ESESIS

110022 FM 3326 South - Hawley, Texas 79525
(915) 672-5719 - Fax (915) 695-8455 - (800) 793-7255 - email Thorncm@aol.com

In Conjunction with

NORTH AMERICAN ANALYTICAL LABS Inc.

4601 Buffalo Gap Road Suite A-5 - Abilene, TX 79606/ P.O. Box 6865/79608
(915) 691-0172 - (800) 234-3056 - email DEWalker555@aol.com

ASBESTOS BUILDING SURVEY

of

Central Plant

3410 Taft Boulevard
Wichita Falls, TX 76308

Building Number: 0032

Completed for

Midwestern State University

Report Date:
July 12, 2000

Report Number:
200035007

CONSULTANT: _____

Charles Thorn TDH License #10-5047

CONSULTANT: _____

Denny E. Walker TDH License #10-5023

INSPECTOR: _____

Tom Gill TDH License #60-1835

INSPECTOR: _____

Steven E. Robb TDH License #60-2004

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SUMMARY
EVALUATION

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Project Number: ACM-2000-01 Date: July 12, 2000

PAST SITE HISTORY/CONSTRUCTION

Records provided by MSU show this building to be 10,613 square feet in size. Original construction was completed in 1949 and an addition was completed in 1967. This is a two story building. The exterior of the building is typical construction for MSU properties, clay brick with herring bone accents. It also has a pitched roof with clay over-lay shingles.

The interior finishes consists of painted walls, tiled floors and drop ceiling tile grids.

ASBESTOS CONTAINING MATERIAL SUMMARY

(The square and linear footages are approximations.)

This asbestos survey was conducted using the basic guidelines of the Asbestos Hazard Emergency Response Act (AHERA), except for the number of samples collected for each homogeneous area/material. The amount of samples were collected is consistent with the Texas Department of Health regulations. Samples were assigned a unique identifying number, placed in sealed containers and sent to the laboratory for analysis.

One Hundred twenty-seven, (127) samples were collected and analyzed in this survey. The samples were analyzed for asbestos content using polarized light microscopy (PLM) in accordance with the Environmental Protection Agency's "Interim method for the Determination of Asbestos in Bulk Insulation Samples" (EPA 600/M4-82-020, December, 1982).

The percentages of asbestos, where applicable, were determined by microscopic visual examination based on volume. Analyses were performed by Crisp Analytical Laboratories , LLC. And Quest MicroAnalytics, Inc. both of these labs are accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). Both labs used are also licensed by the Texas Department of Health.

Asbestos containing building materials (ACBM) are assessed as being friable or non-friable. Friable materials can be pulverized into dust by hand pressure and have a higher potential for fiber release than non-friable ACM. Each type of material is also assigned a hazard rank based upon the level of damage currently apparent in the material and that, due to external factors, is likely to be damaged in the future. The hazard rank may range from 1, indicating little problem, to 7, which can indicate a serious health risk.

Miscellaneous Material

Caulk **1** - **20** - **Non-Friable** Hazard Rank: 3

Homog. Area Description:	Door frame caulk	
Amount of Material:	~17 doors	
Homog. Area Definition:	Throughout door frames in the building.	
Functional Space:	Public Area	
Sample Location:	Collected from left side of the door in chemical storage	
Primary Analysis Results:	**Chrysotile**	2%
Secondary Analysis Results::		0%

Miscellaneous Material

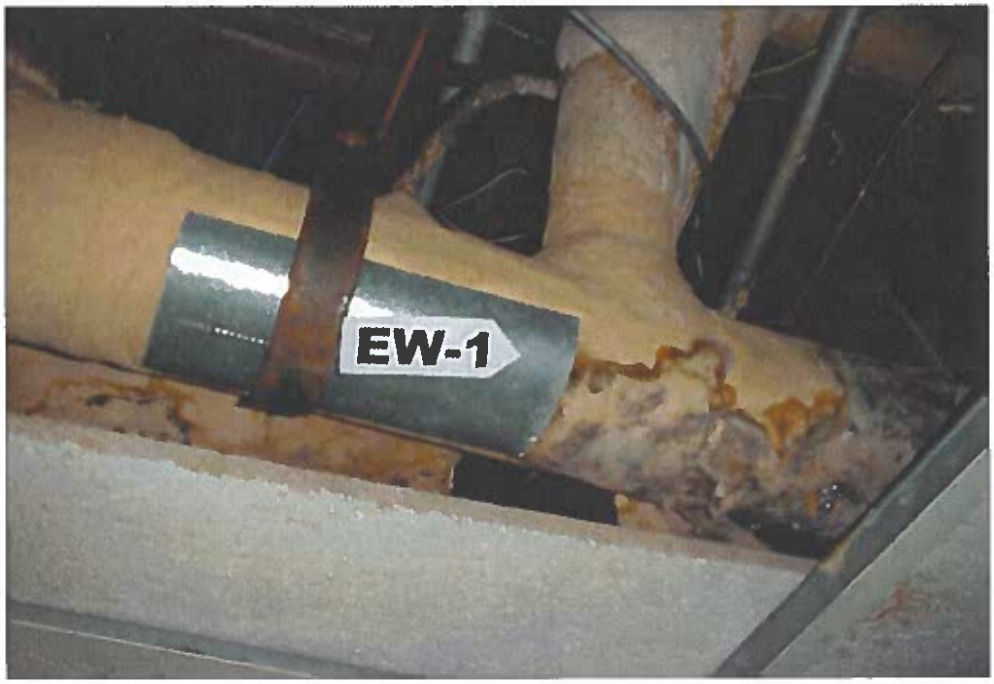
Caulk **1 - 21 -** **Non-Friable** Hazard Rank: 3

Homog. Area Description:	Door frame caulk	
Amount of Material:	~17 doors	
Homog. Area Definition:	Throughout door frames in the building.	
Functional Space:	Public Area	
Sample Location:	Collected from right side of testing room door	
Primary Analysis Results:	**Chrysotile**	2%
Secondary Analysis Results::		0%

Caulk **1 - 22 -** **Non-Friable** Hazard Rank: 3

Homog. Area Description:	Door frame caulk	
Amount of Material:	~17 doors	
Homog. Area Definition:	Throughout door frames in the building.	
Functional Space:	Public Area	
Sample Location:	Collected from right side of door in reception room	
Primary Analysis Results:	**Chrysotile**	2%
Secondary Analysis Results::		0%

Thermal System Insulation



Elbow Wrap **1** - **26** - **Friable** Hazard Rank: 5

Homog. Area Description:	White Elbow wrap (fitting) insulation
Amount of Material:	~20 elbows
Homog. Area Definition:	This material is found above the ceilings in the control office. The material is in a deteriorated condition.
Functional Space:	Mechanical
Sample Location:	Collected from above the drop ceiling in the control office wall #3.
Primary Analysis Results:	Chrysotile 15%
Secondary Analysis Results::	0%

Thermal System Insulation

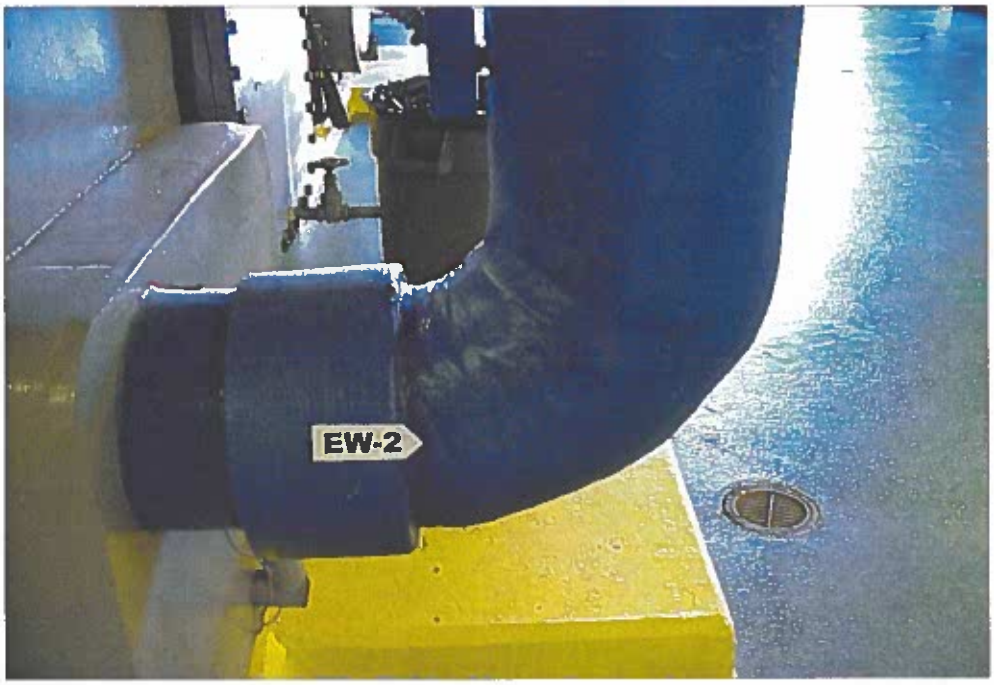
Elbow Wrap 1 - 28 - Friable Hazard Rank: 5

Homog. Area Description:	White Elbow wrap (fitting) insulation	
Amount of Material:	~20 elbows	
Homog. Area Definition:	This material is found above the ceilings in the control office. The material is in a deteriorated condition.	
Functional Space:	Mechanical	
Sample Location:	Collected from above the drop ceiling in the control office wall #3.	
Primary Analysis Results:	**Chrysotile**	3%
Secondary Analysis Results::		0%

Elbow Wrap 1 - 27 - Friable Hazard Rank: 5

Homog. Area Description:	White Elbow wrap (fitting) insulation	
Amount of Material:	~20 elbows	
Homog. Area Definition:	This material is found above the ceilings in the control office. The material is in a deteriorated condition.	
Functional Space:	Mechanical	
Sample Location:	Collected from above the drop ceiling in the control office wall #3.	
Primary Analysis Results:	**Chrysotile**	2%
Secondary Analysis Results::		0%

Thermal System Insulation



Elbow Wrap **2** - **32** - **Friable** Hazard Rank: 4

Homog. Area Description:	Pipe Elbow Fittings, Blue
Amount of Material:	~30 elbows
Homog. Area Definition:	This materials found on the chillers at ground level.
Functional Space:	Mechanical
Sample Location:	Collected from a fitting on chiller #5, next to the yellow stairs at the 1st elbow.
Primary Analysis Results:	**Chrysotile** 20%
Secondary Analysis Results::	0%

Thermal System Insulation

Elbow Wrap **3** - **43** - **Friable** Hazard Rank: 4

Homog. Area Description:	Elbow fitting insulation, Blue	
Amount of Material:	~75 elbows	
Homog. Area Definition:	This material is found on the chilled water lines and appears to be old material.	
Functional Space:	Mechanical	
Sample Location:	Collected from a fitting on the 2nd floor south wall by window next to valve.	
Primary Analysis Results:	**Chrysotile**	13%
Secondary Analysis Results::	**Chrysotile**	50%

Thermal System Insulation

Elbow Wrap **3** - **42** - **Friable** Hazard Rank: 4

Homog. Area Description:	Elbow fitting insulation, Blue
Amount of Material:	~75 elbows
Homog. Area Definition:	This material is found on the chilled water lines and appears to be old material.
Functional Space:	Mechanical
Sample Location:	Collected from fitting on the 2nd floor south wall by window above head.
Primary Analysis Results:	**Chrysotile** 12%
Secondary Analysis Results::	**Chrysotile** 52%

Thermal System Insulation

Elbow Wrap **4** - **47** - **Friable** Hazard Rank: 4

Homog. Area Description:	Pipe insulation, Green	
Amount of Material:	~60 elbows	
Homog. Area Definition:	Pipe insulation on the city water pipes	
Functional Space:	Mechanical	
Sample Location:	Collected from elbow on chilled water tank	
Primary Analysis Results:	**Chrysotile**	25%
Secondary Analysis Results::		0%

Thermal System Insulation

Elbow Wrap 4 - 48 - Friable Hazard Rank: 4

Homog. Area Description:	Pipe insulation, Green	
Amount of Material:	~60 elbows	
Homog. Area Definition:	Pipe insulation on the city water pipes	
Functional Space:	Mechanical	
Sample Location:	Collected from elbow on north wall near make up tank	
Primary Analysis Results:	**Chrysotile**	15%
Secondary Analysis Results::	**Chrysotile**	0%

Less than 1% chrysotile in second layer

Elbow Wrap 4 - 49 - Friable Hazard Rank: 4

Homog. Area Description:	Pipe insulation, Green	
Amount of Material:	~60 elbows	
Homog. Area Definition:	Pipe insulation on the city water pipes	
Functional Space:	Mechanical	
Sample Location:	Collected from elbow on south wall near floor by valve	
Primary Analysis Results:	**Chrysotile**	58%
Secondary Analysis Results::	**Chrysotile**	30%

Thermal System Insulation

Elbow Wrap **5** - **58** - **Friable** Hazard Rank: 4

Homog. Area Description:	Elbow insulation	
Amount of Material:	~40 elbows	
Homog. Area Definition:	Elbow insulation of the red steam pipes	
Functional Space:	Mechanical	
Sample Location:	Collected at large gate valve in front of boiler #3.	
Primary Analysis Results:	**Chrysotile**	35%
Secondary Analysis Results::	**Chrysotile**	10%

