk.	Chrysotile 20%	Non-fibrous material 75% Cellulose fibers 5%	CT
24-1	24-1	Gray rubbery material, exterior brown building caulk.	NAD	Non-fibrous material 100%	CT
24-2	24-2	Gray rubbery material, exterior brown building caulk.	NAD	Non-fibrous material 100%	CT
25-1	25-1	Gray rubbery material, exterior gray caulk on steps.	NAD	Non-fibrous material 100%	CT
25-2	25-2	Gray rubbery material, exterior gray caulk on steps.	NAD	Non-fibrous material 100%	CT

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Date Sampled: 7/14/17, 7/17/17
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Date Analyzed: 7/20/17-7/21/17

Client P.O. #: N/A
C.O.C. #: 158176-158179, 163551-163553

Fibertec Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
26-1	26-1	Gray rubbery material, exterior white window caulk.	NAD	Non-fibrous material 100%	CT
26-2	26-2	Gray rubbery material, exterior white window caulk.	NAD	Non-fibrous material 100%	CT
28-1	28-1	White rubbery material, exterior white door caulk.	NAD	Non-fibrous material 100%	CT
28-2	28-2	White rubbery material, exterior white door caulk.	NAD	Non-fibrous material 100%	CT

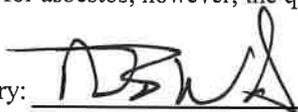
Comments

Bulk samples are analyzed using the USEPA Test Method EPA/600/R-93/116. The constituent percent reported represents an estimate of the area percent of the component. The test report relates only to items tested. This report is not intended to be used as a product endorsement by NVLAP or any agency of the U.S. Government. Fine fibers like those in floor tile may not be discernible by this method. This report shall not be reproduced, except in full, without the written approval of the laboratory. Individual sample layers are homogeneous, unless otherwise noted. Test items were received in acceptable condition. Revision 4.0 dated 12/8/2010.

If no asbestos was/were detected in the sample/samples the acronym NAD (no asbestos detected) will appear in the Asbestos Type column of the report.

NOTE: Sample submittals for Samples 3-2, 4-4, 8-1, 8-2, 9-3, 10-3, 11-4, 11-5, 13-1, 13-2, 14-1, 20-1 and 21-2 were very small in quantity, but analyzed for asbestos; however, the quantity of Sample 11-2 was insufficient for analysis.

Approved Signatory:



Date:

7/24/17

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
email: lab@fibertec.us

Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0382
email: asbestos@fibertechs.com

Geoprobe
11766 E. Grand River Rd.
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Client Name: MSU EHS		Matrix Code		Deliverables	
Contact Person: K. Peterson		S Soil		Level 2	
Project Name/ Number: #40413-1 MSU Eustace Cole Hall		A Air		Level 3	
Email distribution list:		O Oil		Level 4	
Quote#		P Wipe		EDD	
Purchase Order#		Other: Specify pulk			
Date		Matrix Code			
Time		GW Ground Water			
Sample #		SW Surface Water			
Client Sample Descriptor		WW Waste Water			
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Date		S Soil			

Client Name: MSU - EHS		Client Sample Descriptor		Matrix (SEE RIGHT CORNER FOR CODE)		# OF CONTAINERS		PARAMETERS		Matrix Code		Deliverables	
Contact Person: K. Peterson										S Soil A Air O Oil P Wipe		Ground Water Surface Water Waste Water Other: Specify	
Project Name/ Number: # 404B-1 MSU Eustace Cole Hall										GW SW WW <input checked="" type="checkbox"/> Other: Specify		Level 2 Level 3 Level 4 EDD	
Email distribution list:													
Quote #													
Purchase Order #													
Date	Time	Sample #	Client Sample Descriptor	MATRIX	# OF CONTAINERS								
7/14/17		16-2	4" maroon cover moldings + asso mastic	X	1								
		19-1	Green linoleum with texture + asso mastic	X	1								
		19-2	"	X	1								
		20-1	Gray sink undercoatings	X	1								
		20-2	"	X	1								
		21-1	Interior light brown window side caulk	X	1								
		21-2	"	X	1								
		22-1	Interior red brick caulk	X	1								
		22-2	"	X	1								
		23-1	Exterior black water footings	X	1								
Comments:													
Sampled/Relinquished By: [Signature]		Date/ Time		Date/ Time		Date/ Time		Received By: [Signature]		Date/ Time		Received By: [Signature]	
		7/14/17		7/14/17		7/14/17		7/17/17		7:50		7:50	
Relinquished By: [Signature]		Date/ Time		Date/ Time		Date/ Time		Received By: [Signature]		Date/ Time		Received By: [Signature]	
		7/17/17		7:50		7:50		Way Ten 130		7-20-17		1227	
Relinquished By: [Signature]		Date/ Time		Date/ Time		Date/ Time		Received By Laboratory:		Date/ Time		Received By Laboratory:	
		7/17/17		7:50		7:50							
Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY													
1 bus. day		2 bus. days		3 bus. days		4 bus. days		LAB USE ONLY		Fibertec project number:		Temperature upon receipt at Lab:	
X 5-7 bus. days (standard)		Other (specify time/date requirement):											
Please see back for terms and conditions													

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
email: lab@fibertec.us

Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0382
email: asbestos@fibertechs.com

Geoprobe
11766 E. Grand River Rd.
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Client Name: <u>MSU EHS</u>		MATRIX (SEE RIGHT CORNER FOR CODE)		PARAMETERS		Matrix Code		Deliverables	
Contact Person: <u>K. Peterson</u>		# OF CONTAINERS		S Soil		GW Ground Water		Level 2	
Project Name/ Number: <u># 40413-1</u>		MATERIALS		A Air		SW Surface Water		Level 3	
Email distribution list: <u>468 E. Circle Dr. E. Lansing</u>		CLIENT SAMPLE		O Oil		WW Waste Water		Level 4	
Quote#		HOLD SAMPLE		P Wipe		Other: Specify		EDD	
Purchase Order# <u>336931</u>		Client Sample Descriptor		X		<u>bulm</u>			
Date	Time	Sample #							
<u>7/17/17</u>		<u>1-1</u>	<u>Green linoleum with marble pattern + asse master</u>	<u>X</u>					
		<u>1-2</u>	<u>"</u>	<u>X</u>					
		<u>3-3</u>	<u>white textured wall plaster</u>	<u>X</u>					
		<u>3-4</u>	<u>"</u>	<u>X</u>					
		<u>3-5</u>	<u>"</u>	<u>X</u>					
		<u>3-6</u>	<u>"</u>	<u>X</u>					
		<u>3-7</u>	<u>"</u>	<u>X</u>					
		<u>4-1</u>	<u>white smooth ceiling plaster</u>	<u>X</u>					
		<u>4-2</u>	<u>"</u>	<u>X</u>					
		<u>4-3</u>	<u>"</u>	<u>X</u>					
Comments:									
Sampled/Relinquished By: <u>[Signature]</u>		Date/ Time		Received By: <u>[Signature]</u>		Date/ Time		Received By Laboratory:	
		<u>7/17/17</u>				<u>7/17/17 14:48</u>			
Relinquished By: <u>[Signature]</u>		Date/ Time		Received By: <u>[Signature]</u>		Date/ Time		Received By Laboratory:	
		<u>7/17/17 14:48</u>				<u>7/20/17 12:32 pm</u>			
Relinquished By: <u>[Signature]</u>		Date/ Time		Received By: <u>[Signature]</u>		Date/ Time		Received By Laboratory:	
		<u>7/17/17 14:48</u>				<u>7/20/17 12:32 pm</u>			
Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY									
1 bus. day		2 bus. days		3 bus. days		4 bus. days		LAB USE ONLY	
<u>X</u> 5-7 bus. days (standard)		Other (specify time/date requirement):		Fibertec project number:		Temperature upon receipt at Lab:			
Please see back for terms and conditions									

Analytical Laboratory
1914 Holloway Drive
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Geoprobe
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Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Client Name: MSU EHS		MATRIX (SEE RIGHT CORNER FOR CODE)		PARAMETERS		Matrix Code		Deliverables	
Contact Person: K. Peterson		# OF CONTAINERS		S Soil		GW Ground Water		Level 2	
Project Name/ Number: #40413-1, Eustace Cole Hall, 468 E. Circle Dr., E. Lansing		X 1 X PLM		A Air		SW Surface Water		Level 3	
Email distribution list:		X 1 X		O Oil		WW Waste Water		Level 4	
Quote #		X 1 X		P Wipe		Other: Specify bulk		EDD	
Purchase Order #		X 1 X		Remarks: test all samples					
Date		X 1 X							
Sample #		X 1 X							
Client Sample Descriptor		X 1 X							
11-3 Drywall joint compound		X 1 X							
11-4 DJC		X 1 X							
11-5 DJC		X 1 X							
15-1 Yellow carpet mastic		X 1 X							
15-2 "		X 1 X							
17-1 white 12"x18" glue-on ceiling tiles with uniform holes		X 1 X							
17-2 "		X 1 X							
28-1 Exterior white door caulk		X 1 X							
28-2 "		X 1 X							
Comments:		Date/Time		Received By:		Date/Time			
		7/17/17		<i>[Signature]</i>		7/17/17 14:48			
		Date/Time		Received By:		Date/Time			
				<i>[Signature]</i>		07/20/17 12:32 pm			
		Date/Time		Received By Laboratory:					
Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY		1 bus. day		2 bus. days		3 bus. days		4 bus. days	
Fibertec project number:									
Temperature upon receipt at Lab:									
Other (specify time/date requirement):									
X 5-7 bus. days (standard)									
Please see back for terms and conditions									

Appendix E
Room by Room Asbestos Building Inspection Form

Room by Room Asbestos Building Inspection Form Explanation Page

Location – Each room or area within the structure is identified by a unique room number or area designation.

Floor – Describes the level on which the room or area was located.

Material Description – Each identified material is described including the major color, size and pattern observed in the material. The condition of each material is also described. Material with no damage is considered undamaged. Material with more than zero but less than 10 percent damage by area overall or less than 25 percent damage locally is considered damaged. Material with more than 10 percent damage overall or more than 25 percent damage by area locally is considered significantly damaged. Material whose condition could not be determined is reported as unknown.

Quantity – The estimated quantity of material in each space or room number is reported in units of linear feet (l.f.), square feet (s.f.) or count (ct.). In the case of pipe joint insulation, the actual number of observed joints (the count) is reported.

Homogenous Area (HA) Number – The number given the specific homogenous area which represents a given material.

Asbestos-Containing – Those materials found to contain more than one percent asbestos are considered asbestos-containing material (ACM) and are marked Y for yes. Those materials found to contain equal to or less than one percent asbestos are considered non-asbestos containing and are marked N for no.

