

**ASBESTOS INSPECTION  
MCDONEL HALL**

**PREPARED FOR:**

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

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**EKS JOB NUMBER 3915**  
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**PREPARED BY  
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## TABLE OF CONTENTS

1.0	Executive Summary	3
1.1	Limitations	3
1.2	Material Quantities	3
2.0	Asbestos Bulk Sample Analysis	5
2.1	Sampling Procedures	5
3.0	Closing	5

**APPENDIX A – Bulk Sample Analysis Results**

**APPENDIX B – Analytical Laboratory Results & Chain of Custody**

**APPENDIX C – Maps with Sample Locations**

**APPENDIX D – Materials Sorted by Room**

**APPENDIX E – Sorted by Materials with Totals**

**APPENDIX F – Asbestos Containing Materials Sorted by Room**

**APPENDIX G – Asbestos Containing Materials Sorted by Material with Totals**

**APPENDIX H – Non-Asbestos Containing Materials Sorted by Material with Totals**

**APPENDIX I – Assumed Asbestos Containing Materials Sorted by Material with Totals**

**APPENDIX J – Photos of Damaged Materials**

**APPENDIX K – List of Damaged Materials**



Asbestos Survey Report

Mary Lindsey-Frary  
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C124 Research Complex – Engineering  
Michigan State University  
East Lansing, MI 48824-1326

Date Reported: 07/08/05  
EKS Job No: 3915-McDonel

Location: McDonel 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 June 13 - July 1, 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. Chandes McCoy the manager of McDonel Hall spoke with Sue Petrisin on June 28, 2005 about getting a key to access B-18 of McDonel Hall. Sue informed EKS that she could not arrange for the key to this room and it was decided it was ok if EKS did not inspect this room.

**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	1314 ln. ft.
10" - 12" Pipe Fitting	36 ln. ft.
12" x 12" Tan with Brown Specks Floor Tile with Mastic	1590 sq. ft.
12" x 12" Cream Floor Tile with Mastic	625 sq. ft.
2" – 4" Pipe Fitting	1181 ln. ft.
2" – 4" Pipe Insulation	6230 sq. ft.

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

<b>Asbestos Material Identification</b>	<b>Total Quantity</b>
24" Pipe Fitting	14 ln. ft.
24" Pipe Insulation	137 ln. ft.
4" – 6" Pipe Fitting	282 ln. ft.
6" – 8" Pipe Fitting	127 ln. ft.
8" – 10" Pipe Fitting	36 ln. ft.
9" x 9" Cream Floor Tile with Mastic	290 sq. ft.
9" x 9" Dark Brown Floor Tile with Mastic	160275 sq. ft.
9" x 9" Grey Floor Tile with Mastic	5250 sq. ft.
Black Lab Tables	1270 sq. ft.
Door Frame Caulk	370 ln. ft.
Grey Tank Insulation	100 sq. ft.
Sink Caulk	30 ln. ft.
Spray-on	11925 sq. ft.
Transite Panels	200 sq. ft.
White Sink Undercoating	40 sq. ft.
Window Caulk	13270 ln. ft.
Window Frame Caulk	450 ln. ft.

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

<b>Material Identification</b>	<b>Total Quantity</b>
0" – 2" Pipe Insulation	6076 ln. ft.
10" – 12" Pipe Insulation	395 ln. ft.
12" x 12" Black Floor Tile with Mastic	280 sq. ft.
12" x 12" Ceiling Tile	70335 sq. ft.
12" x 12" Dark Grey Floor Tile with Mastic	3240 sq. ft.
12" x 12" Metal Ceiling Tile with Paper Backing	9350 sq. ft.
2' x 2' Ceiling Tile	14670 sq. ft.
4" – 6" Pipe Insulation	3051 ln. ft.
4" Black Baseboard	1655 ln. ft.
4" Brown Baseboard	51253 ln. ft.
6" – 8" Pipe Insulation	1201 ln. ft.
8" – 10" Pipe Insulation	300 ln. ft.
Black Isolation Joint	346 sq. ft.
Drywall	1750 sq. ft.
Grey Isolation Joint	65 sq. ft.
Plaster Ceiling	205235 sq. ft.
Plaster Wall	526755 sq. ft.
Valve Joint	125 sq. ft.
Yellow Carpet Glue	87455 sq. ft.

**Table 3  
Assumed Asbestos Containing Material**

Material Identification	Total Quantity
Fire Door	115 doors
Fire Door Frame	4 frames

**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**

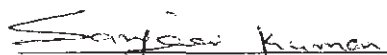
Field inspection alone is not conclusive to identify asbestos-containing materials. Therefore, bulk samples of suspected asbestos-containing materials were obtained using EPA/OSHA protocols by State accredited inspectors and analyzed to determine if asbestos fibers were present, and if found, the type(s)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