Thermal System Insulation

Elbow Wrap **5** - **57** - **Friable** Hazard Rank: 4

Homog. Area Description:	Elbow insulation	
Amount of Material:	~40 elbows	
Homog. Area Definition:	Elbow insulation of the red steam pipes	
Functional Space:	Mechanical	
Sample Location:	Collected from Above boiler #3.	
Primary Analysis Results:	**Chrysotile**	30%
Secondary Analysis Results::	**Chrysotile**	0%

Less than 1%, second layer

Elbow Wrap **5** - **56** - **Friable** Hazard Rank: 4

Homog. Area Description:	Elbow insulation	
Amount of Material:	~40 elbows	
Homog. Area Definition:	Elbow insulation of the red steam pipes	
Functional Space:	Mechanical	
Sample Location:	Collected from large red elbow above boiler #2.	
Primary Analysis Results:	**Chrysotile**	30%
Secondary Analysis Results::		0%

Thermal System Insulation

Elbow Wrap **6** - **62** - **Friable** Hazard Rank: 4

Homog. Area Description:	Elbow insulation	
Amount of Material:	~16 elbows	
Homog. Area Definition:	This material can be found on the elbows of the orange pipes	
Functional Space:	Public Area	
Sample Location:	Collected from orange elbow at 2 ton hoist	
Primary Analysis Results:	**Chrysotile**	60%
Secondary Analysis Results::		0%

Thermal System Insulation

Elbow Wrap 6 - 63 - Friable Hazard Rank: 4

Homog. Area Description:	Elbow insulation	
Amount of Material:	~16 elbows	
Homog. Area Definition:	This material can be found on the elbows of the orange pipes	
Functional Space:	Public Area	
Sample Location:	Collected from lower orange elbow at 2 ton hoist	
Primary Analysis Results:	**Chrysotile**	49%
Secondary Analysis Results::	**Chrysotile**	3%

Elbow Wrap 6 - 64 - Friable Hazard Rank: 4

Homog. Area Description:	Elbow insulation	
Amount of Material:	~16 elbows	
Homog. Area Definition:	This material can be found on the elbows of the orange pipes	
Functional Space:	Public Area	
Sample Location:	Elbow coming from #61	
Primary Analysis Results:	**Chrysotile**	14%
Secondary Analysis Results::	**Chrysotile**	0%

Less than 1% chrysotile in the second layer

Thermal System Insulation

Elbow Wrap **7** - **68** - **Friable** Hazard Rank: 4

Homog. Area Description:	Elbow insulation, gray
Amount of Material:	~15 elbows
Homog. Area Definition:	Insulation on elbows on the gray pipe runs located throughout the machine room
Functional Space:	Public Area
Sample Location:	Collected from gray elbow at the right side of the 2-ton hoist
Primary Analysis Results:	**Chrysotile** 35%
Secondary Analysis Results::	0%

Thermal System Insulation

Elbow Wrap 7 - 69 - Friable Hazard Rank: 4

Homog. Area Description:	Elbow insulation, gray	
Amount of Material:	~15 elbows	
Homog. Area Definition:	Insulation on elbows on the gray pipe runs located throughout the machine room	
Functional Space:	Public Area	
Sample Location:	Collected from the same area as #68	
Primary Analysis Results:	**Chrysotile**	18%
Secondary Analysis Results::		0%

Elbow Wrap 7 - 70 - Friable Hazard Rank: 4

Homog. Area Description:	Elbow insulation, gray	
Amount of Material:	~15 elbows	
Homog. Area Definition:	Insulation on elbows on the gray pipe runs located throughout the machine room	
Functional Space:	Public Area	
Sample Location:	Collected from the pipe run elbow near the center aisle in the machine shop next to the loudspeakers	
Primary Analysis Results:	**Chrysotile**	18%
Secondary Analysis Results::	**Chrysotile**	0%

Less than 1% chrysotile in the second layer

Thermal System Insulation

Elbow Wrap **9** - **80** - **Friable** Hazard Rank: 4

Homog. Area Description:	Elbow insulation, white, tan, old	
Amount of Material:	~7 elbows	
Homog. Area Definition:	On boilers, 1, and 2.	
Functional Space:	Mechanical	
Sample Location:	Collected from elbow on boiler #1.	
Primary Analysis Results:	**Chrysotile**	60%
Secondary Analysis Results::		0%

Thermal System Insulation

Elbow Wrap 9 - 81 - **Friable** Hazard Rank: 4

Homog. Area Description:	Elbow insulation, white, tan, old	
Amount of Material:	~7 elbows	
Homog. Area Definition:	On boilers, 1, and 2.	
Functional Space:	Mechanical	
Sample Location:	Collected from elbow on boiler #1.	
Primary Analysis Results:	**Chrysotile**	78%
Secondary Analysis Results::	**Chrysotile**	5%

Elbow Wrap 9 - 82 - **Friable** Hazard Rank: 4

Homog. Area Description:	Elbow insulation, white, tan, old	
Amount of Material:	~7 elbows	
Homog. Area Definition:	On boilers, 1, and 2.	
Functional Space:	Mechanical	
Sample Location:	Collected from elbow on boiler #2.	
Primary Analysis Results:	**Chrysotile**	74%
Secondary Analysis Results::		0%

Thermal System Insulation

Other TSI **3** - **84** - **Friable** Hazard Rank: 4

Homog. Area Description:	Insulation	
Amount of Material:	~650 Square feet	
Homog. Area Definition:	Insulation on boiler stacks going to ceiling	
Functional Space:	Mechanical	
Sample Location:	Collected from stack of boiler #2.	
Primary Analysis Results:	**Chrysotile**	20%
Secondary Analysis Results::	**Chrysotile**	10%

Thermal System Insulation

Other TSI **3** - **83** - **Friable** Hazard Rank: 4

Homog. Area Description:	Insulation	
Amount of Material:	~650 Square feet	
Homog. Area Definition:	Insulation on boiler stacks going to ceiling	
Functional Space:	Mechanical	
Sample Location:	Collected from stack of boiler #1.	
Primary Analysis Results:	**Chrysotile**	60%
Secondary Analysis Results::		0%

Thermal System Insulation

Other TSI **4** - **88** - **Friable** Hazard Rank: 4

Homog. Area Description:	Insulation	
Amount of Material:	~72 Square feet	
Homog. Area Definition:	Insulation on the boiler drain and access ports	
Functional Space:	Mechanical	
Sample Location:	Collected from aft drain plug on #2.	
Primary Analysis Results:	**Chrysotile**	36%
Secondary Analysis Results::	**Chrysotile**	0%

Less than 1% chrysotile in the first layer

Thermal System Insulation

Other TSI **4** - **87** - **Friable** Hazard Rank: 4

Homog. Area Description:	Insulation	
Amount of Material:	~72 Square feet	
Homog. Area Definition:	Insulation on the boiler drain and access ports	
Functional Space:	Mechanical	
Sample Location:	Collected from front drain plug on boiler #2.	
Primary Analysis Results:	**Chrysotile**	4%
Secondary Analysis Results::	**Chrysotile**	28%

Other TSI **4** - **86** - **Friable** Hazard Rank: 4

Homog. Area Description:	Insulation	
Amount of Material:	~72 Square feet	
Homog. Area Definition:	Insulation on the boiler drain and access ports	
Functional Space:	Mechanical	
Sample Location:	Collected from front drain plug on boiler #1.	
Primary Analysis Results:	**Chrysotile**	25%
Secondary Analysis Results::		0%

Thermal System Insulation

Other TSI **5** - **115** - **Friable** Hazard Rank: 4

Homog. Area Description:	Insulation
Amount of Material:	~200 Square feet
Homog. Area Definition:	Insulation on the chiller #5.
Functional Space:	Mechanical
Sample Location:	Collected from the middle cylinder of chiller #5.
Primary Analysis Results:	Chrysotile 26%
Secondary Analysis Results::	Chrysotile 0%

less than 1% chrysotile detected in the second and third layers

Thermal System Insulation

Other TSI **5** - **114** - **Friable** Hazard Rank: 4

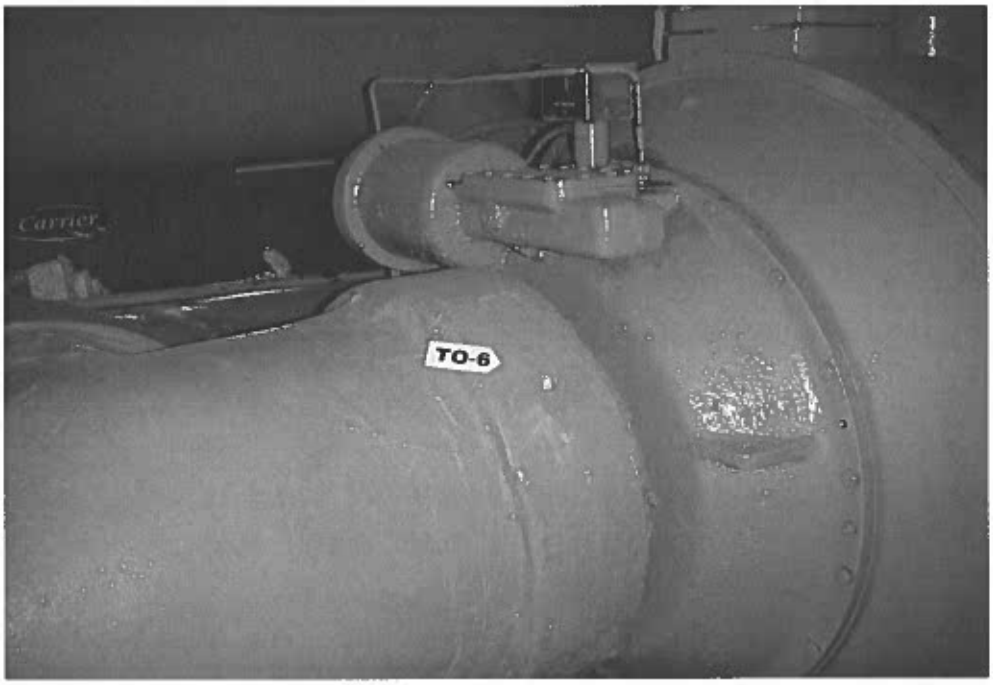
Homog. Area Description:	Insulation	
Amount of Material:	~200 Square feet	
Homog. Area Definition:	Insulation on the chiller #5.	
Functional Space:	Mechanical	
Sample Location:	Collected from the aft end cap of chiller #5.	
Primary Analysis Results:	**Chrysotile**	2%
Secondary Analysis Results::	**Chrysotile**	48%

2% chrysotile also detected in the third layer.

Other TSI **5** - **113** - **Friable** Hazard Rank: 4

Homog. Area Description:	Insulation	
Amount of Material:	~200 Square feet	
Homog. Area Definition:	Insulation on the chiller #5.	
Functional Space:	Mechanical	
Sample Location:	Collected from the end cap of chiller #5.	
Primary Analysis Results:	**Chrysotile**	30%
Secondary Analysis Results::		0%

Thermal System Insulation



Other TSI **6** **-** **116** **-** **Friable** Hazard Rank: 4

Homog. Area Description:	Insulation	
Amount of Material:	~60 Square feet	
Homog. Area Definition:	Insulation on the large fittings or ducting on the chiller #5.	
Functional Space:	Mechanical	
Sample Location:	Collected from the chiller components on chiller #5.	
Primary Analysis Results:	**Chrysotile**	30%
Secondary Analysis Results::		0%

Thermal System Insulation

Other TSI **6** - **118** - **Friable** Hazard Rank: 4

Homog. Area Description:	Insulation
Amount of Material:	~60 Square feet
Homog. Area Definition:	Insulation on the large fittings or ducting on the chiller #5.
Functional Space:	Mechanical
Sample Location:	Collected from the chiller components on chiller #5
Primary Analysis Results:	**Chrysotile** 32%
Secondary Analysis Results::	**Chrysotile** 0%

Less than 1% asbestos was found in the first layer

ESESIS and NORTH AMERICAN ANALYTICAL LABS Inc.
SUMMARY EVALUATION

Thermal System Insulation

Other TSI **7** - **120** - **Friable** Hazard Rank: 4

Homog. Area Description:	Insulation
Amount of Material:	~200 Square feet
Homog. Area Definition:	insulation on the chiller #4 on the second floor
Functional Space:	Mechanical
Sample Location:	Collected from the middle of cylinder.
Primary Analysis Results:	**Chrysotile** 2%
Secondary Analysis Results::	**Chrysotile** 27%
	Less than 1% in the first layer

Thermal System Insulation

Other TSI 7 - 119 - **Friable** Hazard Rank: 4

Homog. Area Description:	Insulation	
Amount of Material:	~200 Square feet	
Homog. Area Definition:	insulation on the chiller #4 on the second floor	
Functional Space:	Mechanical	
Sample Location:	Collected from the end cap	
Primary Analysis Results:	**Chrysotile**	35%
Secondary Analysis Results::		0%

Other TSI 7 - 121 - **Friable** Hazard Rank: 4

Homog. Area Description:	Insulation	
Amount of Material:	~200 Square feet	
Homog. Area Definition:	insulation on the chiller #4 on the second floor	
Functional Space:	Mechanical	
Sample Location:	Collected from the rear end cap of cylinder.	
Primary Analysis Results:	**Chrysotile**	2%
Secondary Analysis Results::	**Chrysotile**	34%