Material Condition – Material condition is classified into one of three categories: 1) Undamaged material (U) has no damage, 2) Damaged material (D) has >0-10% damage or less than 25% damage locally, or 3) Significantly damaged material (SD) has more than 10% damage overall or >25% damage locally.

Room by Room Asbestos Building Inspection Form
Eustace-Cole Hall
468 East Circle Drive, East Lansing, Michigan
Fibertec IHS Project # 40413-1

Floor	Location	HA #	Material Description	ACM (Y/N)	Condition	Quantity	Units	Notes
Basement	B10 Mechanical Room	13	Black mastic on floor	No	Undamaged	168	s.f.	
Basement	B10 Mechanical Room	9	White rough texture plaster	No	Undamaged	325	s.f.	
Basement	B10 Mechanical Room	10	Drywall	No	Undamaged	188	s.f.	
Basement	B10 Mechanical Room	11	Drywall, joint compound	No	Undamaged	94	s.f.	
Basement	B10 Mechanical Room	12	Fiberboard wall panels and associated mastic	No	Undamaged	88	s.f.	
Basement	B10 Men's Restroom	6	Ceramic floor tile bedding compound and grout	Assumed	Undamaged	140	s.f.	
Basement	B10 Men's Restroom	7	Ceramic wall tile bedding compound and grout	Assumed	Undamaged	192	s.f.	
Basement	B10 Men's Restroom	3	White textured wall plaster	No	Undamaged	384	s.f.	
Basement	B10 Men's Restroom	4	White smooth ceiling plaster	No	Undamaged	20	s.f.	
Basement	B10 Men's Restroom	10	Drywall	No	Undamaged	120	s.f.	
Basement	B10 Men's Restroom	11	Drywall, joint compound	No	Undamaged	60	s.f.	no suspect ACM
Basement	B10B Phone Room	15	Yellow carpet mastic	No	Undamaged	50	s.f.	no carpet
Basement	B13	4	White smooth ceiling plaster	No	Undamaged	50	s.f.	
Basement	B13	2	4" black cove molding and associated mastic	No	Undamaged	10	s.f.	
Basement	B14 Women's Restroom	6	Ceramic floor tile bedding compound and grout	Assumed	Undamaged	208	s.f.	
Basement	B14 Women's Restroom	7	Ceramic wall tile bedding compound and grout	Assumed	Undamaged	416	s.f.	
Basement	B14 Women's Restroom	3	White textured wall plaster	No	Undamaged	50	s.f.	
Basement	B14 Women's Restroom	4	White smooth ceiling plaster	No	Undamaged	169	s.f.	
Basement	B14 Women's Restroom	10	Drywall	No	Undamaged	100	s.f.	
Basement	B14 Women's Restroom	11	Drywall, joint compound	No	Undamaged	50	s.f.	
Basement	B22	15	Yellow carpet mastic	No	Undamaged	135	s.f.	
Basement	B22	16	4" maroon cove molding and associated mastic	No	Undamaged	16	s.f.	
Basement	B22	3	White textured wall plaster	No	Undamaged	384	s.f.	
Basement	B22	4	White smooth ceiling plaster	No	Undamaged	135	s.f.	
Basement	B25	15	Yellow carpet mastic	No	Undamaged	180	s.f.	
Basement	B25	16	4" maroon cove molding and associated mastic	No	Undamaged	29	s.f.	
Basement	B25	3	White textured wall plaster	No	Undamaged	464	s.f.	
Basement	B25	4	White smooth ceiling plaster	No	Undamaged	180	s.f.	
Basement	B30	15	Yellow carpet mastic	No	Undamaged	182	s.f.	
Basement	B30	16	4" maroon cove molding and associated mastic	No	Undamaged	18	s.f.	
Basement	B30	3	White textured wall plaster	No	Undamaged	420	s.f.	
Basement	B30	4	White smooth ceiling plaster	No	Undamaged	182	s.f.	
Basement	B35 Storage Room	1	Green 2' x 2' linoleum with marble pattern and associated mastic	No	Undamaged	140	s.f.	
Basement	B35 Storage Room	2	4" black cove molding and associated mastic	No	Undamaged	15	s.f.	
Basement	B35 Storage Room	3	White textured wall plaster	No	Undamaged	400	s.f.	
Basement	B35 Storage Room	4	White smooth ceiling plaster	No	Undamaged	140	s.f.	locked no access
Basement	B48	15	Yellow carpet mastic	No	Undamaged	178	s.f.	
Basement	B5	2	4" black cove molding and associated mastic	No	Undamaged	22	s.f.	
Basement	B5	10	Drywall	No	Undamaged	416	s.f.	
Basement	B5	11	Drywall, joint compound	No	Undamaged	208	s.f.	

Room by Room Asbestos Building Inspection Form
 Eustace-Cole Hall
 468 East Circle Drive, East Lansing, Michigan
 Fibertec IHS Project # 40413-1

Floor	Location	HA #	Material Description	ACM (Y/N)	Condition	Quantity	Units	Notes
Basement	B5	3	White textured wall plaster	No	Undamaged	80	s.f.	
Basement	B5A	15	Yellow carpet mastic	No	Undamaged	206	s.f.	
Basement	B5A	2	4" black cove molding and associated mastic	No	Undamaged	17	s.f.	
Basement	B5A	10	Drywall	No	Undamaged	352	s.f.	
Basement	B5A	11	Drywall joint compound	No	Undamaged	106	s.f.	
Basement	B5A	3	White textured wall plaster	No	Undamaged	300	s.f.	
Basement	B5B	3	White textured wall plaster	No	Undamaged	15	s.f.	
Basement	B5B	4	White smooth ceiling plaster	No	Undamaged	15	s.f.	
Basement	B5B	17	White 12" x 12" glued-on ceiling tile with uniform holes	No	Undamaged	15	s.f.	
Basement	B5B	18	Gluepods associated with 12" x 12" ceiling tile	Assumed	Undamaged	15	s.f.	
Basement	B5B	15	Yellow carpet mastic	No	Undamaged	15	s.f.	
Basement	Elevator	14	Black linoleum and associated mastic	No	Undamaged	35	s.f.	
Basement	HW1	1	Green 2' x 2' linoleum with marble pattern and associated mastic	No	Undamaged	419	s.f.	
Basement	HW1	2	4" black cove molding and associated mastic	No	Undamaged	56	s.f.	
Basement	HW1	3	White textured wall plaster	No	Undamaged	1,400	s.f.	
Basement	HW1	10	Drywall	No	Undamaged	500	s.f.	
Basement	HW1	10	Drywall	No	Undamaged	160	s.f.	
Basement	HW1	11	Drywall joint compound	No	Undamaged	80	s.f.	
Basement	HW1	11	Drywall joint compound	No	Undamaged	250	s.f.	locked no access
1st	103							
1st	105	15	Yellow carpet mastic	No	Undamaged	516	s.f.	
1st	105	3	White textured wall plaster	No	Undamaged	1,055	s.f.	
1st	105	4	White smooth ceiling plaster	No	Undamaged	516	s.f.	
1st	107	15	Yellow carpet mastic	No	Undamaged	238	s.f.	
1st	107	3	White textured wall plaster	No	Undamaged	674	s.f.	
1st	107	4	White smooth ceiling plaster	No	Undamaged	238	s.f.	
1st	110	3	White textured wall plaster	No	Undamaged	720	s.f.	
1st	110	4	White smooth ceiling plaster	No	Undamaged	289	s.f.	
1st	110	8	Interior white window caulk	No	Undamaged	8	s.f.	
1st	110	15	Yellow carpet mastic	No	Undamaged	289	s.f.	
1st	115	15	Yellow carpet mastic	No	Undamaged	132	s.f.	
1st	115	3	White textured wall plaster	No	Undamaged	502	s.f.	
1st	115	4	White smooth ceiling plaster	No	Undamaged	132	s.f.	
1st	115	8	Interior white window caulk	No	Undamaged	4	s.f.	
1st	125	15	Yellow carpet mastic	No	Undamaged	210	s.f.	
1st	125	3	White textured wall plaster	No	Undamaged	623	s.f.	
1st	125	4	White smooth ceiling plaster	No	Undamaged	210	s.f.	
1st	130	19	Green linoleum with texture and associated mastic	No	Undamaged	25	s.f.	
1st	130	3	White textured wall plaster	No	Undamaged	100	s.f.	
1st	130	4	White smooth ceiling plaster	No	Undamaged	25	s.f.	
1st	105 Closet	19	Green linoleum with texture and associated mastic	No	Undamaged	40	s.f.	
1st	105 Closet	16	4" maroon cove molding and associated mastic	No	Undamaged	8	s.f.	

Room by Room Asbestos Building Inspection Form
 Eustace-Cole Hall
 468 East Circle Drive, East Lansing, Michigan
 Fibertec IHS Project # 40413-1

Floor	Location	HA #	Material Description	ACM (Y/N)	Condition	Quantity	Units	Notes
1st	105A	15	Yellow carpet mastic	No	Undamaged	120	s.f.	
1st	105A	3	White textured wall plaster	No	Undamaged	253	s.f.	
1st	105A	4	White smooth ceiling plaster	No	Undamaged	120	s.f.	
1st	B130	15	Yellow carpet mastic	No	Undamaged	285	s.f.	
1st	B130	3	White textured wall plaster	No	Undamaged	748	s.f.	
1st	B130	4	White smooth ceiling plaster	No	Undamaged	285	s.f.	
1st	Elevator Lobby	6	Ceramic floor tile bedding compound and grout	Assumed	Undamaged	88	s.f.	
1st	Elevator Lobby	3	White textured wall plaster	No	Undamaged	297	s.f.	
1st	Elevator Lobby	4	White smooth ceiling plaster	No	Undamaged	88	s.f.	
1st	Elevator Lobby	21	Interior light brown window sill caulk	No	Undamaged	1	s.f.	
1st	Elevator Lobby	22	Interior red brick caulk	No	Undamaged	5	s.f.	
1st	Exterior	28	Exterior white door caulk	No	Undamaged	4	s.f.	
1st	HW1	19	Green linoleum with texture and associated mastic	No	Undamaged	207	s.f.	
1st	HW1	3	White textured wall plaster	No	Undamaged	462	s.f.	
1st	HW1	3	White textured wall plaster	No	Undamaged	207	s.f.	
2nd	208	15	Yellow carpet mastic	No	Undamaged	520	s.f.	
2nd	208	3	White textured wall plaster	No	Undamaged	560	s.f.	
2nd	208	4	White smooth ceiling plaster	No	Undamaged	620	s.f.	
2nd	212	15	Yellow carpet mastic	No	Undamaged	160	s.f.	
2nd	212	16	4" maroon cove molding and associated mastic	No	Undamaged	17	s.f.	
2nd	212	3	White textured wall plaster	No	Undamaged	624	s.f.	
2nd	212	4	White smooth ceiling plaster	No	Undamaged	160	s.f.	
2nd	215	15	Yellow carpet mastic	No	Undamaged	160	s.f.	
2nd	215	16	4" maroon cove molding and associated mastic	No	Undamaged	16	s.f.	
2nd	215	3	White textured wall plaster	No	Undamaged	624	s.f.	
2nd	215	4	White smooth ceiling plaster	No	Undamaged	160	s.f.	
2nd	220	15	Yellow carpet mastic	No	Undamaged	221	s.f.	
2nd	220	16	4" maroon cove molding and associated mastic	No	Undamaged	20	s.f.	
2nd	220	3	White textured wall plaster	No	Undamaged	744	s.f.	
2nd	220	4	White smooth ceiling plaster	No	Undamaged	221	s.f.	
2nd	225	15	Yellow carpet mastic	No	Undamaged	195	s.f.	
2nd	225	16	4" maroon cove molding and associated mastic	No	Undamaged	17	s.f.	
2nd	225	3	White textured wall plaster	No	Undamaged	672	s.f.	
2nd	225	4	White smooth ceiling plaster	No	Undamaged	195	s.f.	
2nd	230	15	Yellow carpet mastic	No	Undamaged	132	s.f.	
2nd	230	3	White textured wall plaster	No	Undamaged	552	s.f.	
2nd	230	4	White smooth ceiling plaster	No	Undamaged	132	s.f.	
2nd	207 and Closet	15	Yellow carpet mastic	No	Undamaged	520	s.f.	
2nd	207 and Closet	3	White textured wall plaster	No	Undamaged	560	s.f.	
2nd	207 and Closet	4	White smooth ceiling plaster	No	Undamaged	620	s.f.	
2nd	208A	15	Yellow carpet mastic	No	Undamaged	40	s.f.	
2nd	208A	4	White smooth ceiling plaster	No	Undamaged	40	s.f.	

