# ASBESTOS INSPECTION LAUNDRY BUILDING

#### 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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# 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: 07/26/05 EKS Job No: 3915-Laundry

Location:

Union Building - 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 Laundry Building (Building #68) on the campus of Michigan State University located in East Lansing, MI. The survey was conducted from July 15<sup>th</sup>-20<sup>th</sup>, 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 asbestoscontaining materials, Table 2 contains the non-asbestos-containing materials and Table 3 contains the assumed asbestos containing materials.

> Table 1 **Total Quantity**

Asbestos Material Identification	Total Quantity
0" – 2" Pipe Fitting	514 ln. ft.
10" – 12" Pipe Fitting	28 ln. ft.
2" – 4" Pipe Fitting	444 ln. ft.
4" – 6" Pipe Fitting	189 ln. ft.
8" – 10" Pipe Fitting	5 ln. ft.
9" x 9" Tan Floor Tile with Mastic (Tile only)	645 sq. ft.
Black Sink Undercoating	20 sq. ft.

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Table 1 (cont'd)
Ashestos Containing Materials List

Asbestos Material Identification	Total Quantity
Cream Tank Insulation	150 sq. ft.
Door Frame Caulk	210 ln. ft.
Elevator Door Caulk	30 ln. ft.
Shower Floor Caulk	25 ln. ft.
Wall Caulk	3,530 ln. ft.
Window Caulk	630 ln. ft.
Window Frame Caulk	775 ln. ft.

Table 2
Non-Asbestos Containing Materials List

Material Identification	Total Quantity
0" – 2" Pipe Insulation	1,902 ln. ft.
10" – 12" Pipe Insulation	180 ln. ft.
12" x 12" Cream Floor Tile with Mastic	180 sq. ft.
2' x 2' Ceiling Tile	3,190 sq. ft.
2' x 2' Smooth Ceiling Tile	840 sq. ft.
2' x 2' Spongy Ceiling Tile	250 sq. ft.
2' x 4' Ceiling Tile	50 sq. ft.
2" – 4" Pipe Insulation	1,939 ln. ft.
4" – 6" Pipe Insulation	1,411 ln. ft.
4" Black Baseboard	410 ln. ft.
4" Brown Baseboard	330 ln. ft.
4" Cream Baseboard	355 ln. ft.
4" Grey Baseboard	40 ln. ft.
4" Tan Baseboard	155 ln. ft.
6" – 8" Pipe Fitting	18 ln. ft.
6" – 8" Pipe Insulation	150 ln. ft.
8" – 10" Pipe Insulation	79 ln. ft.
Cream HVAC Insulation	2,000 sq. ft.
Drywall	17, 270 sq. ft.
Grey Sink Undercoating	10 sq. ft.
Plaster Ceiling	1,285 sq. ft.
White Isolation Joint	195 ln. ft.
White Sink Caulk	25 ln. ft.
Yellow Carpet Glue	3,070 sq. ft.

Table 3
Assumed Asbestos Containing Material

Material Identification	Total Quantity
Fire Doors	30 doors

# 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 <u>cut the outer protective</u> 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.

Sanjeev Kumar A# 33176
Asbestos Building Inspector

EKS Services Incorporated