Thermal System Insulation

Pipe Insulation **4** - **54** - **Friable** Hazard Rank: 4

Homog. Area Description:	Pipe insulation
Amount of Material:	~600 linear feet
Homog. Area Definition:	pipe insulation on the red steam pipes
Functional Space:	Mechanical
Sample Location:	Collected from Boiler #2.
Primary Analysis Results:	**Chrysotile** 40%
Secondary Analysis Results::	**Chrysotile** 0%

Second layer less than 1% Chrysotile

Thermal System Insulation

Pipe Insulation **4** - **53** - **Friable** Hazard Rank: 4

Homog. Area Description:	Pipe insulation	
Amount of Material:	~600 linear feet	
Homog. Area Definition:	pipe insulation on the red steam pipes	
Functional Space:	Mechanical	
Sample Location:	Collected from Boiler #1.	
Primary Analysis Results:	**Chrysotile**	30%
Secondary Analysis Results::		0%

Thermal System Insulation

Pipe Insulation 5 - 60 - Friable Hazard Rank: 4

Homog. Area Description:	Orange Pipe run insulation
Amount of Material:	~200 linear feet
Homog. Area Definition:	In the plant area mainly on the north side of the building
Functional Space:	Public Area
Sample Location:	Collected from orange pipe run at overhead door
Primary Analysis Results:	**Chrysotile** 41%
Secondary Analysis Results::	**Chrysotile** 0%

Less than 1% chrysotile in the second layer

Thermal System Insulation

Pipe Insulation 5 - 61 - Friable Hazard Rank: 4

Homog. Area Description:	Orange Pipe run insulation	
Amount of Material:	~200 linear feet	
Homog. Area Definition:	In the plant area mainly on the north side of the building	
Functional Space:	Public Area	
Sample Location:	Collected from orange pipe run going into carrier unit at overhead door	
Primary Analysis Results:	**Chrysotile**	45%
Secondary Analysis Results::	**Chrysotile**	0%

Less than 1% chrysotile in the second layer

Pipe Insulation 5 - 59 - Friable Hazard Rank: 4

Homog. Area Description:	Orange Pipe run insulation	
Amount of Material:	~200 linear feet	
Homog. Area Definition:	In the plant area mainly on the north side of the building	
Functional Space:	Public Area	
Sample Location:	Orange pipe run just inside overhead door	
Primary Analysis Results:	**Chrysotile**	30%
Secondary Analysis Results::		0%

Thermal System Insulation

Pipe Insulation 8 - 77 - Friable Hazard Rank: 4

Homog. Area Description:	Pipe insulation	
Amount of Material:	~10 linear feet	
Homog. Area Definition:	This material can be found on boiler #1.	
Functional Space:	Mechanical	
Sample Location:	Collected from tan pipe run at boiler #1.	
Primary Analysis Results:	**Chrysotile**	60%
Secondary Analysis Results::		0%

Thermal System Insulation

Pipe Insulation 8 - 78 - Friable Hazard Rank: 4

Homog. Area Description:	Pipe insulation	
Amount of Material:	~10 linear feet	
Homog. Area Definition:	This material can be found on boiler #1.	
Functional Space:	Mechanical	
Sample Location:	Collected from boiler #1.	
Primary Analysis Results:	**Chrysotile**	24%
Secondary Analysis Results::	**Chrysotile**	0%

Less than 1% chrysotile in the second layer

Pipe Insulation 8 - 79 - Friable Hazard Rank: 4

Homog. Area Description:	Pipe insulation	
Amount of Material:	~10 linear feet	
Homog. Area Definition:	This material can be found on boiler #1.	
Functional Space:	Mechanical	
Sample Location:	Collected from boiler #1.	
Primary Analysis Results:	**Chrysotile**	35%
Secondary Analysis Results::	**Chrysotile**	2%

Thermal System Insulation

Tank Insulation 1 - 89 - Friable Hazard Rank: 4

Homog. Area Description:	Tank insulation	
Amount of Material:	~550 Square feet	
Homog. Area Definition:	Insulation on the tank right of boiler #1.	
Functional Space:	Mechanical	
Sample Location:	Collected from the tank right of boiler #1.	
Primary Analysis Results:	**Chrysotile**	25%
Secondary Analysis Results::		0%

Thermal System Insulation

Tank Insulation 1 - 90 - Friable Hazard Rank: 4

Homog. Area Description:	Tank insulation	
Amount of Material:	~550 Square feet	
Homog. Area Definition:	Insulation on the tank right of boiler #1.	
Functional Space:	Mechanical	
Sample Location:	Collected from the tank right of boiler #1.	
Primary Analysis Results:	**Chrysotile**	2%
Secondary Analysis Results::	**Chrysotile**	40%

Thermal System Insulation

Tank Insulation 2 - 93 - Friable Hazard Rank: 4

Homog. Area Description:	Tank Insulation
Amount of Material:	~275 Square feet
Homog. Area Definition:	Blue water tank on the north wall
Functional Space:	Mechanical
Sample Location:	Collected from the blue water tank
Primary Analysis Results:	**Chrysotile** 2%
Secondary Analysis Results::	**Chrysotile** 0%

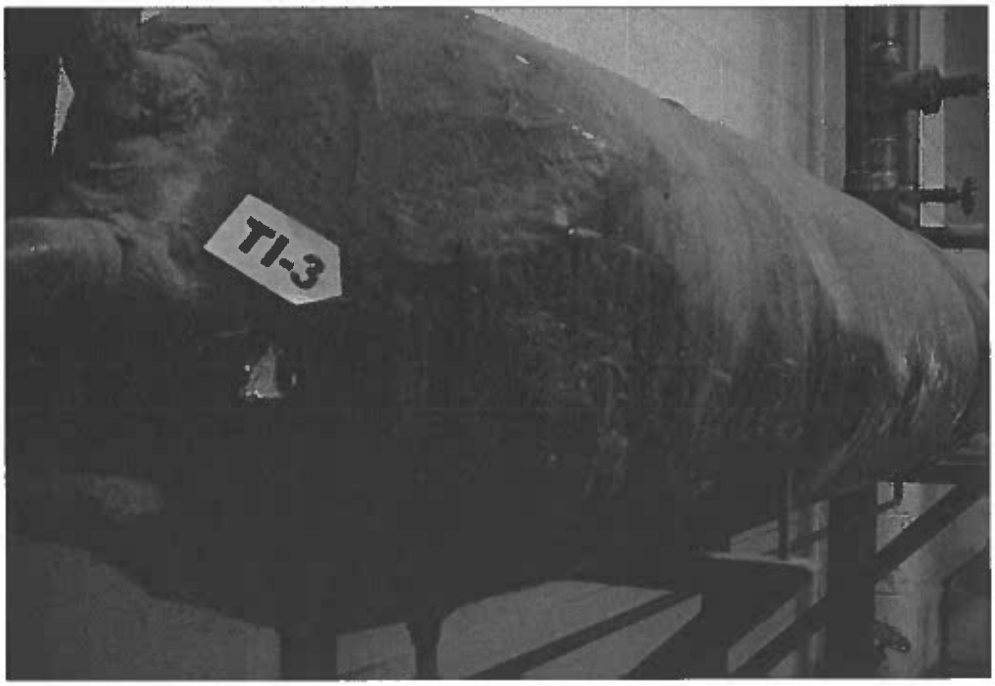
Less than 1% chrysotile in the first layer

Thermal System Insulation

Tank Insulation 2 - 94 - **Friable** Hazard Rank: 4

Homog. Area Description:	Tank Insulation	
Amount of Material:	~275 Square feet	
Homog. Area Definition:	Blue water tank on the north wall	
Functional Space:	Mechanical	
Sample Location:	Collected from the blue water tank	
Primary Analysis Results:	**Chrysotile**	3%
Secondary Analysis Results::		0%

Thermal System Insulation



Tank Insulation 3 - 107 - Friable Hazard Rank: 6

Homog. Area Description:	Tank insulation	
Amount of Material:	~24 Square feet	
Homog. Area Definition:	On the upper black tank on the west wall right of overhead door	
Functional Space:	Mechanical	
Sample Location:	Collected from left end cap of tank	
Primary Analysis Results:	**Chrysotile**	10%
Secondary Analysis Results::		0%

Thermal System Insulation

Tank Insulation 3 - 109 - Friable Hazard Rank: 6

Homog. Area Description:	Tank insulation	
Amount of Material:	~24 Square feet	
Homog. Area Definition:	On the upper black tank on the west wall right of overhead door	
Functional Space:	Mechanical	
Sample Location:	Collected from right end cap of tank	
Primary Analysis Results:	**Chrysotile**	3%
Secondary Analysis Results::		0%

Thermal System Insulation

Tank Insulation 4 - 110 - Friable Hazard Rank: 6

Homog. Area Description:	Tank insulation	
Amount of Material:	~18 Square feet	
Homog. Area Definition:	Insulation on lower tank on the west wall	
Functional Space:	Mechanical	
Sample Location:	Collected from left end cap of tank	
Primary Analysis Results:	**Chrysotile**	10%
Secondary Analysis Results::		0%

Thermal System Insulation

Tank Insulation 4 - 112 - **Friable** Hazard Rank: 6

Homog. Area Description:	Tank insulation	
Amount of Material:	~18 Square feet	
Homog. Area Definition:	Insulation on lower tank on the west wall	
Functional Space:	Mechanical	
Sample Location:	Collected from right end cap of tank	
Primary Analysis Results:	**Chrysotile**	4%
Secondary Analysis Results::	**Chrysotile**	2%

CONCLUSIONS AND RECOMMENDATIONS

CONCLUSION:

One hundred and twenty-seven (127) samples were collected from forty-one materials or homogenous materials or areas. Twenty-one of those areas or materials were found to contained over one percent asbestos by one or both of the laboratories. Individual sample values or composition can be found in the homogenous area report in section 2.0 of this report.

The caulking referred to in this report as area MC-1. Three samples 20, 21, and 22 were taken and all three identified positive. This material can be found on all door frames. There is approximately 17 door frames containing this material.

The elbow insulation referred to in this report as area EW-1. Three samples 26, 27, and 28 were taken and all three identified positive. This material can be found above the ceilings in the office areas. There is approximately 20 elbows containing this material.

The elbow insulation referred to in this report as area EW-2. Three samples 32, 33, and 34 were taken and one, (32), identified positive. This material can be found throughout the machine area. There are approximately 30 elbows containing this material.

The elbow insulation referred to in this report as area EW-3. Three samples 41, 42, and 43 were taken and two, (42,43), were identified positive. This material can be found throughout the machine room area. There is approximately 75 elbows containing this material.

The elbow insulation referred to in this report as area EW-4. Three samples 47, 48, and 49 were taken and all three identified positive. This material can be found throughout the machine area. There is approximately 60 elbows containing this material.

The pipe insulation referred to in this report as area PR-4. Three samples 53, 54, and 55 were taken and two, (53,54), were identified positive. This material can be found throughout the north half of the machine room. There is approximately 600 linear feet of this material.

The elbow insulation referred to in this report as area EW-5. Three samples 56, 57,and 58 were taken and all three identified positive. This material can be found throughout the north half of the machine room. There is approximately 40 elbows containing this material.

The pipe insulation referred to in this report as area PR-5. Three samples 59, 60, and 61 were taken and all three identified positive. This material can be found throughout the machine shop area. There is approximately 200 linear feet of this material.

The elbow insulation referred to in this report as area EW-6. Three samples 62, 63, and 64 were taken and all three identified positive. This material can be found throughout the machine room area. There is approximately 16 elbows containing this material.

The elbow insulation referred to in this report as area EW-7. Three samples 68, 69, and 70 were and all three identified positive. This material can be found throughout the machine. There is approximately 15 elbows containing this material.

The pipe insulation referred to in this report as area PR-8. Three samples 77, 78, and 79 were taken and all three identified positive. This material can be found on two boilers in the machine area. There is approximately 10 linear feet of this material.

The elbow insulation referred to in this report as area EW-9. Three samples 80, 81, and 82 were taken and all three were identified positive. This material can be found on two boilers in the machine area. There is approximately 7 elbows containing this material.

The thermal insulation referred to in this report as area TO-3. Three samples 83, 84, and 85 were taken and two, (83,84), identified positive. This material can be found on two boiler stacks. There is approximately 650 square feet of this material.

The thermal insulation referred to in this report as area TO-4. Three samples 86, 87, and 88 were taken and all three identified positive. This material can be found on two boilers. There is approximately 72 square feet of this material.

The tank insulation referred to in this report as area TI-1. Three samples 89, 90, and 91 were taken and two, (89,90), were identified positive. This material can be found on first large tank right of boilers in the machine area. There is approximately 550 square feet of this material.

The tank insulation referred to in this report as area TI-2. Three samples 92, 93, and 94 were taken and two, (93, 94), were identified positive. This material can be found on the water tank near the north west corner of the machine area. There is approximately 275 square feet of this material.

The tank insulation referred to in this report as area TI-3. Three sample 107, 108, and 109 were taken and two, (107, 109), were identified positive. This material can be found on the tank located on the west wall, second floor. There is approximately 24 square feet of this material.