Room by Room Asbestos Building Inspection Form

Eustace-Cole Hall

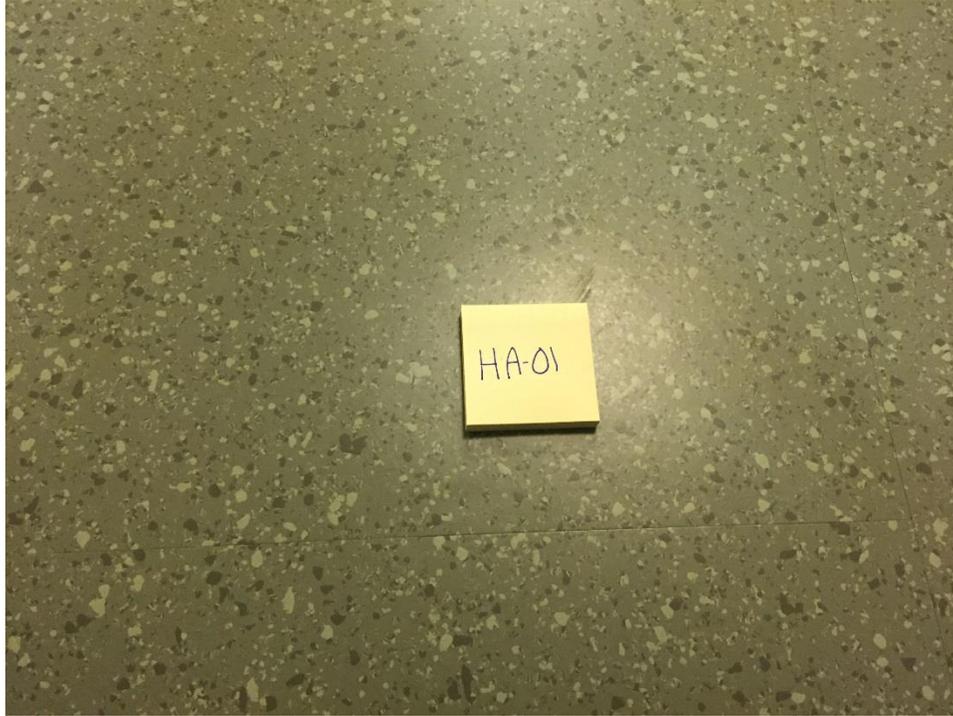
468 East Circle Drive, East Lansing, Michigan

Fibertec IHS Project # 40413-1

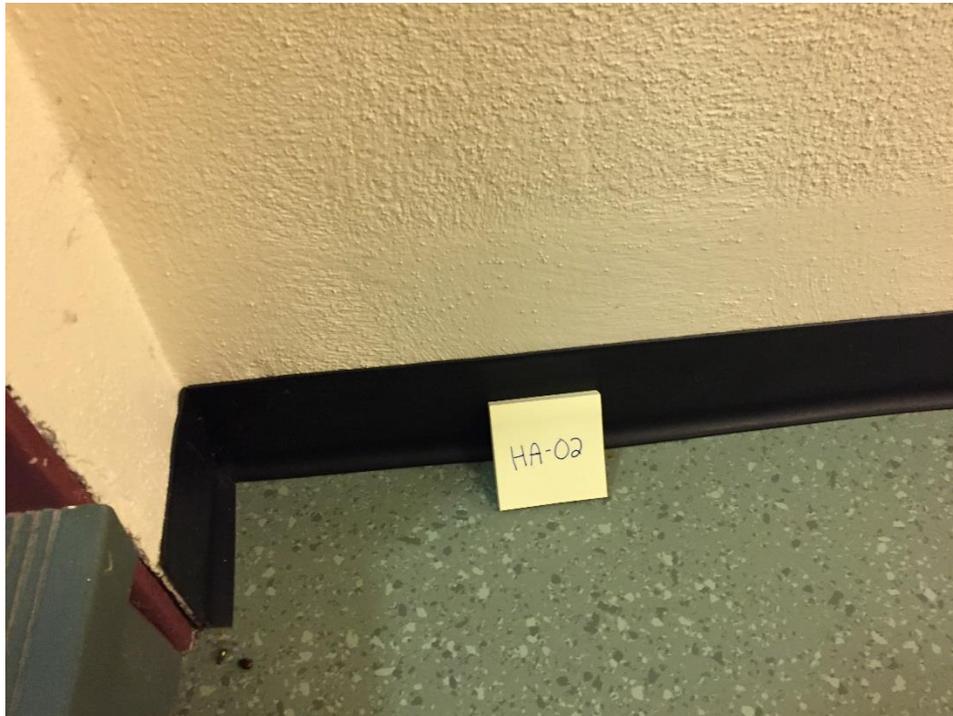
Floor	Location	HA #	Material Description	ACM (Y/N)	Condition	Quantity	Units	Notes
2nd	208A	16	4" maroon cove molding and associated mastic	No	Undamaged	9	s.f.	
2nd	Hallway of Offices	15	Yellow carpet mastic	No	Undamaged	126	s.f.	
2nd	Hallway of Offices	3	White textured wall plaster	No	Undamaged	432	s.f.	
2nd	Hallway of Offices	4	White smooth ceiling plaster	No	Undamaged	126	s.f.	
2nd	HW1	19	Green linoleum with texture and associated mastic	No	Undamaged	110	s.f.	
2nd	HW1	16	4" maroon cove molding and associated mastic	No	Undamaged	14	s.f.	
2nd	HW1	3	White textured wall plaster	No	Undamaged	970	s.f.	
2nd	HW1	4	White smooth ceiling plaster	No	Undamaged	321	s.f.	
2nd	HW1	20	Gray sink undercoating	No	Undamaged	1	ct.	
Staircase	SW1	5	Green square pattern stair tread and associated mastic	No	Undamaged	202	s.f.	
Staircase	SW1	4	White smooth ceiling plaster	No	Undamaged	300	s.f.	
Staircase	SW1	3	White textured wall plaster	No	Undamaged	664	s.f.	
Staircase	SW1	16	4" maroon cove molding and associated mastic	No	Undamaged	15	s.f.	
Staircase	SW2	5	Green square pattern stair tread and associated mastic	No	Undamaged	420	s.f.	
Staircase	SW2	4	White smooth ceiling plaster	No	Undamaged	481	s.f.	
Staircase	SW2	3	White textured wall plaster	No	Undamaged	792	s.f.	
Staircase	SW2	16	4" maroon cove molding and associated mastic	No	Undamaged	16	s.f.	
Staircase	SW2	6	Ceramic floor tile bedding compound and grout	Assumed	Undamaged	113	s.f.	
Staircase	SW2	21	Interior light brown window sill caulk	No	Undamaged	1	s.f.	
Staircase	SW2	8	Interior white window caulk	No	Undamaged	3	s.f.	
Exterior	Exterior	25	Exterior gray front steps caulk	No	Undamaged	2	s.f.	
Exterior	Exterior	23	Exterior black waterproofing	Yes	Undamaged	3	s.f.	that is visible
Exterior	Exterior	24	Exterior brown building caulk	No	Undamaged	20	s.f.	
Exterior	Exterior	26	Exterior white window caulk	No	Undamaged	71	s.f.	1x4-6,5x7-3,1x3-5,3x3-18, 3x7-18
Exterior	Exterior	27	Gray roof shingles and felts (tar paper)	Assumed	Undamaged	2,000	s.f.	

