

## **Appendix F**

### **University of Minnesota ACM Documentation**

# UNIVERSITY OF MINNESOTA

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*Twin Cities Campus*

*Facilities Management  
Hazardous Material Program*

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Minneapolis, MN 55455  
612-625-7547  
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June 11, 2009

REPORT: Asbestos Report for Bulk Samples

TO: Steven Lott  
Project Manager  
U More Park  
1605-160<sup>th</sup> Street West  
Rosemount, MN 55068

FROM: Dave Klaustermeier  
Facilities Management Hazardous Materials Program (FM-HMP)  
1521 4<sup>th</sup> Street SE  
Minneapolis, MN 55455

SUBJECT: Various sample results from bulk samples collected on 6/4/09 and 6/5/09.

**Scope of Work:** Five bulk samples of suspect asbestos building materials were collected at U More Park in locations where the Phase 2 Investigation work is occurring. The purpose of the sampling was to identify asbestos-containing materials (ACM) as defined by the Environmental Protection Agency (EPA). Any material that is greater than 1% asbestos is considered to be ACM. Bulk samples were collected by Minnesota Department of Health Licensed Asbestos Inspector Dave Klaustermeier, License #AI2256.

**Project Description Asbestos:** Five samples of suspect ACM samples were collected on-site and analyzed via polarized light microscopy (PLM) for asbestos content, using EPA Method #600/R-93/116. Samples were analyzed by Facilities Management Hazardous Materials Bulk Asbestos Laboratory, AIHA Laboratory #101107. EPA and Minnesota Department of Health (MDH) Asbestos Rules regulate friable ACM (material that can be reduced to powder or dust under hand pressure) and ACM that may become friable under demolition or renovation conditions.

The following nonfriable materials tested positive as ACM:

- **Asbestos cement board (transite)**

The following nonfriable materials tested none detected as ACM:

- Shingle debris on the ground

All ACM removal must be performed by a Minnesota licensed asbestos abatement contractor prior to the demolition of the building. All asbestos removal shall be performed within the specified procedures as outlined in the University of Minnesota Technical Specification for Asbestos Abatement.

Air monitoring is required for many asbestos-related projects. The Asbestos Group of the Facilities Management Hazardous Materials Program (FMHMP) is available to provide this service. If additional

suspect materials are found during the Phase 2 Investigation, work shall stop until the material can be bulk sampled and tested for asbestos content.

If there is any further information required, or other questions arise regarding this request, please contact Dave Klaustermeier at (612) 624-6027.

Written By:

*Dave Klaustermeier*

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Dave Klaustermeier  
Facilities Management Hazardous Materials Program  
Minnesota Department of Health Inspector #: AI 2256

Cc: Kathy Boudreau, Director of Contracts and Leasing  
Janet Dagleish, DEHS  
Sean Gabor, FMHMP  
Kristen Betz, Barr Engineering Company

# EXPLANATION OF TABLES IN APPENDIX I

Flr	Location	Samp#	Code	Description	N.D.	Pos	Quan	Unit	Fri	Cond	Rate	Amos	Chrys	Other	AHERA
B	Room 02	1	T	<4 white fibrous PI		Pos	24	LF	F	N	2	10%	15%		5

Location = The room or functional space in the building where a given material exists.

Samp# = The number assigned to a given homogeneous material for sampling and tracking purposes.

Code = Each suspect material is listed as one of the following:

- T = thermal system insulation
- S= surfacing materials
- M= miscellaneous materials

Description = A brief verbal description of the material in question. Pipe insulation is denoted as PI. Pipe fitting insulation, such as pipe elbow, valve or fitting insulation is denoted as PFI. NSMP = no suspect materials present.

N.D. = No asbestos fibers or <1% asbestos detected by PLM analysis or point counting.

Quan = The amount of a given identified material within the room or functional space.

Units = The units by which the suspect material was quantified as indicated below:

- LF = linear feet
- SF = square feet
- EA = each

Fri = The condition of the identified material is described in terms of friability or non friability:

- F = friable material
- N = nonfriable material

Cond = Actual condition found during the time of the building survey as indicated by the following:

- N = No damage
- L = <10% (Little) damage
- M = 10-25% (Moderate) damage
- H = >25% (Heavy) damage

Rate = See additional sheet

Amos, Chrys, Other = The amount and type of asbestos found to be present in a given material based on laboratory analysis.