The tank insulation referred to in this report as area TI-4. Three samples 110, 111, and 112 were taken and two, (110, 112), were identified positive. This material can be found on the

lower tank located on the west wall, second floor. There is approximately 18 square feet of this material.

The insulation referred to in this report as area TO-5. Three samples 113, 114, and 115 were taken and all three were identified positive. This material can be found on the chiller#5, main housing. There is approximately 200 square feet of this material.

The insulation referred to in this report as area TO-6. Three samples 116, 117, and 118 were taken and two, (116, 118), were identified positive. This material can be found on the chiller, "Mama Rod," components on its east side. There is approximately 60 square feet of this material.

The insulation referred to in this report as area TO-7. Three samples 119, 120, and 121 were taken and all three identified positive. This material can be found on the second floor of the machine room on the chiller #4, main housing. There is approximately 200 square feet of this material.

There are seventeen fire doors. These doors are assumed to contain asbestos. Any physical inspection to verify the presence of asbestos would compromise the integrity of these doors.

RECOMMENDATION:

Should any of the above identified ACM need to be disturbed or removed, the following regulations should be adhered to. State of Texas, Federal, and OSHA regulations require that all asbestos containing building materials (ACBM) in public buildings in Texas that will be disturbed in any demolition or renovation activities must be removed by Texas Department of Health licensed and certified personnel (i.e.. Asbestos Consultant, Asbestos Abatement Contractor, Asbestos Abatement Workers, and Air Monitoring Technicians) prior to the demolition or renovation activities by general construction personnel.

LIMITATIONS AND REPRODUCTIONS

Neither ESESIS, nor NAAL Inc. makes any warranty, assurance, or guarantee that other asbestos containing materials may not be in the building in hidden or inaccessible areas.

This report has been prepared on behalf of and for the exclusive use of Midwestern State University for use in an environmental evaluation of this building. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party in whole or in part, without the written consent of ESESIS, or NAAL Inc.

ACM Homogeneous Area Summary

Report Number: 200035007

Homogeneous Area		Amount of Material	Type and Percent of Asbestos Detected	
Caulk	**1**	~17 doors		
Sample Number	20		Chrysotile	2%
				0%
Comments:				
Sample Number	21		Chrysotile	2%
				0%
Comments:				
Sample Number	22		Chrysotile	2%
				0%
Comments:				
Caulk	**3**			
Sample Number	96		Chrysotile	0%
				0%
Comments: Less than 1% in the first layer				
Sample Number	97		Chrysotile	0%
				0%
Comments: Less than 1% in the first layer				

ACM Homogeneous Area Summary

Report Number: 200035007

Homogeneous Area		Amount of Material	Type and Percent of Asbestos Detected	
Elbow Wrap	**1**	~20 elbows		
Sample Number	26		Chrysotile	15%
				0%
Comments:				
Sample Number	27		Chrysotile	2%
				0%
Comments:				
Sample Number	28		Chrysotile	3%
				0%
Comments:				
Elbow Wrap	**2**	~30 elbows		
Sample Number	32		Chrysotile	20%
				0%
Comments:				
Elbow Wrap	**3**	~75 elbows		
Sample Number	42		Chrysotile	12%
			Chrysotile	52%
Comments:				
Sample Number	43		Chrysotile	13%
			Chrysotile	50%
Comments:				

ACM Homogeneous Area Summary

Report Number: 200035007

Homogeneous Area		Amount of Material	Type and Percent of Asbestos Detected	
Elbow Wrap	**4**	~60 elbows		
Sample Number	47		Chrysotile	25%
				0%
Comments:				
Sample Number	48		Chrysotile	15%
			Chrysotile	0%
Comments: Less than 1% chrysotile in second layer				
Sample Number	49		Chrysotile	58%
			Chrysotile	30%
Comments:				
Elbow Wrap	**5**	~40 elbows		
Sample Number	56		Chrysotile	30%
				0%
Comments:				
Sample Number	57		Chrysotile	30%
			Chrysotile	0%
Comments: Less than 1%, second layer				
Sample Number	58		Chrysotile	35%
			Chrysotile	10%
Comments:				

ACM Homogeneous Area Summary

Report Number: 200035007

Homogeneous Area		Amount of Material	Type and Percent of Asbestos Detected	
Elbow Wrap	**6**	~16 elbows		
Sample Number	62		Chrysotile	60%
				0%
Comments:				
Sample Number	63		Chrysotile	49%
			Chrysotile	3%
Comments:				
Sample Number	64		Chrysotile	14%
			Chrysotile	0%
Comments: Less than 1% chrysotile in the second layer				
Elbow Wrap	**7**	~15 elbows		
Sample Number	68		Chrysotile	35%
				0%
Comments:				
Sample Number	69		Chrysotile	18%
				0%
Comments:				
Sample Number	70		Chrysotile	18%
			Chrysotile	0%
Comments: Less than 1% chrysotile in the second layer				

ACM Homogeneous Area Summary

Report Number: 200035007

Homogeneous Area		Amount of Material	Type and Percent of Asbestos Detected	
Elbow Wrap	**9**	~7 elbows		
Sample Number	80		Chrysotile	60%
				0%
Comments:				
Sample Number	81		Chrysotile	78%
			Chrysotile	5%
Comments:				
Sample Number	82		Chrysotile	74%
				0%
Comments:				
Other Miscellaneous	**1**			
Sample Number	17		Chrysotile	0%
				0%
Comments: Less than 1% chrysotile				
Sample Number	18		Anthophyllite	0%
				0%
Comments: Less than 1% anthophyllite				
Sample Number	19		Anthophyllite	0%
				0%
Comments: Less than 1% anthophyllite				

ACM Homogeneous Area Summary

Report Number: 200035007

Homogeneous Area		Amount of Material	Type and Percent of Asbestos Detected	
Other Surfacing	**1**			
Sample Number	13		Chrysotile	0%
				0%
Comments: Less than 1% chrysotile				
Sample Number	14		Chrysotile	0%
				0%
Comments: Less than 1% chrysotile				
Sample Number	15		Chrysotile	0%
				0%
Comments: Less than 1% chrysotile				
Sample Number	16		Chrysotile	0%
				0%
Comments: Less than 1% chrysotile				
Other TSI	**3**	~650 Square feet		
Sample Number	83		Chrysotile	60%
				0%
Comments:				
Sample Number	84		Chrysotile	20%
			Chrysotile	10%
Comments:				

ACM Homogeneous Area Summary

Report Number: 200035007

Homogeneous Area		Amount of Material	Type and Percent of Asbestos Detected	
Other TSI	**4**	~72 Square feet		
Sample Number	86		Chrysotile	25%
				0%
Comments:				
Sample Number	87		Chrysotile	4%
			Chrysotile	28%
Comments:				
Sample Number	88		Chrysotile	36%
			Chrysotile	0%
Comments: Less than 1% chrysotile in the first layer				
Other TSI	**5**	~200 Square feet		
Sample Number	113		Chrysotile	30%
				0%
Comments:				
Sample Number	114		Chrysotile	2%
			Chrysotile	48%
Comments: 2% chrysotile also detected in the third layer.				
Sample Number	115		Chrysotile	26%
			Chrysotile	0%
Comments: less than 1% chrysotile detected in the second and third layers				

ACM Homogeneous Area Summary

Report Number: 200035007

Homogeneous Area		Amount of Material	Type and Percent of Asbestos Detected	
Other TSI	**6**	~60 Square feet		
Sample Number	116		Chrysotile	30%
				0%
Comments:				
Sample Number	118		Chrysotile	32%
			Chrysotile	0%
Comments: Less than 1% asbestos was found in the first layer				
Other TSI	**7**	~200 Square feet		
Sample Number	119		Chrysotile	35%
				0%
Comments:				
Sample Number	120		Chrysotile	2%
			Chrysotile	27%
Comments: Less than 1% in the first layer				
Sample Number	121		Chrysotile	2%
			Chrysotile	34%
Comments:				

ACM Homogeneous Area Summary

Report Number: 200035007

Homogeneous Area		Amount of Material	Type and Percent of Asbestos Detected	
Pipe Insulation	**4**	~600 linear feet		
Sample Number	53		Chrysotile	30%
				0%
Comments:				
Sample Number	54		Chrysotile	40%
			Chrysotile	0%
Comments: Second layer less than 1% Chrysotile				
Pipe Insulation	**5**	~200 linear feet		
Sample Number	59		Chrysotile	30%
				0%
Comments:				
Sample Number	60		Chrysotile	41%
			Chrysotile	0%
Comments: Less than 1% chrysotile in the second layer				
Sample Number	61		Chrysotile	45%
			Chrysotile	0%
Comments: Less than 1% chrysotile in the second layer				

ACM Homogeneous Area Summary

Report Number: 200035007

Homogeneous Area		Amount of Material	Type and Percent of Asbestos Detected	
Pipe Insulation	**8**	~10 linear feet		
Sample Number	77		Chrysotile	60%
				0%
Comments:				
Sample Number	78		Chrysotile	24%
			Chrysotile	0%
Comments: Less than 1% chrysotile in the second layer				
Sample Number	79		Chrysotile	35%
			Chrysotile	2%
Comments:				
Tank Insulation	**1**	~550 Square feet		
Sample Number	89		Chrysotile	25%
				0%
Comments:				
Sample Number	90		Chrysotile	2%
			Chrysotile	40%
Comments:				

ACM Homogeneous Area Summary

Report Number: 200035007

Homogeneous Area		Amount of Material	Type and Percent of Asbestos Detected	
Tank Insulation	**2**	~275 Square feet		
Sample Number	93		Chrysotile	2%
			Chrysotile	0%
Comments: Less than 1% chrysotile in the first layer				
Sample Number	94		Chrysotile	3%
				0%
Comments:				
Tank Insulation	**3**	~24 Square feet		
Sample Number	107		Chrysotile	10%
				0%
Comments:				
Sample Number	109		Chrysotile	3%
				0%
Comments:				
Tank Insulation	**4**	~18 Square feet		
Sample Number	110		Chrysotile	10%
				0%
Comments:				
Sample Number	112		Chrysotile	4%
			Chrysotile	2%
Comments:				

HOMOGENEOUS AREA REPORT

ESESIS and NORTH AMERICAN ANALYTICAL LABS Inc.
HOMOGENEOUS AREA REPORT

Prepared for: Midwestern State University
Regarding: Central Plant
3410 Taft Boulevard

Date: July 12, 2000
Report Number: 200035007

Lab number -	Homogeneous Area Name	- Field Number -

Lab Sample #: MC-1-20 - Caulk - 1 20

Material Category: Miscellaneous Material
Homog. Area Description: Door frame caulk
Condition: Accessible
Collection Location: Collected from left side of the door in chemical storage
Asbestos Type / Percent: **Chrysotile** **2%**
Asbestos Type / Percent: **0%**

Page Number 2 of 2 of Report #CAL00051304 Analysis Lab: Crisp Analytical Lab

Lab Sample #: 22 - Caulk - 1 22

Material Category: Miscellaneous Material
Homog. Area Description: Door frame caulk
Condition: Accessible
Collection Location: Collected from right side of door in reception room
Asbestos Type / Percent: **Chrysotile** **2%**
Asbestos Type / Percent: **0%**

Page Number 3 of 3 of Report #CAL00051306 Analysis Lab: Crisp Analytical Lab

Lab Sample #: 21 - Caulk - 1 21

Material Category: Miscellaneous Material
Homog. Area Description: Door frame caulk
Condition: Accessible
Collection Location: Collected from right side of testing room door
Asbestos Type / Percent: **Chrysotile** **2%**
Asbestos Type / Percent: **0%**

Page Number 3 of 3 of Report #CAL00051306 Analysis Lab: Crisp Analytical Lab

Lab Sample #: MC-3-97 - Caulk - 3 97

Material Category: Miscellaneous Material
Homog. Area Description: Window caulking
Condition: Accessible
Collection Location: Collected from the vent window on the east wall
Asbestos Type / Percent: **Chrysotile** **0%**
Asbestos Type / Percent: **0%**
Less than 1% in the first layer

Page Number 14 of 19 of Report #CAL00041197 Analysis Lab: Crisp Analytical Lab

ESESIS and NORTH AMERICAN ANALYTICAL LABS Inc.
HOMOGENEOUS AREA REPORT

Prepared for: Midwestern State University — Page 2 of 34
Regarding: Central Plant — Date: July 12, 2000
3410 Taft Boulevard — Report Number: 200035007

Lab number	-	Homogeneous Area Name	-	Field Number	-

Lab Sample #: MC-3-96 - Caulk - 3 96

Material Category: Miscellaneous Material
Homog. Area Description: Window caulking
Condition: Accessible
Collection Location: Collected from the vent window on the second floor
Asbestos Type / Percent: **Chrysotile** **0%**
Asbestos Type / Percent: **0%**
Less than 1% in the first layer

Page Number 14 of 19 of Report #CAL00041197 Analysis Lab: Crisp Analytical Lab

Lab Sample #: 95 - Caulk - 3 95

Material Category: Miscellaneous Material
Homog. Area Description: Window caulking
Condition: Accessible
Collection Location: Collected from the vent window on the south wall
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 2 of 3 of Report #004750 Analysis Lab: Quest MicroAnalytics, Inc.