Appendix F
Digital Photograph Log

Eustace-Cole Hall
468 East Circle Drive
East Lansing, Michigan

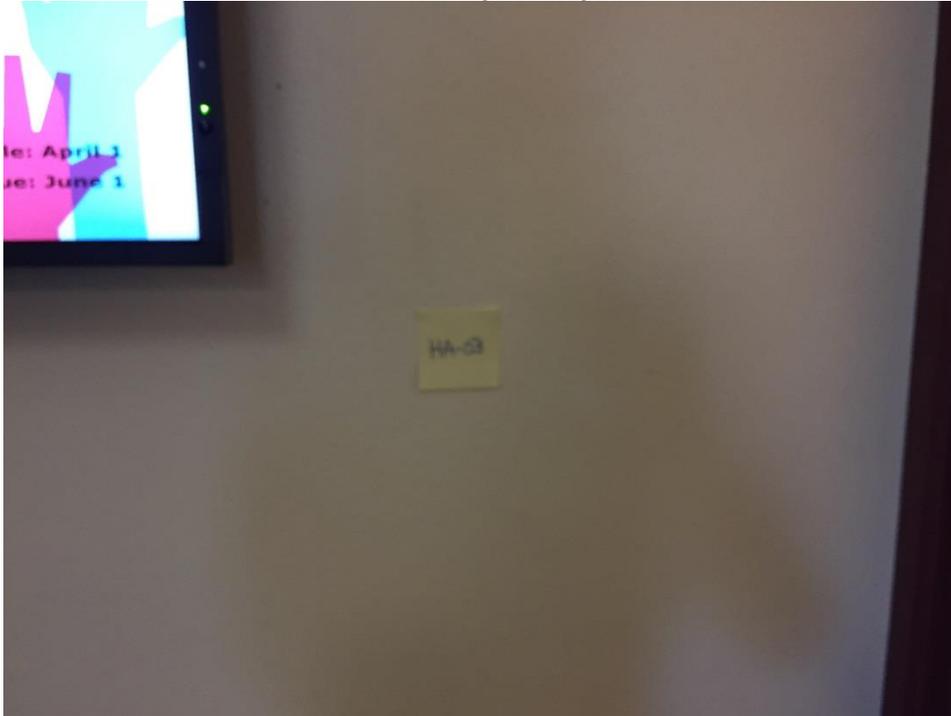


HA-01 Non-asbestos containing green linoleum with marble pattern and associated mastic

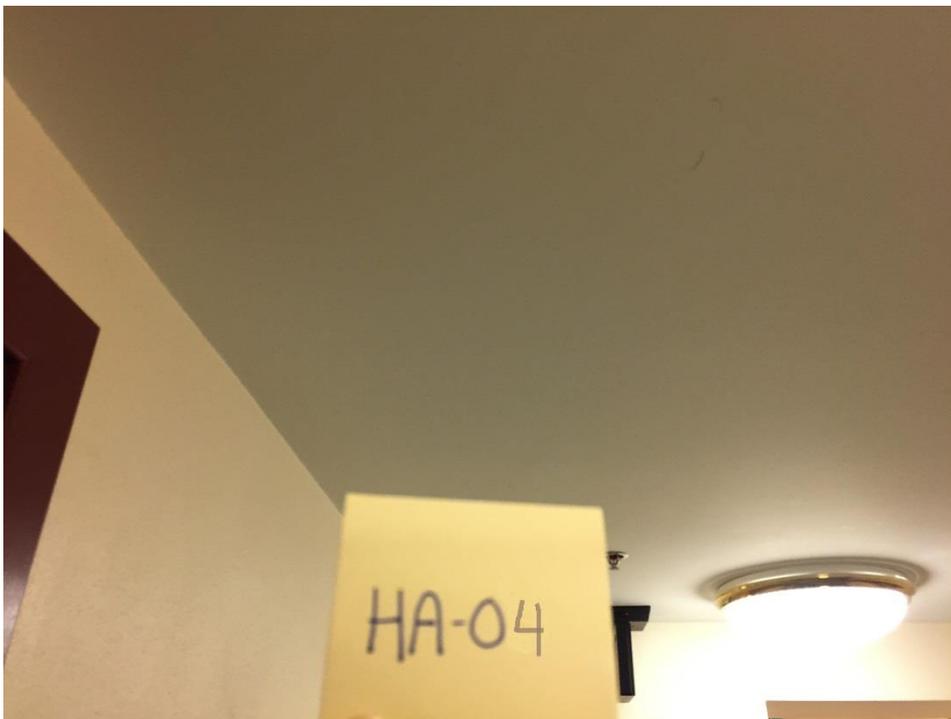


HA-02 Non-asbestos containing 4" black cove molding and associated mastic.

Eustace-Cole Hall
468 East Circle Drive
East Lansing, Michigan

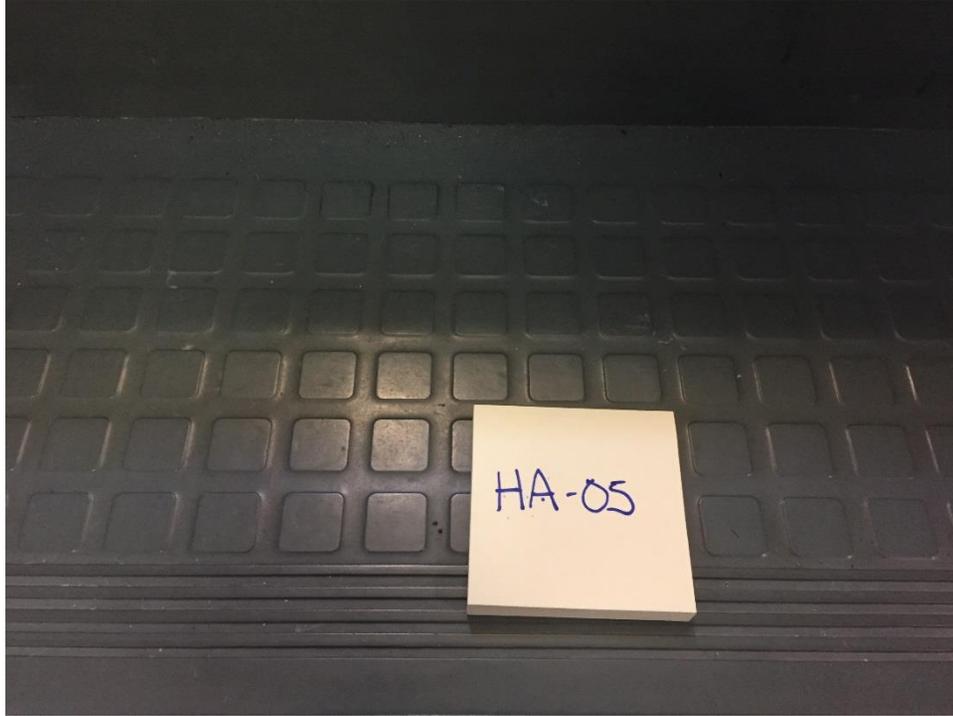


HA-03 Non-asbestos containing white textured wall plaster

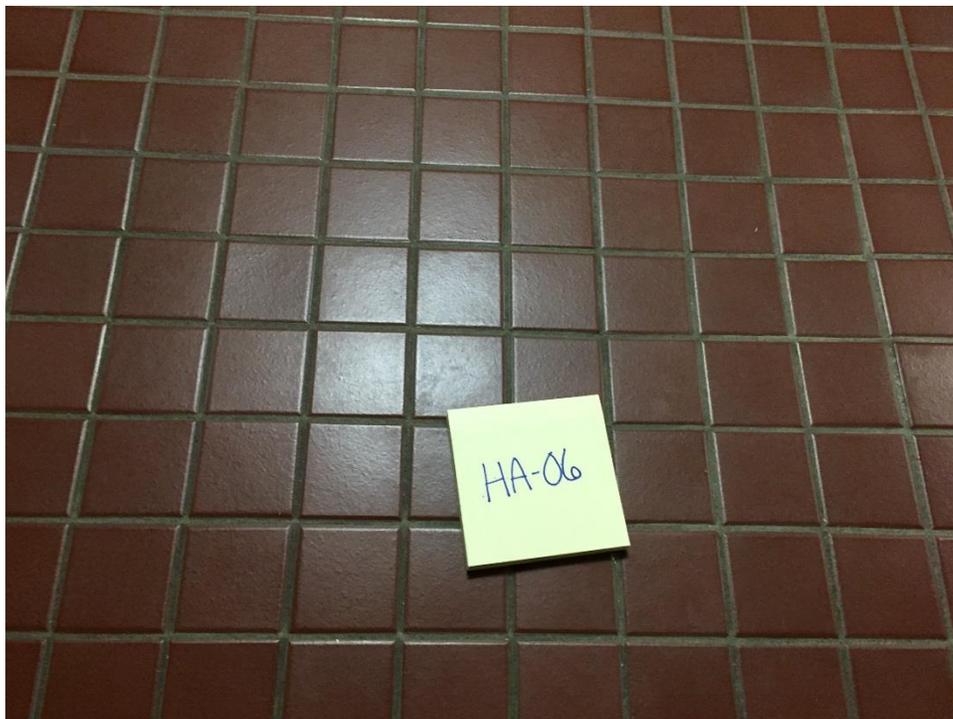


HA-04 Non-asbestos containing white smooth ceiling plaster

Eustace-Cole Hall
468 East Circle Drive
East Lansing, Michigan

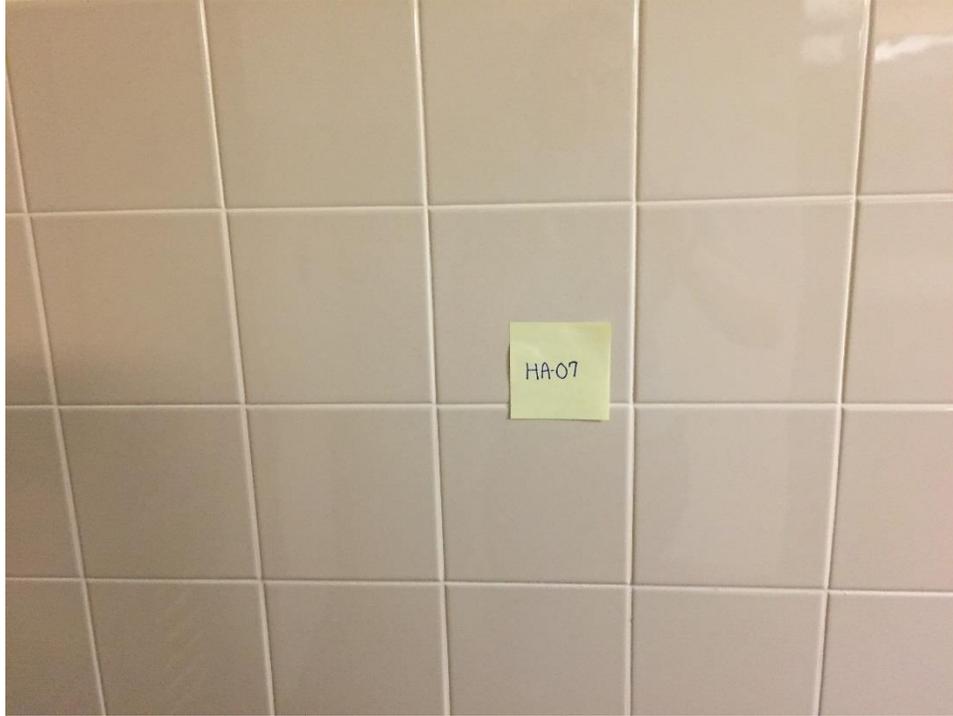


HA-05 Non-asbestos containing green square pattern linoleum stair tread flooring and associated mastic

