

**ASBESTOS INSPECTION
WILSON HALL**

PREPARED FOR:

**MICHIGAN STATE UNIVERSITY
OFFICE OF ENVIRONMENTAL AND OCCUPATIONAL SAFETY
C124 RESEARCH COMPLEX – ENGINEERING
EAST LANSING, MI 48824-1326**

EKS JOB NUMBER 3915

**PREPARED BY
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Updated Online: 6/13/06
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Asbestos Survey Report

Mary Lindsey-Frary
Office of Environmental and Occupational Safety
C124 Research Complex – Engineering
Michigan State University
East Lansing, MI 48824-1326

Date Reported: 06/3/05
EKS Job No: 3915-Wilson

Location: Wilson Hall – Michigan State University
East Lansing, MI

1.0 EXECUTIVE SUMMARY

Mary Lindsey-Frary of Michigan State University's Office of Environmental and Occupational Safety retained EKS Services Incorporated to perform an asbestos survey of Wilson Hall (Building #322) on the campus of Michigan State University located in East Lansing, MI. The survey was conducted from May 16-25, 2005.

1.1 LIMITATIONS

There was no destructive sampling performed per Michigan State University. Exterior materials, i.e. roofing materials, were not looked at during the survey only interior materials.

1.2 MATERIAL QUANTITIES

The following table gives a total quantity of the asbestos material identified within the surveyed area. The quantity is an estimate only. Table 1 consists of the asbestos-containing materials, Table 2 contains the non-asbestos-containing materials and Table 3 contains the assumed asbestos containing materials.

**Table 1
Asbestos Containing Materials List**

Asbestos Material Identification	Total Quantity
0" - 2" Pipe Fitting	1049 ln. ft.
0" - 2" Pipe Insulation	4859 ln. ft.
10" - 12" Pipe Fitting	33 ln. ft.
10" - 12" Pipe Insulation	370 ln. ft.
12" - 14" Pipe Fitting	8 ln. ft.
12" - 14" Pipe Insulation	20 ln. ft.
12" x 12" Smooth Ceiling Tile with Glue Pods	28895 sq. ft.
16" - 18" Pipe Fitting	17 ln. ft.
16" - 18" Pipe Insulation	135 ln. ft.



**Table 1 (cont'd)
Total Quantity**

Asbestos Material Identification	Total Quantity
2" - 4" Pipe Insulation	8246 ln. ft.
2" - 4" Pipe Fitting	1539 ln. ft.
24" Pipe Fitting	8 ln. ft.
24" Pipe Insulation	44 ln. ft.
4" - 6" Pipe Fitting	516 ln. ft.
4" - 6" Pipe Insulation	4238 ln. ft.
4" Black Baseboard	2430 ln. ft.
6" - 8" Pipe Fitting	188 ln. ft.
8" - 10" Pipe Fitting	13 ln. ft.
9" x 9" Dark Brown Floor Tile with Mastic	109920 sq. ft.
9" x 9" Red Floor Tile with Mastic	65 sq. ft.
9" x 9" Tan Floor Tile with Mastic	1190 sq. ft.
Black Isolation Joint	492 ln. ft.
Door Caulk	980 ln. ft.
Spray-on	10400 sq. ft.
Tank Insulation	750 sq. ft.
Valve Insulation	27 ln. ft.
Window Caulk	24904 ln. ft.
Window Frame Caulk	2771 ln. ft.

**Table 2
Non-Asbestos Containing Materials List**

Material Identification	Total Quantity
12" x 12" Ceiling Tile with Glue Pods	40745 sq. ft.
12" x 12" Cream Floor Tile with Blue Specks with Mastic	870 sq. ft.
12" x 12" Dark Gray Floor Tile with Mastic	2670 sq. ft.
12" x 12" Metal Ceiling Tile with Paper Backing	3700 sq. ft.
12" x 12" Tan Floor Tile with Brown Specks with Mastic	14480 sq. ft.
12" x 12" Tan Floor Tile with Mastic	940 sq. ft.
2' x 2' Ceiling Tile	11920 sq. ft.
4" Brown Baseboard	39648 ln. ft.
6" - 8" Pipe Insulation	1740 ln. ft.
8" - 10" Pipe Insulation	192 ln. ft.
Door Frame Caulk	200 ln. ft.
Drywall	2560 sq. ft.
Drywall Ceiling	17450 sq. ft.
Grey Insulation on Air Handling Unit	3470 sq. ft.
Plaster Ceiling	164395 sq. ft.
Plaster Wall	421545 sq. ft.
Shower Caulk	4160 ln. ft.
Sink Caulk	726 ln. ft.
Yellow Carpet Glue	76668 sq. ft.

**Table 3
Assumed Asbestos Containing Material**

Material Identification	Total Quantity
Fire Door	344 doors
Green Chalkboards	17 each

2.0 ASBESTOS BULK SAMPLE ANALYSIS

An accredited laboratory that participates in a Quality Assurance Program for asbestos fiber identification analyzed the bulk samples. Analysis of the bulk samples were performed in accordance with the EPA and OSHA protocol for asbestos using polarized light microscopy (PLM) and dispersion staining by an NVLAP accredited laboratory. Carolina Environmental, Inc. analyzed the samples and the results can be found in Appendix A. During analysis the laboratory stopped at first positive per homogeneous material.

2.1 SAMPLING PROCEDURES

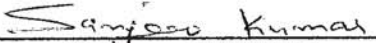
Field inspection alone is not conclusive to identify asbestos-containing materials. Therefore, bulk samples of suspected asbestos-containing materials were obtained using EPA/OSHA protocols by State accredited inspectors and analyzed to determine if asbestos fibers were present, and if found, the type(s) and percentage(s) of asbestos were reported.

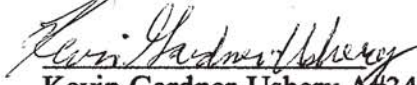
Wetting – An area approximately the size of a half dollar was thoroughly wetted using a plastic squeeze bottle containing water and a wetting agent, to reduce fiber release during sampling.

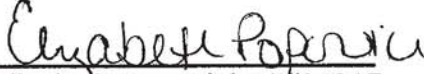
Sampling – A carpenter’s knife or boring tool was used to cut the outer protective covering if needed to expose the suspected asbestos-containing material underneath. The boring tool or knife was then used to remove approximately 25 cubic centimeters of the insulation or debris. The insulation or debris was then placed in a resoluble plastic bag and secured. EKS followed EPA and OSHA protocols for determining sampling locations and total numbers of samples taken.

3.0 CLOSING

Attached are the laboratory results of the samples collected. Please feel free contact me at (313) 963-1433, if you have any questions. It has been a pleasure assisting you.


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