Lab Sample #: 98 - Caulk - 4 98

Material Category: Miscellaneous Material
Homog. Area Description: Pipe caulk
Condition: Accessible
Collection Location: Collected from silver drain line going through wall
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 2 of 3 of Report #004750 Analysis Lab:

Lab Sample #: MC-4-100 - Caulk - 4 100

Material Category: Miscellaneous Material
Homog. Area Description: Pipe caulk
Condition: Accessible
Collection Location: Collected from yellow line going through south wall
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 14 of 19 of Report #CAL00041197 Analysis Lab: Crisp Analytical Lab

ESESIS and NORTH AMERICAN ANALYTICAL LABS Inc.
HOMOGENEOUS AREA REPORT

Prepared for: Midwestern State University
Regarding: Central Plant
3410 Taft Boulevard

Date: July 12, 2000
Report Number: 200035007

Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: MC-4-99 - Caulk - 4 99

Material Category: Miscellaneous Material
Homog. Area Description: Pipe caulk
Condition: Accessible
Collection Location: Collected from yellow gas line going through wall
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 14 of 19 of Report #CAL00041197 Analysis Lab: Crisp Analytical Lab

Lab Sample #: 8 - Ceiling Tile - 1 8

Material Category: Miscellaneous Material
Homog. Area Description: 2' x 4' white Ceiling tile with fractured pattern
Condition: Unaccessible
Collection Location: Collected from wall #1 in testing room
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 1 of 3 of Report #CAL00051306 Analysis Lab: Crisp Analytical Lab

Lab Sample #: MCT-1-6 - Ceiling Tile - 1 6

Material Category: Miscellaneous Material
Homog. Area Description: 2' x 4' white Ceiling tile with fractured pattern
Condition: Unaccessible
Collection Location: Collected from wall #1, break room
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 1 of 2 of Report #CAL00051304 Analysis Lab: Crisp Analytical Lab

Lab Sample #: 7 - Ceiling Tile - 1 7

Material Category: Miscellaneous Material
Homog. Area Description: 2' x 4' white Ceiling tile with fractured pattern
Condition: Unaccessible
Collection Location: Collected from wall #1 in chemical storage
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 1 of 3 of Report #CAL00051306 Analysis Lab: Crisp Analytical Lab

ESESIS and NORTH AMERICAN ANALYTICAL LABS Inc.
HOMOGENEOUS AREA REPORT

Prepared for: Midwestern State University
Regarding: Central Plant
3410 Taft Boulevard

Date: July 12, 2000
Report Number: 200035007

Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: MCT-2-9 - Ceiling Tile - 2 9

Material Category: Miscellaneous Material
Homog. Area Description: Ceiling tile 2x4
Condition: Unaccessible
Collection Location: Collected from office #103 at room center
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 1 of 2 of Report #CAL00051304 Analysis Lab: Crisp Analytical Lab

Lab Sample #: 10 - Ceiling Tile - 2 10

Material Category: Miscellaneous Material
Homog. Area Description: Ceiling tile 2x4
Condition: Unaccessible
Collection Location: Collected from office 103, near wall 2
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 2 of 3 of Report #CAL00051306 Analysis Lab: Crisp Analytical Lab

Lab Sample #: 11 - Ceiling Tile - 2 11

Material Category: Miscellaneous Material
Homog. Area Description: Ceiling tile 2x4
Condition: Unaccessible
Collection Location: Collected from office 103, near wall 2
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 2 of 3 of Report #CAL00051306 Analysis Lab: Crisp Analytical Lab

Lab Sample #: 27 - Elbow Wrap - 1 27

Material Category: Thermal System Insulation
Homog. Area Description: White Elbow wrap (fitting) insulation
Condition: Accessible
Collection Location: Collected from above the drop ceiling in the control office wall #3.
Asbestos Type / Percent: **Chrysotile** **2%**
Asbestos Type / Percent: **0%**

Page Number 1 of 19 of Report #CAL0004197 Analysis Lab: Crisp Analytical Lab

ESESIS and NORTH AMERICAN ANALYTICAL LABS Inc.
HOMOGENEOUS AREA REPORT

Prepared for: Midwestern State University
Regarding: Central Plant
3410 Taft Boulevard

Date: July 12, 2000
Report Number: 200035007

Lab number -	Homogeneous Area Name	- Field Number -

Lab Sample #: 26 - Elbow Wrap - 1 **26**

Material Category: Thermal System Insulation
Homog. Area Description: White Elbow wrap (fitting) insulation
Condition: Accessible
Collection Location: Collected from above the drop ceiling in the control office wall #3.

Asbestos Type / Percent: **Chrysotile** **15**
Asbestos Type / Percent: **0%**

Page Number 1 of 3 of Report #004750 Analysis Lab: Quest MicroAnalytics, Inc.

Lab Sample #: 28 - Elbow Wrap - 1 **28**

Material Category: Thermal System Insulation
Homog. Area Description: White Elbow wrap (fitting) insulation
Condition: Accessible
Collection Location: Collected from above the drop ceiling in the control office wall #3.

Asbestos Type / Percent: **Chrysotile** **3%**
Asbestos Type / Percent: **0%**

Page Number 1 of 19 of Report #CAL0004197 Analysis Lab: Crisp Analytical Lab

Lab Sample #: 34 - Elbow Wrap - 2 **34**

Material Category: Thermal System Insulation
Homog. Area Description: Pipe Elbow Fittings, Blue
Condition: Accessible
Collection Location: Collected from the chiller #1, at 1st elbow.

Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 2 of 19 of Report #CAL00041197 Analysis Lab: Crisp Analytical Lab

ESESIS and NORTH AMERICAN ANALYTICAL LABS Inc.
HOMOGENEOUS AREA REPORT

Prepared for: Midwestern State University
Regarding: Central Plant
3410 Taft Boulevard

Date: July 12, 2000
Report Number: 200035007

	Lab number -	Homogeneous Area Name	-	Field Number -
Lab Sample #:	32 -	Elbow Wrap	- 2	32

Material Category: Thermal System Insulation
Homog. Area Description: Pipe Elbow Fittings, Blue
Condition: Accessible
Collection Location: Collected from a fitting on chiller #5, next to the yellow stairs at the 1st elbow.

Asbestos Type / Percent: Chrysotile 20
Asbestos Type / Percent: 0%

Page Number 1 of 3 of Report #004750 Analysis Lab: Quest MicroAnalytics, Inc.

	Lab number -	Homogeneous Area Name	-	Field Number -
Lab Sample #:	33 -	Elbow Wrap	- 2	33

Material Category: Thermal System Insulation
Homog. Area Description: Pipe Elbow Fittings, Blue
Condition: Accessible
Collection Location: Collected from the chiller #3, at 1st elbow.

Asbestos Type / Percent: No Asbestos Detected 0%
Asbestos Type / Percent: 0%

Page Number 2 of 19 of Report #CAL00041197 Analysis Lab: Crisp Analytical Lab

	Lab number -	Homogeneous Area Name	-	Field Number -
Lab Sample #:	43 -	Elbow Wrap	- 3	43

Material Category: Thermal System Insulation
Homog. Area Description: Elbow fitting insulation, Blue
Condition: Accessible
Collection Location: Collected from a fitting on the 2nd floor south wall by window next to valve.

Asbestos Type / Percent: Chrysotile 13
Asbestos Type / Percent: Chrysotile 50

Page Number 4 of 19 of Report #CAL00041197 Analysis Lab: Crisp Analytical Lab

ESESIS and NORTH AMERICAN ANALYTICAL LABS Inc.
HOMOGENEOUS AREA REPORT

Prepared for: Midwestern State University
Regarding: Central Plant
3410 Taft Boulevard

Date: July 12, 2000
Report Number: 200035007

Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: 42 - Elbow Wrap - 3 42

Material Category: Thermal System Insulation
Homog. Area Description: Elbow fitting insulation, Blue
Condition: Accessible
Collection Location: Collected from fitting on the 2nd floor south wall by window above head.

Asbestos Type / Percent: Chrysotile 12
Asbestos Type / Percent: Chrysotile 52

Page Number 4 of 19 of Report #CAL00041197 Analysis Lab: Crisp Analytical Lab

Lab Sample #: 41 - Elbow Wrap - 3 41

Material Category: Thermal System Insulation
Homog. Area Description: Elbow fitting insulation, Blue
Condition: Accessible
Collection Location: Collected from a fitting at the west wall above the door on the elbow 20' up.

Asbestos Type / Percent: No Asbestos Detected 0%
Asbestos Type / Percent: 0%

Page Number 1 of 3 of Report #004750 Analysis Lab: Quest MicroAnalytics, Inc.

Lab Sample #: 47 - Elbow Wrap - 4 47

Material Category: Thermal System Insulation
Homog. Area Description: Pipe insulation, Green
Condition: Accessible
Collection Location: Collected from elbow on chilled water tank

Asbestos Type / Percent: Chrysotile 25
Asbestos Type / Percent: 0%

Page Number 1 of 3 of Report #004750 Analysis Lab: Quest MicroAnalytics, Inc.

ESESIS and NORTH AMERICAN ANALYTICAL LABS Inc.
HOMOGENEOUS AREA REPORT

Prepared for: Midwestern State University — Page 8 of 34
Regarding: Central Plant — Date: July 12, 2000
3410 Taft Boulevard — Report Number: 200035007

Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: EW-4-48 - Elbow Wrap - 4 48

Material Category: Thermal System Insulation
Homog. Area Description: Pipe insulation, Green
Condition: Accessible
Collection Location: Collected from elbow on north wall near make up tank
Asbestos Type / Percent: **Chrysotile 15**
Asbestos Type / Percent: **Chrysotile 0%**
Less than 1% chrysotile in second layer

Page Number 5 of 19 of Report #CAL00041197 Analysis Lab: Crisp Analytical Lab

Lab Sample #: EW-4-49 - Elbow Wrap - 4 49

Material Category: Thermal System Insulation
Homog. Area Description: Pipe insulation, Green
Condition: Accessible
Collection Location: Collected from elbow on south wall near floor by valve
Asbestos Type / Percent: **Chrysotile 58**
Asbestos Type / Percent: **Chrysotile 30**

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Lab Sample #: EW-5-57 - Elbow Wrap - 5 57

Material Category: Thermal System Insulation
Homog. Area Description: Elbow insulation
Condition: Accessible
Collection Location: Collected from Above boiler #3.
Asbestos Type / Percent: **Chrysotile 30**
Asbestos Type / Percent: **Chrysotile 0%**
Less than 1%, second layer

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Lab Sample #: EW-5-58 - Elbow Wrap - 5 58

Material Category: Thermal System Insulation
Homog. Area Description: Elbow insulation
Condition: Accessible
Collection Location: Collected at large gate valve in front of boiler #3.
Asbestos Type / Percent: **Chrysotile 35**
Asbestos Type / Percent: **Chrysotile 10**

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3410 Taft Boulevard

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Report Number: 200035007

Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: 56 - Elbow Wrap - 5 56

Material Category: Thermal System Insulation
Homog. Area Description: Elbow insulation
Condition: Accessible
Collection Location: Collected from large red elbow above boiler #2.
Asbestos Type / Percent: **Chrysotile** **30**
Asbestos Type / Percent: **0%**

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Lab Sample #: EW-6-64 - Elbow Wrap - 6 64

Material Category: Thermal System Insulation
Homog. Area Description: Elbow insulation
Condition: Accessible
Collection Location: Elbow coming from #61
Asbestos Type / Percent: **Chrysotile** **14**
Asbestos Type / Percent: **Chrysotile** **0%**
Less than 1% chrysotile in the second layer

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Lab Sample #: 62 - Elbow Wrap - 6 62

Material Category: Thermal System Insulation
Homog. Area Description: Elbow insulation
Condition: Accessible
Collection Location: Collected from orange elbow at 2 ton hoist
Asbestos Type / Percent: **Chrysotile** **60**
Asbestos Type / Percent: **0%**

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Lab Sample #: EW-6-63 - Elbow Wrap - 6 63

Material Category: Thermal System Insulation
Homog. Area Description: Elbow insulation
Condition: Accessible
Collection Location: Collected from lower orange elbow at 2 ton hoist
Asbestos Type / Percent: **Chrysotile** **49**
Asbestos Type / Percent: **Chrysotile** **3%**

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Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: EW-7-70 - Elbow Wrap - 7 70

Material Category: Thermal System Insulation
Homog. Area Description: Elbow insulation, gray
Condition: Accessible
Collection Location: Collected from the pipe run elbow near the center aisle in the machine shop next to the loudspeakers

Asbestos Type / Percent: Chrysotile 18
Asbestos Type / Percent: Chrysotile 0%
Less than 1% chrysotile in the second layer

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Lab Sample #: EW-7-69 - Elbow Wrap - 7 69

Material Category: Thermal System Insulation
Homog. Area Description: Elbow insulation, gray
Condition: Accessible
Collection Location: Collected from the same area as #68

Asbestos Type / Percent: Chrysotile 18
Asbestos Type / Percent: 0%

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Lab Sample #: 68 - Elbow Wrap - 7 68

Material Category: Thermal System Insulation
Homog. Area Description: Elbow insulation, gray
Condition: Accessible
Collection Location: Collected from gray elbow at the right side of the 2-ton hoist

Asbestos Type / Percent: Chrysotile 35
Asbestos Type / Percent: 0%

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Lab number -	Homogeneous Area Name	-	Field Number -	
Lab Sample #: EW-8-76	- Elbow Wrap	-	8	76