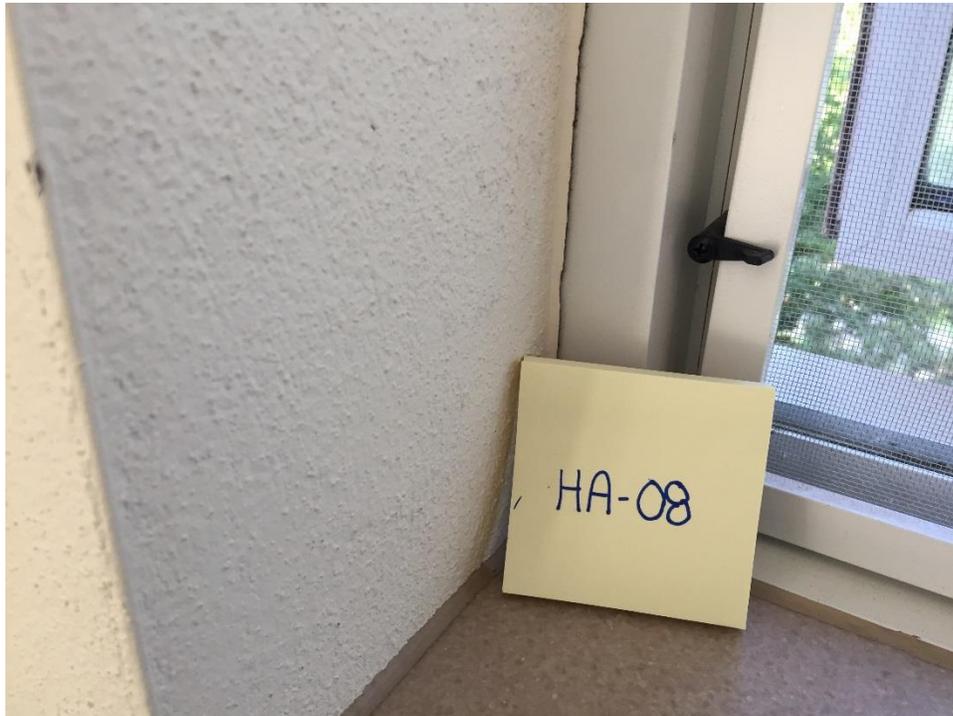


HA-06 Assumed asbestos-containing ceramic floor tile bedding compound and grout

Eustace-Cole Hall
468 East Circle Drive
East Lansing, Michigan



HA-07 Assumed asbestos-containing ceramic wall tile bedding compound and grout

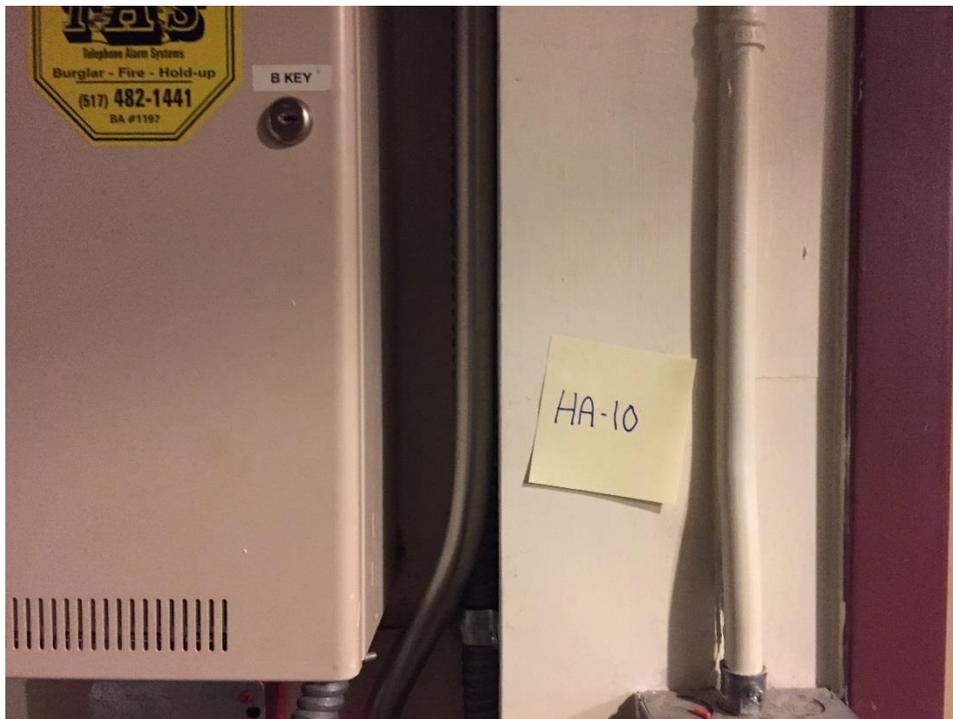


HA-08 Non-asbestos containing interior white window caulk

Eustace-Cole Hall
468 East Circle Drive
East Lansing, Michigan



HA-09 Non-asbestos containing white rough texture plaster

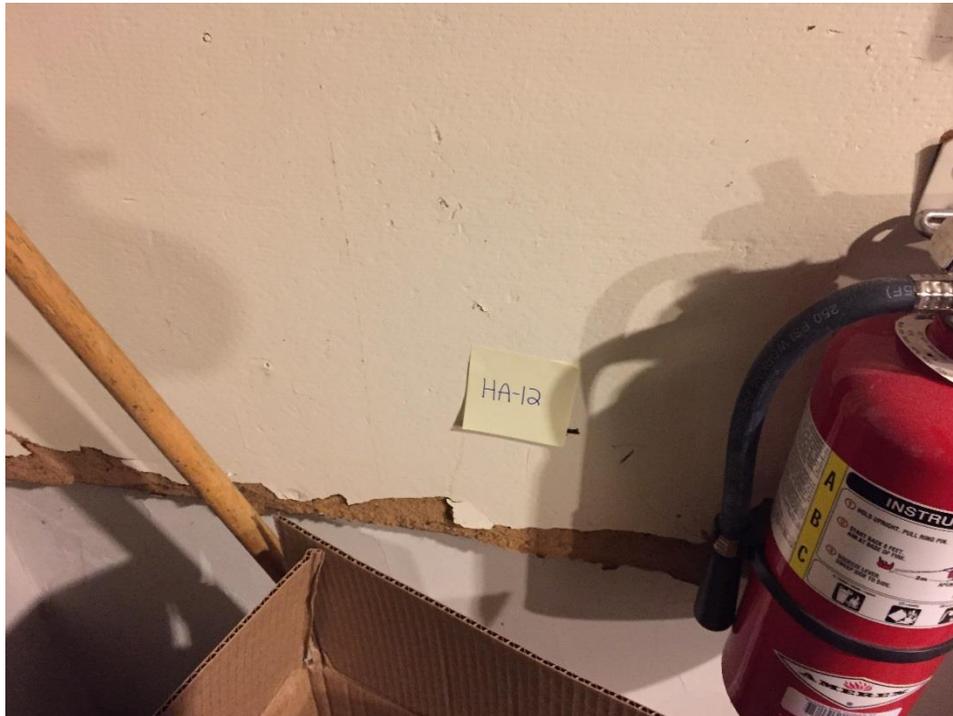


HA-10 Non-asbestos containing drywall

Eustace-Cole Hall
468 East Circle Drive
East Lansing, Michigan

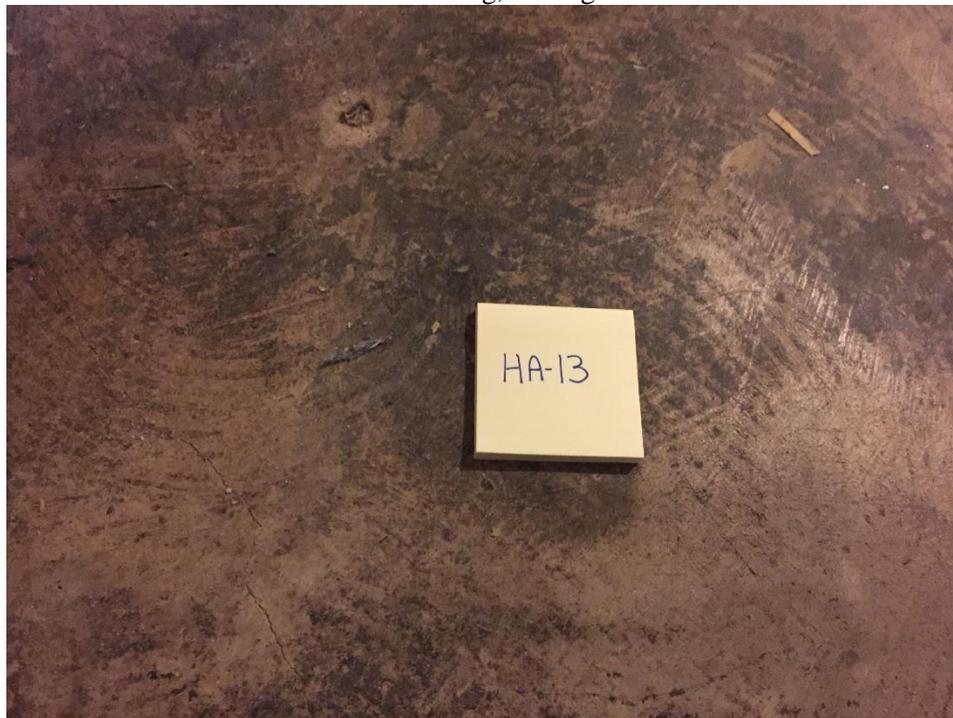


HA-11 Non-asbestos containing drywall joint compound

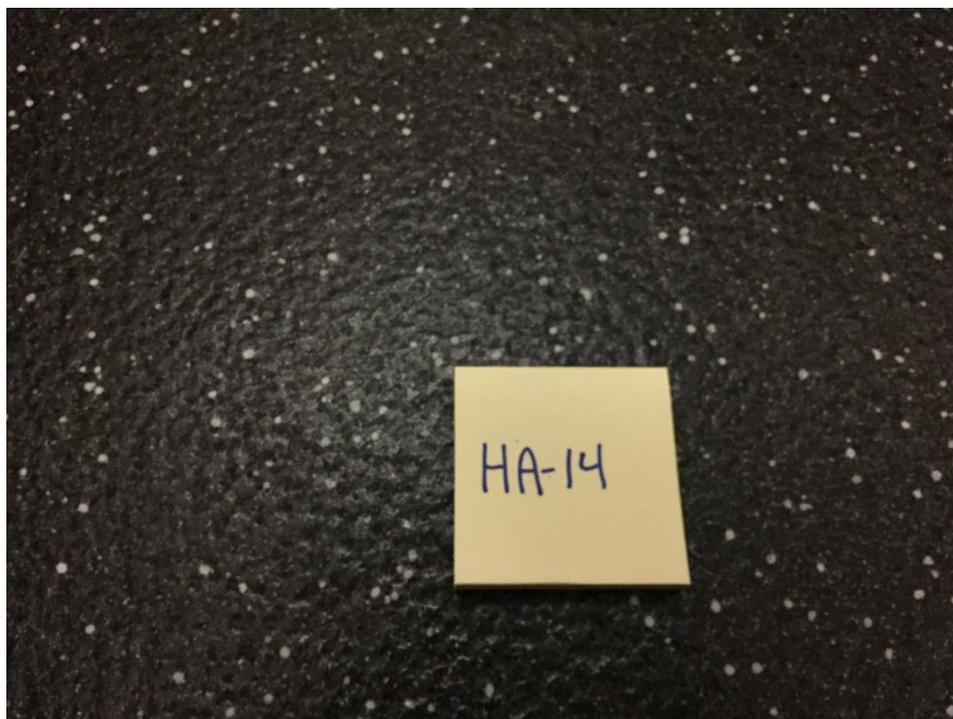