AHERA = See additional sheet.

# EXPLANATION OF CONDITION RATING

The suspect asbestos-containing materials have been assigned condition ratings based on the physical condition at the time of the survey. Numerical ratings are assigned based on the following:

- 0 = Samples of this material did not contain detectable trace amounts of asbestos and requires no asbestos abatement action.
- 1 = Material contains asbestos, is non-friable and requires no action unless sanded, abraded, drilled or otherwise disturbed in a manner that may cause fiber release.
- 2 = Material contains asbestos and is friable. Damage was not observed; no immediate abatement action is required. Periodic re-inspections are recommended to reassess the condition of this material.
- 3 = Material contains asbestos and is friable. Signs of localized damage were noted during the survey and potential for future disturbance exists. Repair or removal is recommended to reduce the potential for fiber releases.
- 4 = Material contains asbestos, is friable and is heavily damaged. Removal of this material should be given a high priority.

# EXPLANATION OF AHERA RATING

The suspect asbestos-containing materials have been assigned AHERA ratings based on physical condition at the time of the survey. Numerical ratings are assigned based on the following:

X= Samples of this material did not contain detectable trace amounts of asbestos and requires no asbestos abatement action.

1= Damaged or significantly damaged TSI (thermal system insulation) ACBM (asbestos containing building material).

2= Damaged friable surfacing ACBM.

3= Significantly damaged friable surfacing ACBM.

4= Damaged or significantly damaged friable miscellaneous ACBM.

5= ACBM with potential for damage.

6= ACBM with potential for significant damage.

7= Any remaining friable ACBM or friable suspected ACBM.

# Appendix I

## Asbestos

### Table

**U More Park**

**Material Identification Inventory**

Asbestos Bulk Results

Project Number: U More Park Phase 2 Investigation  
 Surveyor: Klaustermeier  
 Sample Date: 6/4/09 and 6/5/09

Fir	Location	Samp#	Description	Code	N.D.	Pos	Quan	Unit	Fri	Cond	Rate	Amos	Chrys	Other	AHERA
G	SOC #8	6509.3	transite laying in farm field	M		Pos			N	N	2		40%		5
G	SOC #3	SOC3.1A	shingle laying on ground by barn	M	ND			SF	N	N	0				X
G	SOC #3	SOC3.1B	shingle laying on ground by barn	M	ND			SF	N	N	0				X
G	SOC #3	SOC3.1C	shingle laying on ground by barn	M	ND			SF	N	N	0				X
G	SOC #3	SOC3.1D	shingle on barn	M	ND			SF	N	N	0				X

SOC#3 is site of concern #3 as identified for the Barr Phase 2 Investigation work

SOC#8 is site of concern #8 as identified for the Barr Phase 2 Investigation work



Certificate No: 5LM090408081R

Expiration Date: September 4, 2009

This is to certify that  
**David Klaustermeier**

has attended and successfully completed an  
**ASBESTOS INSPECTOR  
REFRESHER TRAINING COURSE**

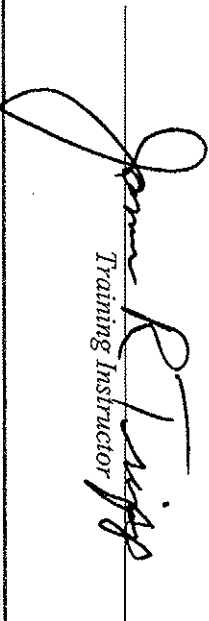
permitted by

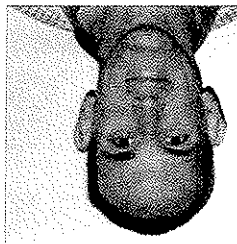
the State of Minnesota under Minnesota Rules 4620.3702 to 4620.3722  
and meets the requirements of  
Section 206 of Title II of the Toxic Substances Control Act (TSCA)  
conducted by

**Lake States Environmental, Ltd.**

**White Bear Lake, MN on September 4, 2008**  
**Examination Date: September 4, 2008**

Lake States Environmental, Ltd  
P. O. Box 645, Rice Lake, WI 54868  
(800) 254-9811

  
Training Instructor



**MDH**  
ASBESTOS INSPECTOR  
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Department of Health  
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Director, Env. Health Div.  
No A12256 Issued: 09/11/2008