Material Category: Thermal System Insulation
Homog. Area Description: Elbow insulation, white, tan
Condition: Accessible
Collection Location: Collected from boiler #2.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: EW-8-75	- Elbow Wrap	-	8	75

Material Category: Thermal System Insulation
Homog. Area Description: Elbow insulation, white, tan
Condition: Accessible
Collection Location: Collected from elbow at boiler #1.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: 74	- Elbow Wrap	-	8	74

Material Category: Thermal System Insulation
Homog. Area Description: Elbow insulation, white, tan
Condition: Accessible
Collection Location: Collected from elbow at boiler #1.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: EW-9-81	- Elbow Wrap	-	9	81

Material Category: Thermal System Insulation
Homog. Area Description: Elbow insulation, white, tan, old
Condition: Accessible
Collection Location: Collected from elbow on boiler #1.
Asbestos Type / Percent: **Chrysotile** **78**
Asbestos Type / Percent: **Chrysotile** **5%**

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Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: 80 - Elbow Wrap - 9 80

Material Category: Thermal System Insulation
Homog. Area Description: Elbow insulation, white, tan, old
Condition: Accessible
Collection Location: Collected from elbow on boiler #1.
Asbestos Type / Percent: **Chrysotile** **60**
Asbestos Type / Percent: **0%**

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Lab Sample #: EW-9-82 - Elbow Wrap - 9 82

Material Category: Thermal System Insulation
Homog. Area Description: Elbow insulation, white, tan, old
Condition: Accessible
Collection Location: Collected from elbow on boiler #2.
Asbestos Type / Percent: **Chrysotile** **74**
Asbestos Type / Percent: **0%**

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Lab Sample #: MFC-1-25 - Flex Connector - 1 25

Material Category: Miscellaneous Material
Homog. Area Description: Vibration boot
Condition: Unaccessible
Collection Location: Collected from above south door in plant
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: MFC-1-24 - Flex Connector - 1 24

Material Category: Miscellaneous Material
Homog. Area Description: Vibration boot
Condition: Unaccessible
Collection Location: Collected from above south door in plant
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: 23 - Flex Connector - 1 23

Material Category: Miscellaneous Material
Homog. Area Description: Vibration boot
Condition: Unaccessible
Collection Location: Collected from above south door in plant
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: MO-1-17 - Other Miscellaneous - 1 17

Material Category: Miscellaneous Material
Homog. Area Description: Blue cove base
Condition: Unaccessible
Collection Location: Collected from office #103 entry
Asbestos Type / Percent: **Chrysotile** **0%**
Asbestos Type / Percent: **0%**
Less than 1% chrysotile

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Lab Sample #: 18 - Other Miscellaneous - 1 18

Material Category: Miscellaneous Material
Homog. Area Description: Blue cove base
Condition: Unaccessible
Collection Location: Collected from conference room entry
Asbestos Type / Percent: **Anthophyllite** **0%**
Asbestos Type / Percent: **0%**
Less than 1% anthophyllite

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Lab Sample #: 19 - Other Miscellaneous - 1 19

Material Category: Miscellaneous Material
Homog. Area Description: Blue cove base
Condition: Unaccessible
Collection Location: Collected from conference room, wall #4
Asbestos Type / Percent: **Anthophyllite** **0%**
Asbestos Type / Percent: **0%**
Less than 1% anthophyllite

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Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: MO-2-106 - Other Miscellaneous - **2** **106**

Material Category: Miscellaneous Material
Homog. Area Description: Cove base, green
Condition: Accessible
Collection Location: Collected from west exterior wall, right side of junction box
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: MO-2-105 - Other Miscellaneous - **2** **105**

Material Category: Miscellaneous Material
Homog. Area Description: Cove base, green
Condition: Accessible
Collection Location: Collected from west exterior wall under fire exit sign
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: 104 - Other Miscellaneous - **2** **104**

Material Category: Miscellaneous Material
Homog. Area Description: Cove base, green
Condition: Accessible
Collection Location: Collected from west exterior wall of break room
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: 15 - Other Surfacing - **1** **15**

Material Category: Surfacing Material
Homog. Area Description: Floor laminate
Condition: Accessible
Collection Location: Collected from mezzanine near chiller #1
Asbestos Type / Percent: **Chrysotile** **0%**
Asbestos Type / Percent: **0%**
Less than 1% chrysotile

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Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: 16 - Other Surfacing - 1 16

Material Category: Surfacing Material
Homog. Area Description: Floor laminate
Condition: Accessible
Collection Location: Collected from mezzanine at door to lockers
Asbestos Type / Percent: **Chrysotile 0%**
Asbestos Type / Percent: **0%**
Less than 1% chrysotile

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Lab Sample #: 13 - Other Surfacing - 1 13

Material Category: Surfacing Material
Homog. Area Description: Floor laminate
Condition: Accessible
Collection Location: Collected from front entry door
Asbestos Type / Percent: **Chrysotile 0%**
Asbestos Type / Percent: **0%**
Less than 1% chrysotile

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Lab Sample #: 14 - Other Surfacing - 1 14

Material Category: Surfacing Material
Homog. Area Description: Floor laminate
Condition: Accessible
Collection Location: Collected from first floor wall #3
Asbestos Type / Percent: **Chrysotile 0%**
Asbestos Type / Percent: **0%**
Less than 1% chrysotile

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Lab Sample #: SO-1-12 - Other Surfacing - 1 12

Material Category: Surfacing Material
Homog. Area Description: Floor laminate
Condition: Accessible
Collection Location: Collected from plant area near chiller #4
Asbestos Type / Percent: **No Asbestos Detected 0%**
Asbestos Type / Percent: **0%**

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Lab number -	Homogeneous Area Name	-	Field Number -
Lab Sample #: 36	- Other TSI	- 1	36

Material Category: Thermal System Insulation
Homog. Area Description: Valve Insulation, Blue
Condition: Accessible
Collection Location: Collected from the chiller #3 at 1st valve.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: 37	- Other TSI	- 1	37

Material Category: Thermal System Insulation
Homog. Area Description: Valve Insulation, Blue
Condition: Accessible
Collection Location: Collected from the chiller #1 at 1st valve.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: 35	- Other TSI	- 1	35

Material Category: Thermal System Insulation
Homog. Area Description: Valve Insulation, Blue
Condition: Accessible
Collection Location: Collected from the chiller #5 at 1st valve.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: 44	- Other TSI	- 2	44

Material Category: Thermal System Insulation
Homog. Area Description: Blue insulation of connectors, old material
Condition: Accessible
Collection Location: Collected from water pump #1 below valve on supply line.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: 46 - Other TSI - 2 46

Material Category: Thermal System Insulation
Homog. Area Description: Blue insulation of connectors, old material
Condition: Accessible
Collection Location: Collected from the water pump #3 below valve on supply line.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: 45 - Other TSI - 2 45

Material Category: Thermal System Insulation
Homog. Area Description: Blue insulation of connectors, old material
Condition: Accessible
Collection Location: Collected from the water pump #2 below valve on supply line.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: 83 - Other TSI - 3 83

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from stack of boiler #1.
Asbestos Type / Percent: **Chrysotile** **60**
Asbestos Type / Percent: **0%**

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Lab number -	Homogeneous Area Name	-	Field Number -	
Lab Sample #: TO-3-85	- Other TSI	-	3	85

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from stack of boiler #3.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: TO-3-84	- Other TSI	-	3	84

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from stack of boiler #2.
Asbestos Type / Percent: **Chrysotile** **20**
Asbestos Type / Percent: **Chrysotile** **10**

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Lab Sample #: 86	- Other TSI	-	4	86

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from front drain plug on boiler #1.
Asbestos Type / Percent: **Chrysotile** **25**
Asbestos Type / Percent: **0%**

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Lab Sample #: TO-4-88	- Other TSI	-	4	88

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from aft drain plug on #2.
Asbestos Type / Percent: **Chrysotile** **36**
Asbestos Type / Percent: **Chrysotile** **0%**
Less than 1% chrysotile in the first layer

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Lab number-	Homogeneous Area Name	-	Field Number -	
Lab Sample #: TO-4-87	- Other TSI	-	4	87

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from front drain plug on boiler #2.
Asbestos Type / Percent: **Chrysotile** **4%**
Asbestos Type / Percent: **Chrysotile** **28**

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Lab Sample #: TO-5-114	- Other TSI	-	5	114

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from the aft end cap of chiller #5.
Asbestos Type / Percent: **Chrysotile** **2%**
Asbestos Type / Percent: **Chrysotile** **48**
2% chrysotile also detected in the third layer.

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Lab Sample #: TO-5-115	- Other TSI	-	5	115

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from the middle cylinder of chiller #5.
Asbestos Type / Percent: **Chrysotile** **26**
Asbestos Type / Percent: **Chrysotile** **0%**
less than 1% chrysotile detected in the second and third layers

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Lab Sample #: 113	- Other TSI	-	5	113

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from the end cap of chiller #5.
Asbestos Type / Percent: **Chrysotile** **30**
Asbestos Type / Percent: **0%**

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Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: TO-6-118 - Other TSI - 6 118

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from the chiller components on chiller #5
Asbestos Type / Percent: **Chrysotile** **32**
Asbestos Type / Percent: **Chrysotile** **0%**
Less than 1% asbestos was found in the first layer

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Lab Sample #: 116 - Other TSI - 6 116

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from the chiller components on chiller #5.
Asbestos Type / Percent: **Chrysotile** **30**
Asbestos Type / Percent: **0%**

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Lab Sample #: TO-6-117 - Other TSI - 6 117

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from the chiller components on chiller #5.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: 119 - Other TSI - 7 119

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from the end cap
Asbestos Type / Percent: **Chrysotile** **35**
Asbestos Type / Percent: **0%**

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Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: TO-7-120 - Other TSI - 7 **120**

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from the middle of cylinder.
Asbestos Type / Percent: **Chrysotile** **2%**
Asbestos Type / Percent: **Chrysotile** **27**
Less than 1% in the first layer

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Lab Sample #: TO-7-121 - Other TSI - 7 **121**

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from the rear end cap of cylinder.
Asbestos Type / Percent: **Chrysotile** **2%**
Asbestos Type / Percent: **Chrysotile** **34**

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Lab Sample #: TO-8-123 - Other TSI - 8 **123**

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from fitting at cylinder
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: TO-8-124 - Other TSI - 8 **124**

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from elbow fitting at cylinder
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: 122 - Other TSI - 8 122

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from fitting at compressor
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: TO-8-126 - Other TSI - 9 126

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from the damage at middle of cylinder
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: TO-8-127 - Other TSI - 9 127

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from the damage under the big daddy rod sign
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: 125 - Other TSI - 9 125

Material Category: Thermal System Insulation
Homog. Area Description: Insulation
Condition: Accessible
Collection Location: Collected from the damage at end cap
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: 29 - Pipe Insulation - 1 29

Material Category: Thermal System Insulation
Homog. Area Description: Chilled water pipe insulation, Blue
Condition: Accessible
Collection Location: Collected from the chiller #5, blue supply line.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: 30 - Pipe Insulation - 1 30

Material Category: Thermal System Insulation
Homog. Area Description: Chilled water pipe insulation, Blue
Condition: Accessible
Collection Location: Collected from the chiller #3, blue supply line.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: 31 - Pipe Insulation - 1 31

Material Category: Thermal System Insulation
Homog. Area Description: Chilled water pipe insulation, Blue
Condition: Accessible
Collection Location: Collected from the chiller #3, blue supply line.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: 39 - Pipe Insulation - 2 39

Material Category: Thermal System Insulation
Homog. Area Description: Pipe Lagging Insulation, Blue
Condition: Accessible
Collection Location: Collected from the blue pipe run insulation, old material, at water pump #2 above valve on supply line.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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ESESIS and NORTH AMERICAN ANALYTICAL LABS Inc.

HOMOGENEOUS AREA REPORT

Prepared for: Midwestern State University
Regarding: Central Plant
3410 Taft Boulevard

Date: July 12, 2000
Report Number: 200035007

Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: 38 - Pipe Insulation - 2 38

Material Category: Thermal System Insulation
Homog. Area Description: Pipe Lagging Insulation, Blue
Condition: Accessible
Collection Location: Collected from the blue pipe run insulation, old material, at water pump #1 above valve on supply line.

Asbestos Type / Percent: No Asbestos Detected 0%
Asbestos Type / Percent: 0%

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Lab Sample #: 40 - Pipe Insulation - 2 40

Material Category: Thermal System Insulation
Homog. Area Description: Pipe Lagging Insulation, Blue
Condition: Accessible
Collection Location: Collected from the blue pipe run insulation, old ,material, at pump #3 above the valve on supply line.