HA-12 Non-asbestos containing fiberboard wall panels and associated mastic

Eustace-Cole Hall
468 East Circle Drive
East Lansing, Michigan

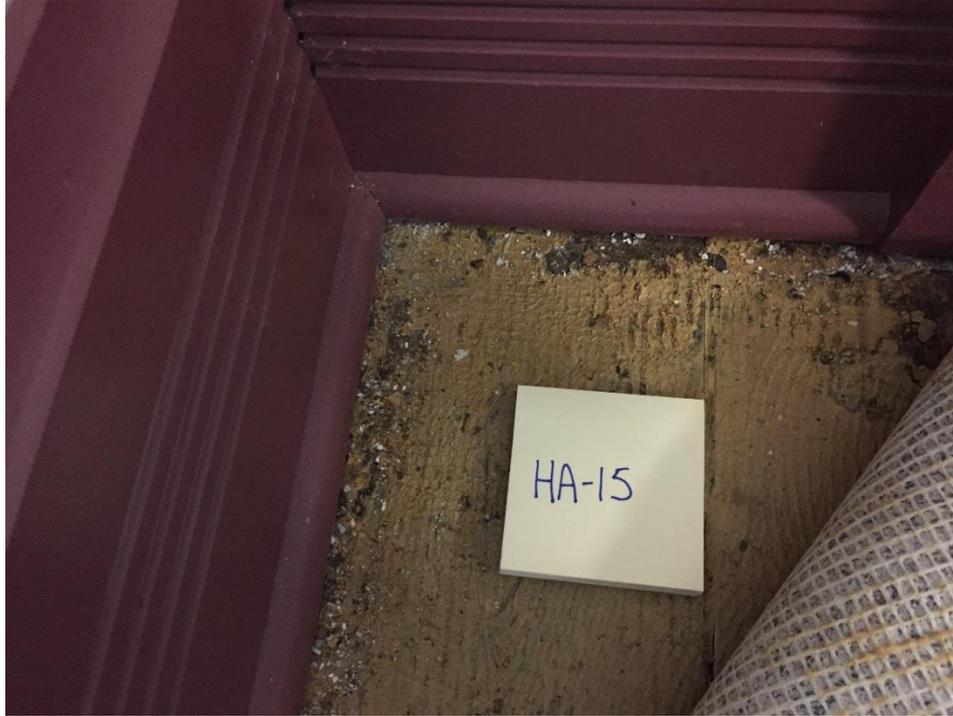


HA-13 Non-asbestos containing black mastic on floor



HA-14 Non-asbestos containing black linoleum and associated mastic

Eustace-Cole Hall
468 East Circle Drive
East Lansing, Michigan

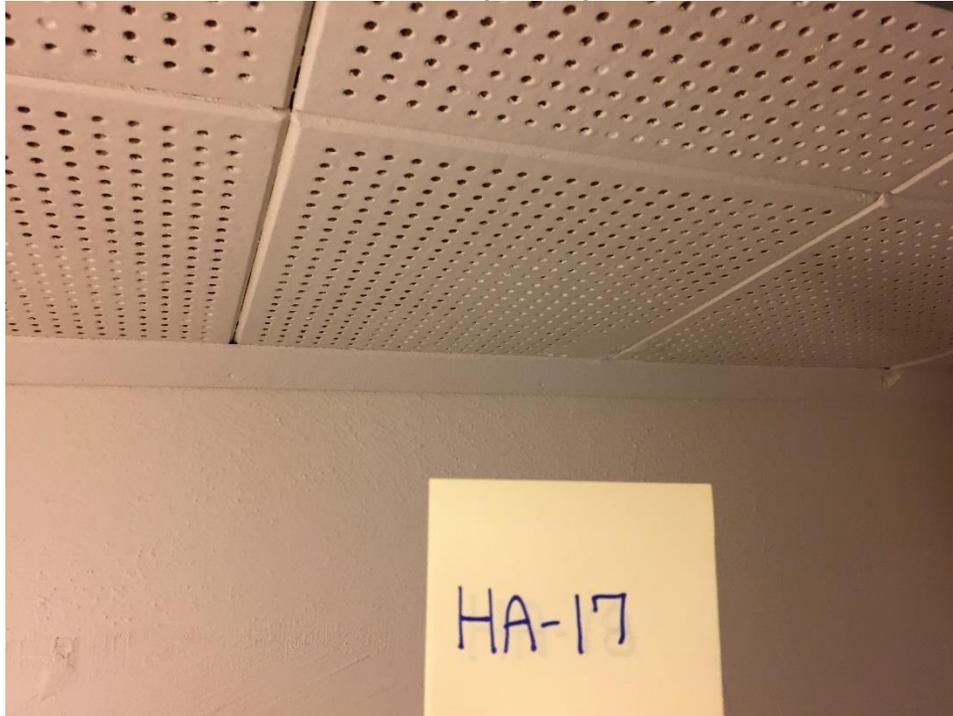


HA-15 Non-asbestos containing yellow carpet mastic

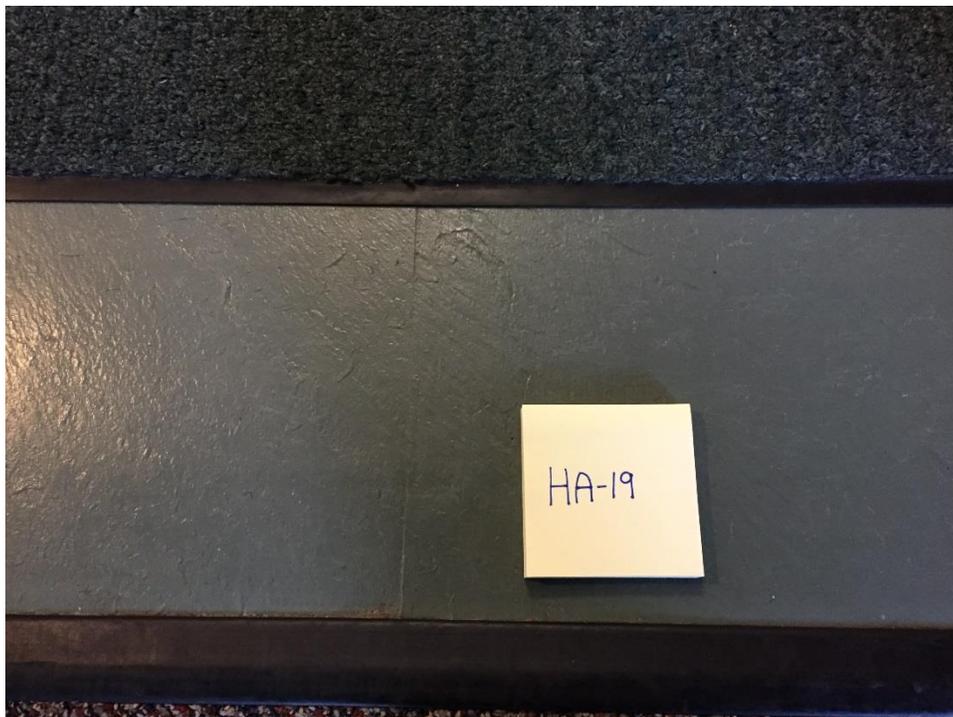


HA-16 Non-asbestos containing 4" maroon cove molding and associated mastic

Eustace-Cole Hall
468 East Circle Drive
East Lansing, Michigan

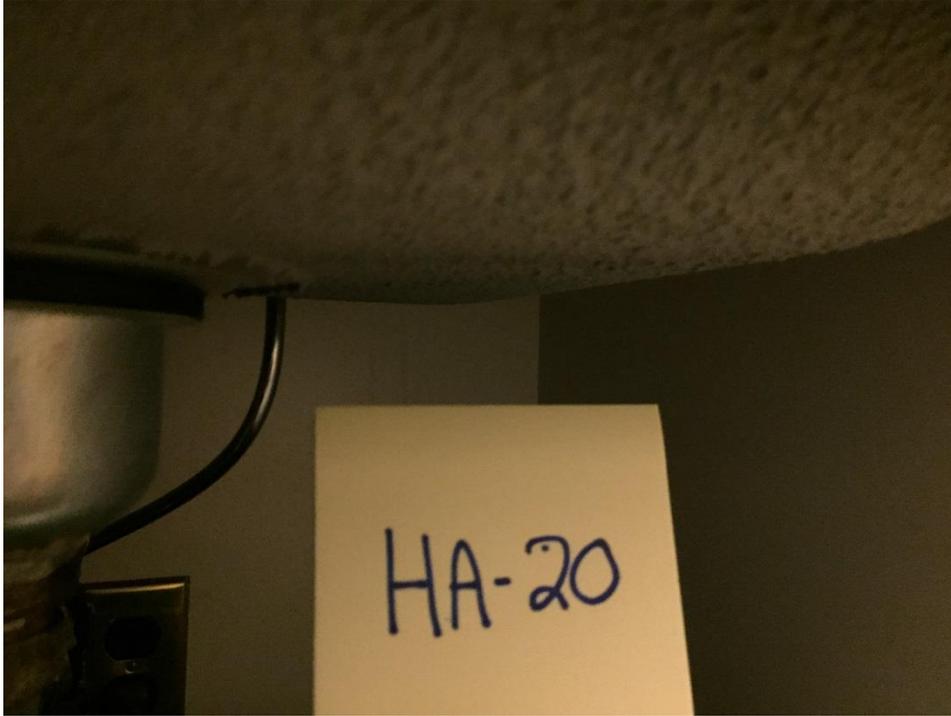


HA-17 Non-asbestos containing white 12" x 12" glued-on ceiling tile with uniform holes and HA-18 Assumed asbestos-containing gluepods



