

# **Asbestos Inspection**

## **Hannah Administration Building Michigan State University**



**Prepared For:  
Michigan State University**

**January 2008  
Project No. G07874AD**



**Fishbeck, Thompson, Carr & Huber**  
engineers • scientists • architects • constructors

**ASBESTOS INSPECTION**  
**HANNAH ADMINISTRATION BUILDING**  
**MICHIGAN STATE UNIVERSITY**

**PREPARED FOR:**  
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**JANUARY 18, 2008**  
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## LIST OF ABBREVIATIONS/ACRONYMS

ACM	asbestos-containing material
CFR	Code of Federal Regulations
FTC&H	Fishbeck, Thompson, Carr & Huber, Inc.
MSDS	Material Safety Data Sheets
MSU	Michigan State University
s.f.	square feet
MSU	Michigan State University

## INTRODUCTION

FTC&H was retained by MSU to conduct an inspection of Hannah Administration Building for ACMs. Based on the information that was provided to FTC&H, the facility was constructed in 1968. The building has four floors, a basement, and a penthouse which comprise a total of 172,120 s.f.

The inspection was conducted according to the protocol described in 40 CFR 763 Subpart E with the following exceptions:

- Damage assessments were limited to significantly damaged accessible materials. No significantly damaged materials were observed.
- Sample locations for surfacing materials (e.g., plaster, drywall joint compound, etc.) were limited to discrete accessible locations where damage could be minimized.

The inspection did not include building materials on the exterior of the building, destructive sampling, inaccessible equipment, fiberglass, steel, concrete/mortar/block, ceramic tile, or inaccessible areas/materials.

The following materials were assumed to contain asbestos:

- Fire doors
- 4" cove base – tan
- 2" x 2" ceiling tile – white with light texture
- Seamless floor covering – Brown with light brown marbling

The following rooms were inaccessible at the time of the inspection:

- Room B-4
- Room B-4A
- Room B-2
- Room 70
- Room 63
- Room 63A
- Room 227A
- Room 363
- Room 333A
- Construction area in the northeast section of the 4<sup>th</sup> floor
- Room 463AB
- Room 501A

The inspection was conducted from November 19, 2007, through November 21, 2007, and on December 3, 2007, in accordance with the FTC&H proposal dated August 10, 2007.

## **CERTIFICATION**

The building inspection was lead by a State of Michigan accredited Asbestos Building Inspector, Mr. Mark A. Lutkenhoff (Accreditation No. A12430). All samples were sent under COC to an independent laboratory for analyses.

## **INSPECTION PROCEDURES AND SAMPLING METHODOLOGY**

The inspection was conducted in a room-by-room fashion. According to the standard, all materials were considered suspect ACMs for sampling purposes. For the purposes of this report, homogeneous area and homogeneous material are used interchangeably. Homogeneous material numbers were arbitrarily selected depending on when they were first identified. The number of samples collected from each homogeneous material was determined depending on the type of material, and at least one sample was collected from miscellaneous materials. Sample locations were randomly selected by the inspector at the time of the inspection. Sample locations are shown on Figures 1 through 7.

## **RESULTS**

A total of 37 unique homogeneous materials were identified during the inspection of Hannah Administration Building, resulting in 67 samples collected and 59 sample analyses (including layers). As a result, 4 homogeneous materials were assumed to contain asbestos, and 7 of the homogeneous materials tested were found to be asbestos containing (having a concentration greater than 1% by weight). Laboratory reports are provided in Appendix 2.

The results of the building inspection are provided in Tables 1 through 3, and Appendix 3. Table 1 identifies the homogeneous materials and their corresponding identification number. Table 2 identifies each distinct sample number and the sample locations. Summaries of the asbestos-containing and non asbestos-containing homogeneous materials identified in each room (functional space) and approximate quantities are presented in Appendix 3. Functional spaces which were identical in size and homogeneous materials were grouped together with the total quantity of each homogeneous material reported. Table 3 summarizes the assumed or confirmed ACMs with an approximate quantity.