Asbestos Type / Percent: No Asbestos Detected 0%
Asbestos Type / Percent: 0%

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Lab Sample #: 50 - Pipe Insulation - 3 50

Material Category: Thermal System Insulation
Homog. Area Description: Pipe insulation
Condition: Accessible
Collection Location: Collected from north wall under city water label

Asbestos Type / Percent: No Asbestos Detected 0%
Asbestos Type / Percent: 0%

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ESESIS and NORTH AMERICAN ANALYTICAL LABS Inc.
HOMOGENEOUS AREA REPORT

Prepared for: Midwestern State University
Regarding: Central Plant
3410 Taft Boulevard

Date: July 12, 2000
Report Number: 200035007

Lab number -	Homogeneous Area Name	-	Field Number -	
Lab Sample #: PR-3-51	- Pipe Insulation	-	3	51

Material Category: Thermal System Insulation
Homog. Area Description: Pipe insulation
Condition: Accessible
Collection Location: Collected from north wall under water softener
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: PR-3-52	- Pipe Insulation	-	3	52

Material Category: Thermal System Insulation
Homog. Area Description: Pipe insulation
Condition: Accessible
Collection Location: Collected from east wall next to control room door
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: PR-4-54	- Pipe Insulation	-	4	54

Material Category: Thermal System Insulation
Homog. Area Description: Pipe insulation
Condition: Accessible
Collection Location: Collected from Boiler #2.
Asbestos Type / Percent: **Chrysotile** **40**
Asbestos Type / Percent: **Chrysotile** **0%**
Second layer less than 1% Chrysotile

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Lab Sample #: 53	- Pipe Insulation	-	4	53

Material Category: Thermal System Insulation
Homog. Area Description: Pipe insulation
Condition: Accessible
Collection Location: Collected from Boiler #1.
Asbestos Type / Percent: **Chrysotile** **30**
Asbestos Type / Percent: **0%**

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3410 Taft Boulevard

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Report Number: 200035007

Lab number -	Homogeneous Area Name	-	Field Number -	
Lab Sample #: PR-4-55	- Pipe Insulation	-	4	55

Material Category: Thermal System Insulation
Homog. Area Description: Pipe insulation
Condition: Accessible
Collection Location: Collected from Boiler #3
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: 59	- Pipe Insulation	-	5	59

Material Category: Thermal System Insulation
Homog. Area Description: Orange Pipe run insulation
Condition: Accessible
Collection Location: Orange pipe run just inside overhead door
Asbestos Type / Percent: **Chrysotile** **30**
Asbestos Type / Percent: **0%**

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Lab Sample #: PR-5-60	- Pipe Insulation	-	5	60

Material Category: Thermal System Insulation
Homog. Area Description: Orange Pipe run insulation
Condition: Accessible
Collection Location: Collected from orange pipe run at overhead door
Asbestos Type / Percent: **Chrysotile** **41**
Asbestos Type / Percent: **Chrysotile** **0%**
Less than 1% chrysotile in the second layer

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Lab Sample #: PR-5-61	- Pipe Insulation	-	5	61

Material Category: Thermal System Insulation
Homog. Area Description: Orange Pipe run insulation
Condition: Accessible
Collection Location: Collected from orange pipe run going into carrier unit at overhead door
Asbestos Type / Percent: **Chrysotile** **45**
Asbestos Type / Percent: **Chrysotile** **0%**
Less than 1% chrysotile in the second layer

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Date: July 12, 2000
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Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: PR-6-67 - Pipe Insulation - 6 67

Material Category: Thermal System Insulation
Homog. Area Description: Pipe insulation
Condition: Accessible
Collection Location: Collected from the pipe run at the center of the main aisle
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: PR-6-66 - Pipe Insulation - 6 66

Material Category: Thermal System Insulation
Homog. Area Description: Pipe insulation
Condition: Accessible
Collection Location: Collected from the same area as 65
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: 65 - Pipe Insulation - 6 65

Material Category: Thermal System Insulation
Homog. Area Description: Pipe insulation
Condition: Accessible
Collection Location: Collected from the gray pipe at the side of the 2-ton hoist
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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HOMOGENEOUS AREA REPORT

Prepared for: Midwestern State University
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3410 Taft Boulevard

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Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: 71 - Pipe Insulation - 7 71

Material Category: Thermal System Insulation
Homog. Area Description: Pipe run insulation, white or tan
Condition: Accessible
Collection Location: Collected from pipe run at boiler #1.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 2 of 3 of Report #004750 Analysis Lab: Quest MicroAnalytics, Inc.

Lab Sample #: PR-7-73 - Pipe Insulation - 7 73

Material Category: Thermal System Insulation
Homog. Area Description: Pipe run insulation, white or tan
Condition: Accessible
Collection Location: Collected from the pipe run coming from boiler #2.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: PR-7-72 - Pipe Insulation - 7 72

Material Category: Thermal System Insulation
Homog. Area Description: Pipe run insulation, white or tan
Condition: Accessible
Collection Location: Collected from the pipe run coming from boiler #1.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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Lab Sample #: 77 - Pipe Insulation - 8 77

Material Category: Thermal System Insulation
Homog. Area Description: Pipe insulation
Condition: Accessible
Collection Location: Collected from tan pipe run at boiler #1.
Asbestos Type / Percent: **Chrysotile** **60**
Asbestos Type / Percent: **0%**

Page Number 2 of 3 of Report #004750 Analysis Lab: Quest MicroAnalytics, Inc.

Lab number -	Homogeneous Area Name	-	Field Number -	
Lab Sample #: PR-8-78	- Pipe Insulation	-	8	78

Material Category: Thermal System Insulation
Homog. Area Description: Pipe insulation
Condition: Accessible
Collection Location: Collected from boiler #1.
Asbestos Type / Percent: **Chrysotile** **24**
Asbestos Type / Percent: **Chrysotile** **0%**
Less than 1% chrysotile in the second layer

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Lab number -	Homogeneous Area Name	-	Field Number -	
Lab Sample #: PR-8-79	- Pipe Insulation	-	8	79

Material Category: Thermal System Insulation
Homog. Area Description: Pipe insulation
Condition: Accessible
Collection Location: Collected from boiler #1.
Asbestos Type / Percent: **Chrysotile** **35**
Asbestos Type / Percent: **Chrysotile** **2%**

Page Number 11 of 19 of Report #CAL00041197 Analysis Lab: Crisp Analytical Lab

Lab number -	Homogeneous Area Name	-	Field Number -	
Lab Sample #: TI-1-90	- Tank Insulation	-	1	90

Material Category: Thermal System Insulation
Homog. Area Description: Tank insulation
Condition: Accessible
Collection Location: Collected from the tank right of boiler #1.
Asbestos Type / Percent: **Chrysotile** **2%**
Asbestos Type / Percent: **Chrysotile** **40**

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Lab number -	Homogeneous Area Name	-	Field Number -	
Lab Sample #: TI-1-91	- Tank Insulation	-	1	91

Material Category: Thermal System Insulation
Homog. Area Description: Tank insulation
Condition: Accessible
Collection Location: Collected from the white tank on the platform right of boiler #1.
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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HOMOGENEOUS AREA REPORT

Prepared for: Midwestern State University
Regarding: Central Plant
3410 Taft Boulevard

Date: July 12, 2000
Report Number: 200035007

Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: 89 - Tank Insulation - 1 89

Material Category: Thermal System Insulation
Homog. Area Description: Tank insulation
Condition: Accessible
Collection Location: Collected from the tank right of boiler #1.
Asbestos Type / Percent: **Chrysotile** **25**
Asbestos Type / Percent: **0%**

Page Number 2 of 3 of Report #004750 Analysis Lab: Quest MicroAnalytics, Inc.

Lab Sample #: TI-2-94 - Tank Insulation - 2 94

Material Category: Thermal System Insulation
Homog. Area Description: Tank Insulation
Condition: Accessible
Collection Location: Collected from the blue water tank
Asbestos Type / Percent: **Chrysotile** **3%**
Asbestos Type / Percent: **0%**

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Lab Sample #: 92 - Tank Insulation - 2 92

Material Category: Thermal System Insulation
Homog. Area Description: Tank Insulation
Condition: Accessible
Collection Location: Collected from the blue water tank
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 2 of 3 of Report #004750 Analysis Lab: Quest MicroAnalytics, Inc.

Lab Sample #: TI-2-93 - Tank Insulation - 2 93

Material Category: Thermal System Insulation
Homog. Area Description: Tank Insulation
Condition: Accessible
Collection Location: Collected from the blue water tank
Asbestos Type / Percent: **Chrysotile** **2%**
Asbestos Type / Percent: **Chrysotile** **0%**
Less than 1% chrysotile in the first layer

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HOMOGENEOUS AREA REPORT

Prepared for: Midwestern State University
Regarding: Central Plant
3410 Taft Boulevard

Date: July 12, 2000
Report Number: 200035007

	Lab number -	Homogeneous Area Name	-	Field Number -	
Lab Sample #:	TI-3-109	- Tank Insulation	-	3	109

Material Category: Thermal System Insulation
Homog. Area Description: Tank insulation
Condition: Accessible
Collection Location: Collected from right end cap of tank
Asbestos Type / Percent: **Chrysotile** **3%**
Asbestos Type / Percent: **0%**

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Lab Sample #:	TI-3-108	- Tank Insulation	-	3	108

Material Category: Thermal System Insulation
Homog. Area Description: Tank insulation
Condition: Accessible
Collection Location: Collected from middle of tank
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 15 of 19 of Report #CAL00041197 Analysis Lab: Crisp Analytical Lab

Lab Sample #:	107	- Tank Insulation	-	3	107

Material Category: Thermal System Insulation
Homog. Area Description: Tank insulation
Condition: Accessible
Collection Location: Collected from left end cap of tank
Asbestos Type / Percent: **Chrysotile** **10**
Asbestos Type / Percent: **0%**

Page Number 2 of 3 of Report #004750 Analysis Lab: Quest MicroAnalytics, Inc.

Lab Sample #:	TI-4-111	- Tank Insulation	-	4	111

Material Category: Thermal System Insulation
Homog. Area Description: Tank insulation
Condition: Accessible
Collection Location: Collected from middle of tank
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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HOMOGENEOUS AREA REPORT

Prepared for: Midwestern State University
Regarding: Central Plant
3410 Taft Boulevard

Date: July 12, 2000
Report Number: 200035007

Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: 110 - Tank Insulation - 4 110

Material Category: Thermal System Insulation
Homog. Area Description: Tank insulation
Condition: Accessible
Collection Location: Collected from left end cap of tank
Asbestos Type / Percent: **Chrysotile** **10**
Asbestos Type / Percent: **0%**

Page Number 3 of 3 of Report #004750 Analysis Lab: Quest MicroAnalytics, Inc.

Lab Sample #: TI-4-112 - Tank Insulation - 4 112

Material Category: Thermal System Insulation
Homog. Area Description: Tank insulation
Condition: Accessible
Collection Location: Collected from right end cap of tank
Asbestos Type / Percent: **Chrysotile** **4%**
Asbestos Type / Percent: **Chrysotile** **2%**

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Lab Sample #: SMT-1-1 - Texturizer - 1 1

Material Category: Surfacing Material
Homog. Area Description: Wall texturizer
Condition: Accessible
Collection Location: Collected from Break room above door
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 1 of 2 of Report #CAL00051304 Analysis Lab: Crisp Analytical Lab

Lab Sample #: 3 - Texturizer - 1 3

Material Category: Surfacing Material
Homog. Area Description: Wall texturizer
Condition: Accessible
Collection Location: Collected from testing room wall #1
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 1 of 3 of Report #CAL00051306 Analysis Lab: Crisp Analytical Lab

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HOMOGENEOUS AREA REPORT

Prepared for: Midwestern State University — Page 33 of 34
Regarding: Central Plant — Date: July 12, 2000
3410 Taft Boulevard — Report Number: 200035007

Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: 5 - Texturizer - 1 5

Material Category: Surfacing Material
Homog. Area Description: Wall texturizer
Condition: Accessible
Collection Location: Collected from drafting room wall #1
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 1 of 3 of Report #CAL00051306 Analysis Lab: Crisp Analytical Lab

Lab Sample #: 2 - Texturizer - 1 2

Material Category: Surfacing Material
Homog. Area Description: Wall texturizer
Condition: Accessible
Collection Location: Collected from break room wall #1
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 1 of 3 of Report #CAL00051306 Analysis Lab: Crisp Analytical Lab

Lab Sample #: 4 - Texturizer - 1 4

Material Category: Surfacing Material
Homog. Area Description: Wall texturizer
Condition: Accessible
Collection Location: Collected from mezzanine room wall #2
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 1 of 3 of Report #CAL00051306 Analysis Lab: Crisp Analytical Lab

Lab Sample #: SMT-2-102 - Texturizer - 2 102

Material Category: Surfacing Material
Homog. Area Description: Texture, wall
Condition: Accessible
Collection Location: From west wall under fire extinguishing sign
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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ESESIS and NORTH AMERICAN ANALYTICAL LABS Inc.
HOMOGENEOUS AREA REPORT

Prepared for: Midwestern State University
Regarding: Central Plant
3410 Taft Boulevard

Date: July 12, 2000
Report Number: 200035007

Lab number -	Homogeneous Area Name	-	Field Number -

Lab Sample #: 101 - Texturizer - 2 101

Material Category: Surfacing Material
Homog. Area Description: Texture, wall
Condition: Accessible
Collection Location: Collected from exterior north break room wall
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

Page Number 2 of 3 of Report #004750 Analysis Lab: Quest MicroAnalytics, Inc.