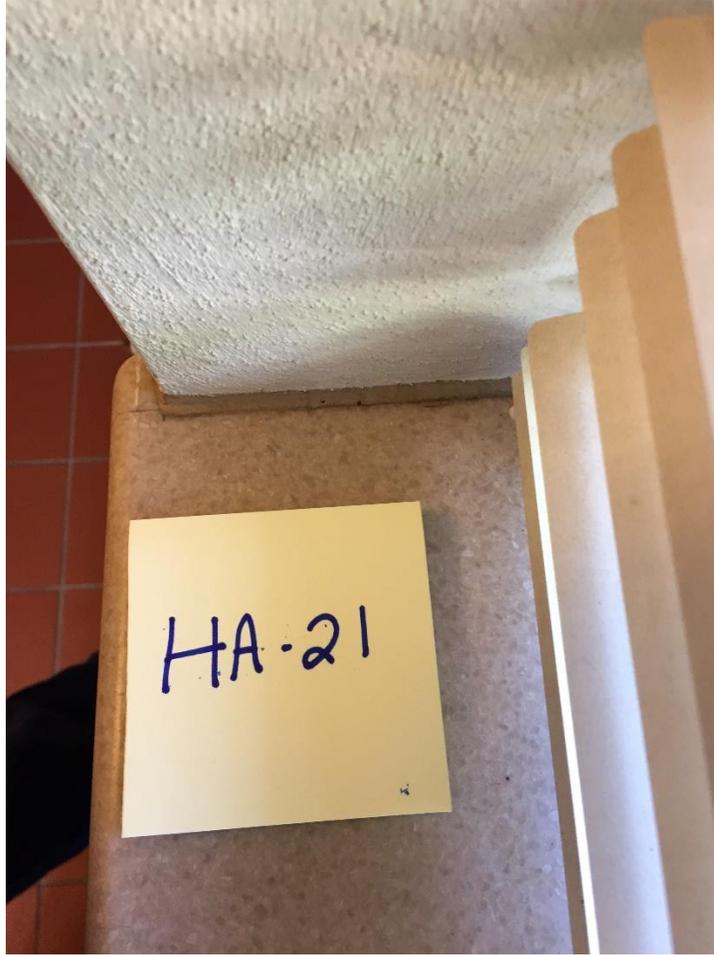
HA-19 Non-asbestos containing green linoleum with texture and associated mastic

Eustace-Cole Hall
468 East Circle Drive
East Lansing, Michigan



HA-20 Non-asbestos containing gray sink undercoating

Eustace-Cole Hall
468 East Circle Drive
East Lansing, Michigan



HA-21 Non-asbestos containing interior light brown window sill caulk

Eustace-Cole Hall
468 East Circle Drive
East Lansing, Michigan

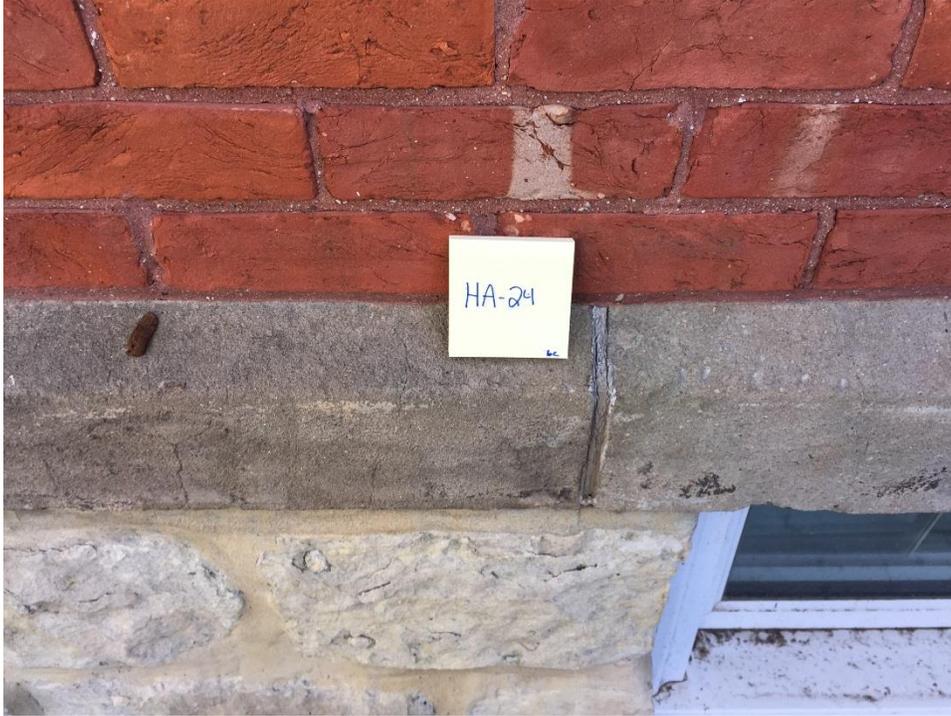


HA-22 Non-asbestos containing interior red brick caulk

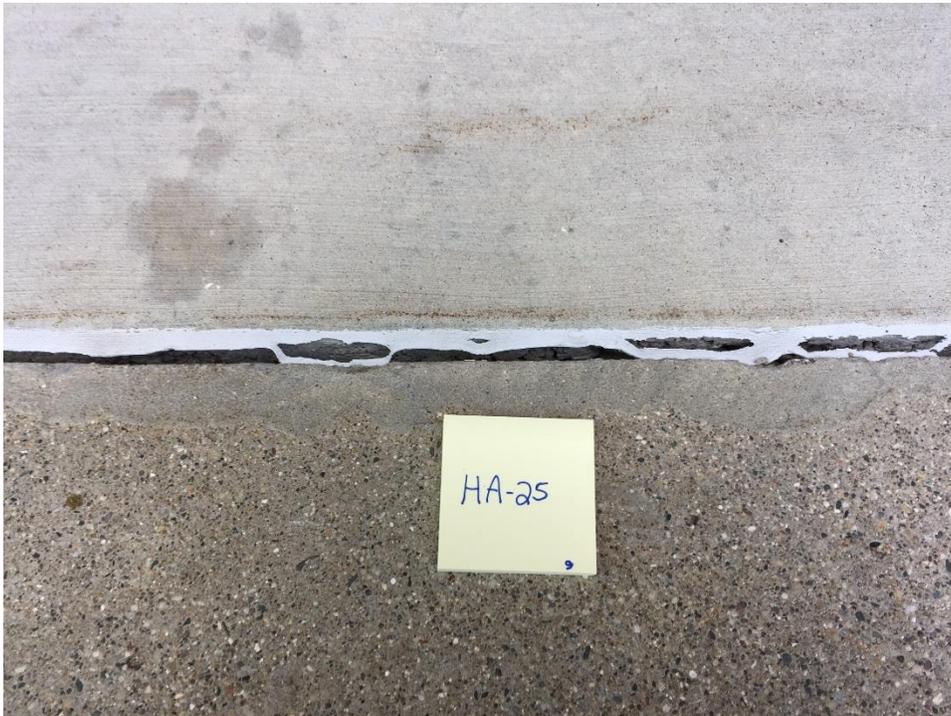


HA-23 Asbestos containing exterior black waterproofing

Eustace-Cole Hall
468 East Circle Drive
East Lansing, Michigan

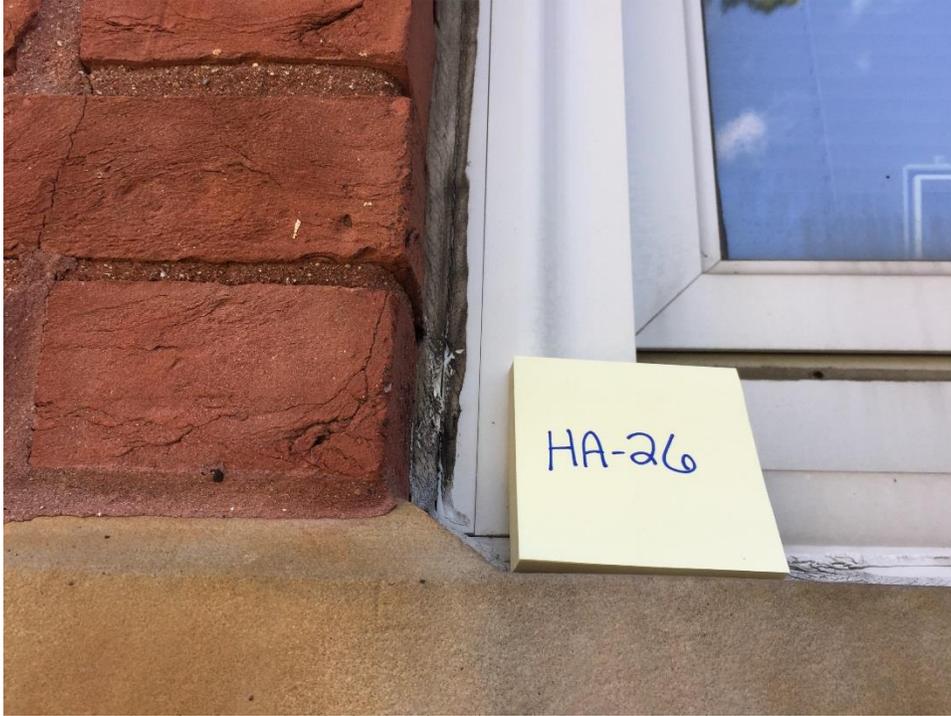


HA-24 Non-asbestos containing exterior brown building caulk



HA-25 Non-asbestos containing exterior gray front steps caulk

Eustace-Cole Hall
468 East Circle Drive
East Lansing, Michigan



HA-26 Non-asbestos containing exterior white window caulk



HA-27 Assumed asbestos-containing gray roof shingles and felts (tar paper)

