ASBESTOS INSPECTION WELLS HALL

PREPARED FOR:

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

EKS JOB NUMBER 3827

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: 04/12/05 EKS Job No.: 3827

Location: Wells 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 Wells Hall (Building #78) on the campus of Michigan State University located in East Lansing, MI. The survey was conducted from March 14-22, 2005.

1.1 **LIMITATIONS**

EKS did not have key access to the following rooms: A-1, A-129A, A-227A, A-304A, A-432A, A-534A, A-635A, A-734A, A-802, B-4, B-4A, B-102A, B-103, B-104A, B-105, B-106A, B-106B, B-107, B-108A, B-111, C-116, C-218, C-318, D-322A and D-332A. EKS also did not have access to a number of rooms that we were able to make assumptions about, based on the pattern of rooms near it. A-126 is similar to A-124, A-234 is similar to A-200, A-212B is similar to A-212, A-226 is similar to A-200, A-331 is similar to A-330, A-339 is similar to A-338, A-341 is similar to A-338, and A-406 is similar to A-408. EKS representatives let Mary Lindsey-Frary know about the inaccessible rooms, she told them to try to quantify the best they can from outside and if they could not make any assumptions to mark it as inaccessible.

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 ASBESTOS CONTAINING MATERIAL & LOCATION

The following table gives a total quantity of the asbestos material identified within the surveyed area. The quantity is an estimate only.

Table 1
Total Quantity

Asbestos Material Identification	Total Quantity
Mud Fittings Associated with 0"-2" Fiberglass Pipe Insulation	448 fittings
Mud Fittings Associated with 2"-4" Fiberglass Pipe Insulation	189 fittings
Mud Fittings Associated with 4"-6" Fiberglass Pipe Insulation	130 fittings
Mud Fittings Associated with 6"-8" Fiberglass Pipe Insulation	59 fittings
Mud Fittings Associated with 8"-10" Fiberglass Pipe Insulation	155 fittings
Mud Fittings Associated with 10"-12" Fiberglass Pipe Insulation	246 fittings
6"-8" Pipe Insulation and Mud Fittings	164 ln. ft.
8"-10" Pipe Insulation and Mud Fittings	34 ln. ft.
Glue Pods Associated with 12"x12" Sponge Ceiling Tile	156,895 sq. ft. tile
9"x9" Beige Floor Tile and Associated Mastic	450 sq. ft.
9"x9" Grey Floor Tile	72,919 sq. ft.
9"x9" Tan Floor Tile and Associated Mastic	11,145 sq. ft.
Black Chalkboard and Possible Glue Pods*	202 pieces
Brown Chalkboard and Possible Glue Pods*	256 pieces
Green Chalkboard and Possible Glue Pods*	61 pieces
Fire Door	95 pieces
Roof Drain with Mud Fittings	2 sq. ft.
Spray-On Insulation	9,990 sq. ft.
Transite Panels	470 sq. ft.
White Sink Undercoating	20 sq. ft.
Window Caulk	18,520 ln. ft.
Window Frame Caulk	4,450 ln. ft.

^{*} Material is assumed to contain asbestos. It could not be tested without destructive sampling

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 <u>SAMPLING PROCEDURES</u>

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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