Homogeneous materials 28, 29, and 30 were observed on the 4<sup>th</sup> floor in the office of the provost. These materials were installed just prior to the inspection. Therefore, with the approval of the MSU Office of

Environmental Safety and Health, FTC&H did not collect samples of these materials. These materials should be assumed ACM until sampling and testing is conducted or MSDS verify asbestos content.

## **CONCLUSIONS**

From November 19, 2007, through November 21, 2007, and on December 3, 2007, FTC&H conducted an inspection of Hannah Administration Building on the campus of MSU. A total of 37 unique homogeneous materials were identified during the inspection, resulting in 67 samples collected and 59 sample analyses (including layers). Four homogeneous materials were assumed to be asbestos and 7 homogeneous materials submitted for testing were found to contain asbestos concentrations greater than 1% by weight.

**Table 1 – Description of Homogeneous Materials**

Michigan State University - Hannah Administration Building

Inspection Date: November 19 through November 21, and December 3, 2007

HA Number	Material Description	Material Type	Units	ACM?
1	Spray-on fireproofing - dark grey	SM	s.f.	N
2	Expansion gasket - black	MM	s.f.	N
3	Fitting on fiberglass pipes	TSI	ea.	Y
4	Fire doors	MM	ea.	Assumed
5	Mag pipe insulation and mudded fittings	TSI	l.f.	Y
6	Expansion gasket - grey	MM	s.f.	N
7	2' x 2' Ceiling tile - white textured	MM	s.f.	N
8	9"x9" Vinyl tile - grey with white stripes	MM	s.f.	Y
9	4" Cove base - black	MM	l.f.	N
10	Plaster	SM	s.f.	N
11	Spray-on fireproofing - light grey	SM	s.f.	N
12	4" Cove base - brown	MM	l.f.	N
13	Drywall and joint compound	SM	s.f.	N
14	2' x 2' Ceiling tile - random size fissures	MM	s.f.	N
15	12" x 12" Vinyl tile - beige with brown streaks	MM	s.f.	N
16	12" x 12" Vinyl tile - dark grey with white streaks	MM	s.f.	Y
17	2' x 2' Ceiling tile - linear fissures and pinholes	MM	s.f.	N
18	4" Cove base - beige	MM	l.f.	N
19	9" x 9" Vinyl tile - beige with brown and white streaks	MM	s.f.	N
20	4" Cove base - light beige	MM	l.f.	N
21	9" x 9" Vinyl tile - grey with black and white streaks	MM	s.f.	Assumed
22	9" x 9" Vinyl tile - beige with grey and white streaks	MM	s.f.	N
23	4" Cove base - white	MM	l.f.	N
24	12" x 12" Vinyl tile - white with grey streaks	MM	s.f.	N
25	2' x 2' Ceiling tile - large fissures and pinholes	MM	s.f.	N
26	Seamless floor covering - blue, brown, black and grey speckles	MM	s.f.	N
27	4" Cove base - grey	MM	l.f.	N
28	4" Cove base - tan	MM	l.f.	Assumed
29	2' x 2' Ceiling tile - white with light textured	MM	s.f.	Assumed
30	Seamless floor covering - brown with light brown marbling	MM	s.f.	Assumed
31	4" Cove base - dark grey	MM	l.f.	N
32	2' x 2' Ceiling tile - light textured with molded edges	MM	s.f.	N
33	Stair tread - red with white streaks	MM	s.f.	Y
34	9" x 9" Vinyl tile - red with white streaks	MM	s.f.	Y
35	4" Cove base - red	MM	l.f.	N
36	2' x 4' Ceiling tile with random pinholes	MM	s.f.	N
37	Spray-on fireproofing - tan	SM	s.f.	Y

## Notes:

MM      Miscellaneous Material  
SM      Surfacing Material  
TSI      Thermal System Insulation  
s.f.      Square Feet  
l.f.      Linear Feet  
ea.      Each  
HA      homogenous area