Eustace-Cole Hall
468 East Circle Drive
East Lansing, Michigan



HA-28 Non-asbestos containing exterior white door caulk

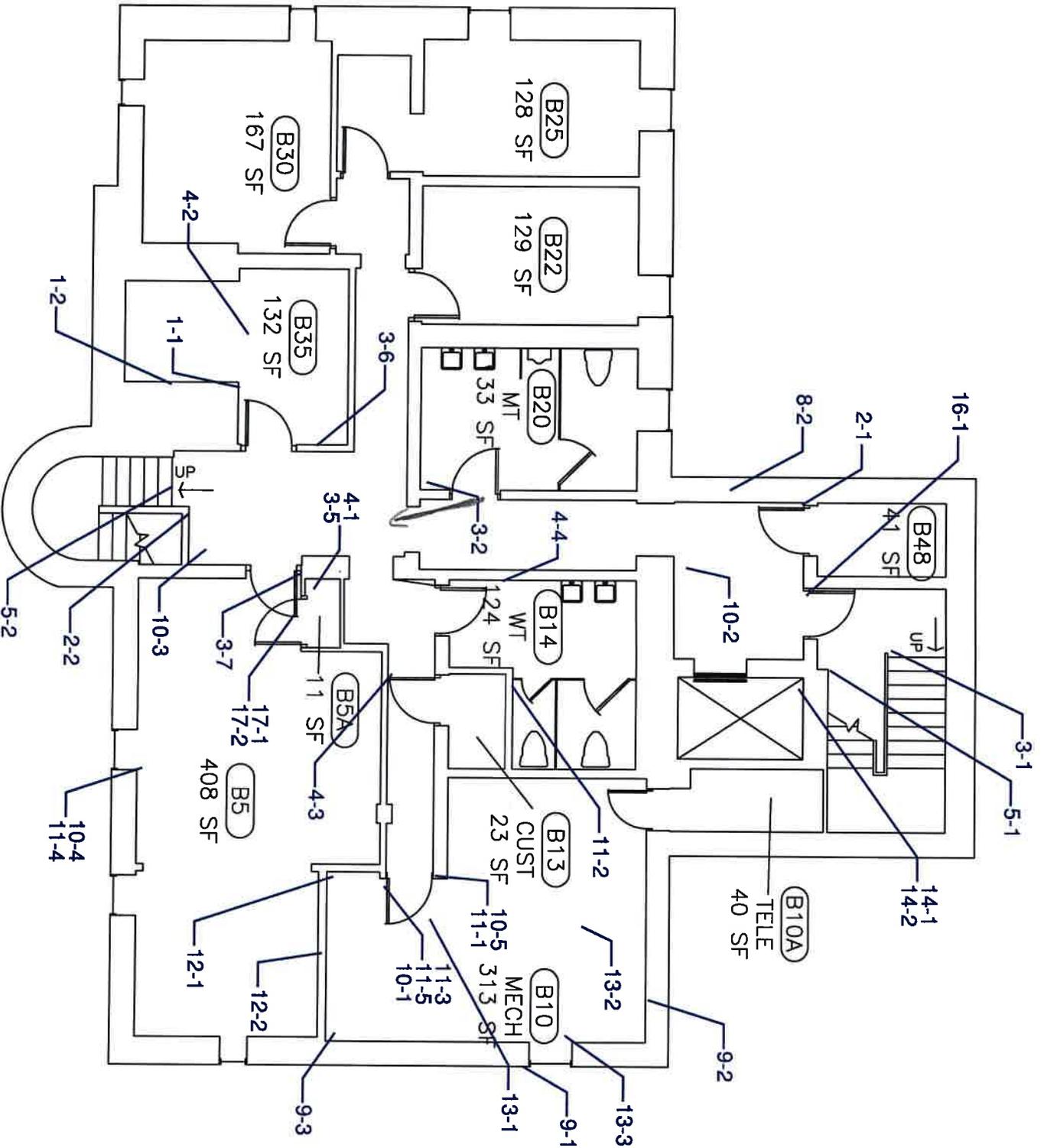
Appendix G
Sample Location Maps

Michigan State University
 Eustace-Cole Hall
 Basement

Sample Location



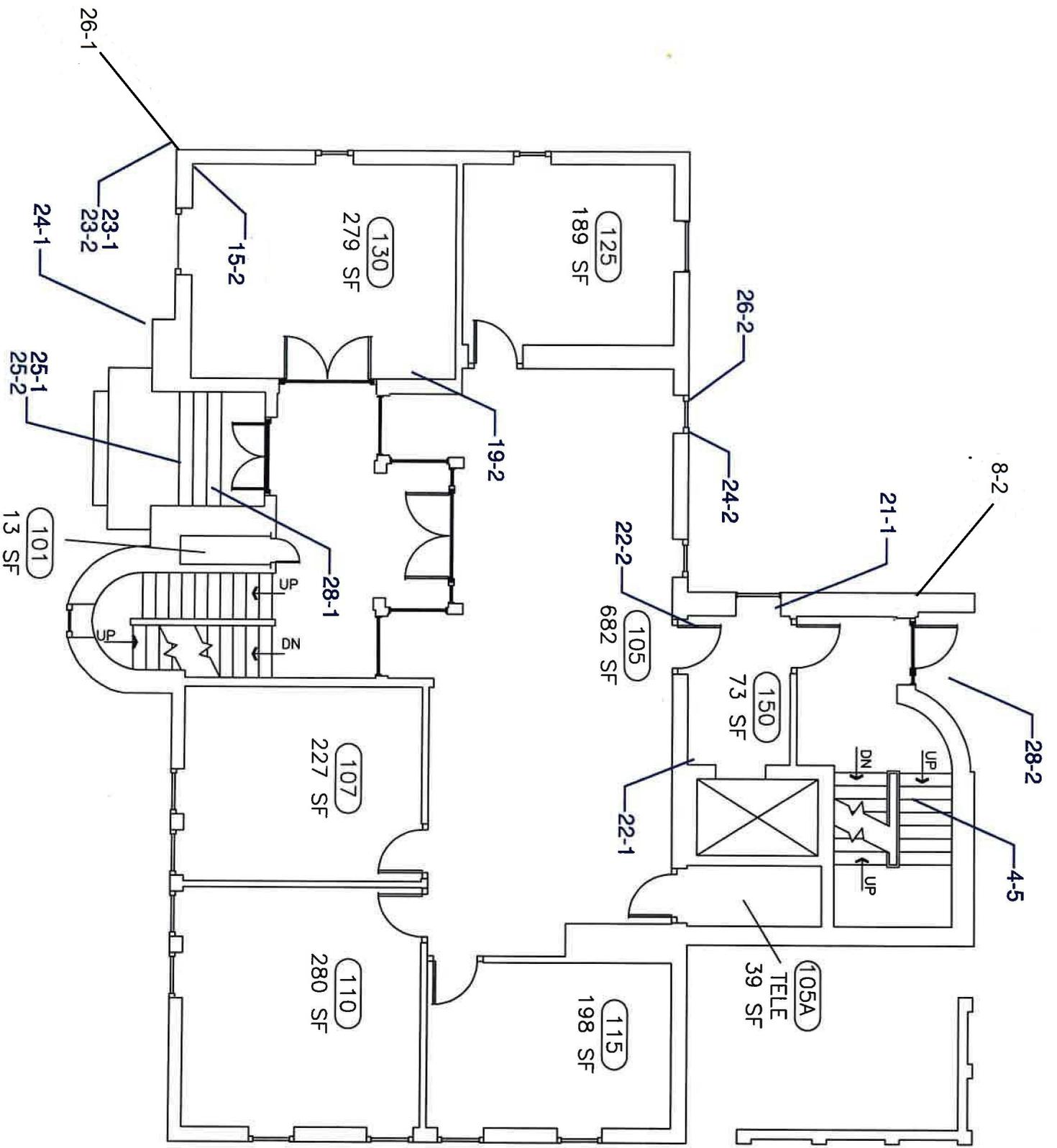
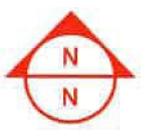
NOT TO SCALE



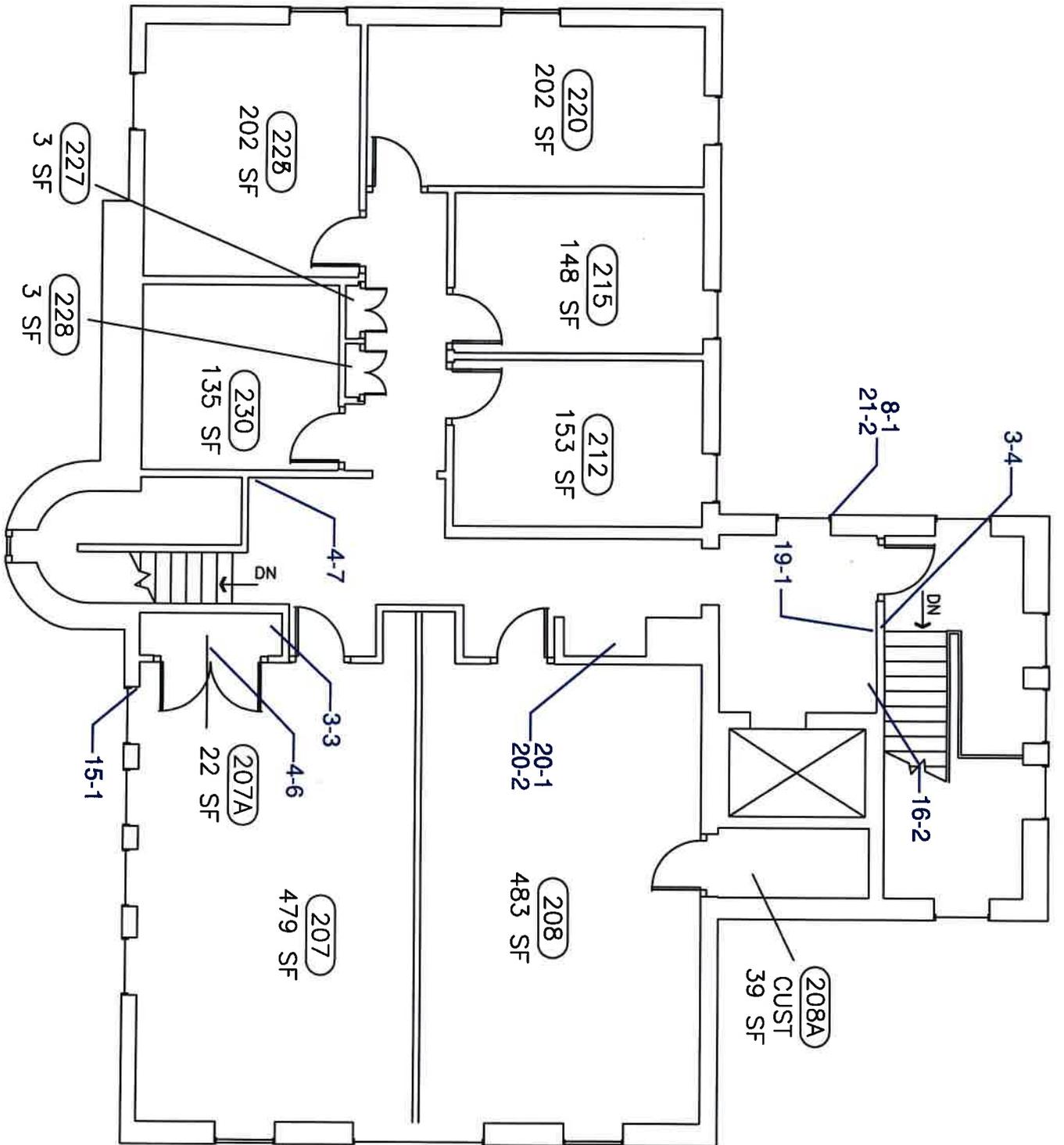
Michigan State University
 Eustace-Cole Hall
 First Floor

Sample Location
 1-1

NOT TO SCALE



Michigan State University
 Eustace-Cole Hall
 Second Floor



Sample Location
 1-1

NOT TO SCALE