Lab Sample #: SMT-2-103 - Texturizer - 2 103

Material Category: Surfacing Material
Homog. Area Description: Texture, wall
Condition: Accessible
Collection Location: Collected from west wall at junction box
Asbestos Type / Percent: **No Asbestos Detected** **0%**
Asbestos Type / Percent: **0%**

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BULK SAMPLE REPORT

QUEST
MicroAnalytics, Inc.
2530 Electronic Lane, Suite 712
Dallas, Texas 75220-1229
Tel 214.351.4441 Fax 214.351.4487

PLM REPORT

NVLAP Lab No. 200249
TDH License No.30-0218

Client: Midwestern State University
Project: Central Plant
Project No.: ACM-2000-01

Request No.: 004750
Report Date: 5/3/00
Sample Date: 4/26/00

Identification: Polarized Light Microscopy/Dispersion Staining (PLM/DS)

Test Method: Method 40 CFR, Ch. 1, Part 763, Subpart F, Appendix A

On 5/3/00, 35 bulk material samples were submitted by Charles Thorn of Midwestern State University for PLM/DS analysis. The results are outlined below:

Client No.	Sample Description	Fibrous Components	Asbestos Content
23/MFC-1	Black Vibration Boots, South Door Exit in Plant Overhead	40% Fiberglass	None Detected
26/EW-1	White Elbow Wrap (A) with Yellow Insulation (B), Above Drop Ceiling in Control Office	B) 97% Fiberglass	A) 15% Chrysotile B) None Detected
29/PR-1	Blue Paint (A) with White Weave (B) and Silver Foil (C) with Yellow Insulation (D), Blue Pipe Run, Chiller #5 Supply Line	B) 100% Cotton D) 99% Fiberglass	A) None Detected B) None Detected C) None Detected D) None Detected
32/EW-2	Blue Paint (A) with White Weave (B) and White Insulation (C), Elbows on Blue Pipe Runs, Chiller #5 (Ma-Ma Rod) Next to Yellow Stairs	B) 100% Cotton C) 25% Fiberglass	A) None Detected B) None Detected C) 20% Chrysotile
35/TO-1	Blue Paint (A) with White Weave (B) and Silver Foil (C) with White Paper (D) and Yellow Insulation (E), Insulation, (Blue), New Material, Chiller #5 at First Valve	B) 100% Cotton D) 98% Cellulose E) 99% Fiberglass	A) None Detected B) None Detected C) None Detected D) None Detected E) None Detected
38/PR-2	Blue Paint (A) with White Weave (B) and Silver Foil (C) with Black Mastic (D) and White Foam (E), Blue Pipe Run, New Material, Pipe Run at #1 Pump	B) 98% Cellulose	A) None Detected B) None Detected C) None Detected D) None Detected E) None Detected
41/EW-3	White Plastic (A) with Blue Paint (B) and White Weave (C) with Yellow Insulation (D), Blue Insulation, Elbows Old Material, West Wall Above Overhead Door at 20'	C) 100% Cotton D) 99% Fiberglass	A) None Detected B) None Detected C) None Detected D) None Detected
44/TO-2	Blue Paint (A) with White Weave (B) and White Foam (C), Blue Insulation on Connectors, Water Pump at #1 Below Valve on Supply Line	B) 100% Cotton	A) None Detected B) None Detected C) None Detected
47/EW-4	Black Paint (A) with White Weave (B) and Off-White Insulation (C), Green Elbow Wrap, Next to Chilled Water Make Up Tank	B) 100% Cotton C) 20% Fiberglass	A) None Detected B) None Detected C) 25% Chrysotile
50/PR-3	Green Paint (A) with White Paper (B) and Black Felt (C) and Silver Foil (D) with Yellow Insulation (E), Pipe Run Insulation (Green), North Wall Under City Water Label	B) 98% Cellulose C) 75% Cellulose E) 99% Fiberglass	A) None Detected B) None Detected C) None Detected D) None Detected E) None Detected

53/PR-4	Red Paint (A) with White Weave (B) and Off-White Insulation (C), Pipe Run Insulation (Red) Boiler, Little Cowboy Howard, Lt Side Above Control	B) 100% Cotton	A) None Detected B) None Detected C) 30% Chrysotile
56/EW-5	Red Paint (A) with White Weave (B) and Off-White Insulation (C), Elbows on Red Pipe Runs, Large Elbow Above Boiler "Whammo"	B) 100% Cotton	A) None Detected B) None Detected C) 30% Chrysotile
59/PR-5	Red Paint (A) with White Weave (B) and Off-White Insulation (C), Orange Pipe Runs, Pipe just Inside Overhead Door aft 2 Ton Hoist	B) 100% Cotton	A) None Detected B) None Detected C) 30% Chrysotile
62/EW-6	Orange Paint (A) with White Weave (B) and Grey Insulation (C), Elbows on Orange Pipe Runs, at 2 Ton Hoist, aft Overhead Door	B) 100% Cotton	A) None Detected B) None Detected C) 60% Chrysotile
65/PR-6	Silver Foil (A) with Black Mastic (B) and Tan Paper (C) with Yellow Insulation (D), Gray Pipe Runs, Rt. Side of 2 Ton Hoist at Overhead Door	C) 98% Cellulose D) 99% Fiberglass	A) None Detected B) None Detected C) None Detected D) None Detected
68/EW-7	Beige Insulation, Elbows on Gray Pipe Runs, Rt Side of 2 Ton Hoist at Overhead Door	20% Fiberglass	35% Chrysotile
71/PR-7	White Weave (A) with Black Felt (B) and Silver Foil (C) with Yellow Insulation (D), Tan/White Pipe Runs, at Boiler "Little Cowboy", Lt. Of Control Panel	A) 100% Cotton B) 70% Cellulose D) 99% Fiberglass	A) None Detected B) None Detected C) None Detected D) None Detected
74/EW-8	White Plastic (A) with White Weave (B) and Yellow Insulation (C), Elbows on Tan/White Pipes, at Boiler "Little Cowboy", Lt. of Control Panel	B) 100% Cotton C) 99% Fiberglass	A) None Detected B) None Detected C) None Detected
77/PR-8	Tan Paint (A) with White Weave (B) and Gray Insulation (C), Old Tan/White Pipes, at Boiler "Little Cowboy", Lt. of Control Panel	B) 100% Cotton	A) None Detected B) None Detected C) 60% Chrysotile
80/EW-9	Tan Paint (A) with White Weave (B) and Gray Insulation (C), Elbows on Tan/White Pipe, on Pipe Sample #77	B) 100% Cotton	A) None Detected B) None Detected C) 60% Chrysotile
83/TO-3	Tan Paint (A) with White Weave (B) and Gray Insulation (C), Insulation, Misc., Smoke Stack from "Little Cowboy"	B) 100% Cotton	A) None Detected B) None Detected C) 60% Chrysotile
86/TO-4	Tan Paint (A) with White Weave (B) and Beige Insulation (C), Insulation, Misc., Front Drain Plug on "Little Cowboy"	B) 100% Cotton C) 25% Fiberglass	A) None Detected B) None Detected C) 25% Chrysotile
89/TI-1	Tan Paint (A) with White Weave (B) and Beige Insulation (C), Boiler Tank Insulation, Boiler: "Little Cowboy"	B) 100% Cotton C) 25% Fiberglass	A) None Detected B) None Detected C) 25% Chrysotile
92/TI-2	Blue Paint (A) with White Weave (B) and Light Gray Insulation (C), Water Tank Insulation, Blue Water Tank Near Work Benchs	B) 100% Cotton C) 50% Mineral Wool	A) None Detected B) None Detected C) None Detected
95/MC-3	White Window Caulk, Vent Window 1st Floor, South Wall, #1	None	None Detected
98/MC-4	Light Blue Paint (A) with Gray Metal (B), Pipe Caulk, North Wall Silver Drain Line Through Wall	None	A) None Detected B) None Detected
101/SMT-2	White Paint (A) with Beige Texture (B), White Wall Texture, North Wall Exterior Break Room in Plant Area	B) 50% Perlite	A) None Detected B) None Detected
104/MO-2	Green Paint (A) and Blue Material (B) with Brown Mastic (C) and Beige Texture (D), Green Cove Base/Mastic, North Wall Break Room Exterior Wall at Door	D) 50% Perlite	A) None Detected B) None Detected C) None Detected D) None Detected
107/TI-3	Gray Tape (A) and White Weave (B) with Yellow Insulation (C) and Black Paint (D) with White Sealant (E), Insulation on Black Tank, Lt. End	A) 40% Cellulose B) 100% Cotton C) 99% Fiberglass	A) None Detected B) None Detected C) None Detected

	Cap of Tank		D) None Detected E) 10% Chrysotile
110/TI-4	Black Paint (A) with White Sealant (B), Insulation on Lower Black Tank, Lt. End Cap of Tank	None	A) None Detected B) 10% Chrysotile
113/TO-5	Gray Paint (A) with White Weave (B) and Off-White Insulation (C), Insulation on "Mama Rod" Front Caps	B) 100% Cotton C) 20% Fiberglass	A) None Detected B) None Detected C) 30% Chrysotile
116/TO-6	Gray Paint (A) with White Weave (B) and Off-White Insulation (C), Insulation on Fittings, Fitting Next to Control Unit	B) 100% Cotton C) 20% Fiberglass	A) None Detected B) None Detected C) 30% Chrysotile
119/TO-7	Green Paint (A) with White Weave (B) and Brown Cork (C) with Off-White Insulation (D), Insulation on #4 Unit, at End Cap	B) 100% Cotton D) 20% Fiberglass	A) None Detected B) None Detected C) None Detected D) 35% Chrysotile
122/TO-8	Green Paint (A) with White Weave (B) and Ligh Gray Insulation (C), Insulation on Fittings #4, Fitting at Compression	B) 100% Cotton C) 40% Cellulose 15% Fiberglass	A) None Detected B) None Detected C) None Detected
125/TO-9	Gray Paint (A) with White Weave (B), Gray Insulation, "Big Daddy Rod" at Damage on the End	B) 100% Cotton	A) None Detected B) None Detected

The EPA test method for bulk analysis (EPA/600/R-93/116) states in paragraph 2.2.2. that "the detection limit for visual estimation is a function of the quantity of the sample analyzed, the nature of matrix interference, sample preparation, and fiber size and distribution. Asbestos may be detected in concentrations of less than one percent by area if sufficient material is analyzed. Samples may contain fibers too small to be resolved by PLM (<0.25 micrometers in diameter) so detection of those fibers by this method may not be possible."

Samples are analyzed by layers, and percentages estimated visually during microscopic examination. Individual analysis sheets available upon request. Results may not be reproduced except in full. This test report relates only to the samples tested, and results must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Samples will be stored for a minimum of 90 days, after which time they will be disposed of unless notified by the client in writing. (Storage fees apply.)

Analyst: Jennifer Jaber

Lab Director: Jennifer D. Jaber

Approved Signatory : Jennifer Jaber

NVLAP

Crisp Analytical Laboratories, L.L.C.
2081 Hutton Dr. Suite 309 • Carrollton, TX 75006 • (972) 488-1414 • Fax (972) 488-8006
CA Labs L.L.C.
11800 Industriplex, Suite 5 • Baton Rouge, LA 70809 • (225) 751-5632 • Fax (225) 751-5634

POLARIZED LIGHT MICROSCOPY
BULK ASBESTOS ANALYSIS
LABORATORY ANALYSIS REPORT

Midwestern State Uiversity
3410 Taft Blvd.
Wichita Falls, TX 76308
reference number: CAL00051304

LABORATORY ANALYSIS:

Summary of point counting by polarized light microscopy (PLM / stereomicroscopy bulk asbestos analysis) using the method described in Neshaps and EPA-600/R-93/116 (AHERA). All analysts have received the necessary in-house and extramural training (McCrone Research) to perform analysis of bulk samples for the presence or absence of asbestos. Greater than ten percent of all samples are re-examined by a second analyst for intralaboratory quality control. Greater than one percent are re-examined by the same analyst for quality control. All analysts are required to participate in quality control analysis rounds. Microscopic calibrations are performed on a daily, weekly and monthly basis.

METHOD:

Point Counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90. Asbestos content of bulk materials was originally determined using procedures outlined in the interim method (40 CFR Part 763, Appendix E to Subpart E) and AHERA method (EPA-600/R-93/116).

Analysis performed at Crisp Analytical Labs, L.L.C. 2081 Hutton Dr. Suite 309 Carrollton, TX 75006; phone (972)488-1414, fax (972)488-8006, after-hours mobile (972)977-1958 or (214)564-8366.

Thank you,

David Bertolacci,
Laboratory Director

Crisp Analytical Laboratories, L.L.C.

2081 Hutton Dr. Suite 309 • Carrollton, TX 75006 • (972) 488-1414 • Fax (972) 488-8006

CA Labs L.L.C.

11800 Industriplex, Suite 5 • Baton Rouge, LA 70809 • (225) 751-5632 • Fax (225) 751-5634

Polarized Light Microscopy Point Count Report

Analysis Method: NESHAPS Point Counting / AHERA (EPA-600 / R - 93 / 116)

Sample Prep Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Client Information:
Midwestern State University
3410 Taft Blvd.
Wichita Falls, TX 76308

phone # 940-397-4827
fax # 940-397-4859
Attn: Charles Thorn

Report Date:
12 May 2000

CA Labs project no. CAL00051304
Client project name and number: Central Plant ACM-2000-01

Samples received: 5-5-00 8:00am
Turn-around time: 5 days
PO number:

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / point counted percent		
SMT-1-1	1	tan sandy plaster	y	**none detected**		4% quartz 96% gypsum
	2	white surfacing	y	**none detected**		3% mica 97% other
MCT-1-6	1	tan fibrous ceiling tile	y	**none detected**	40% cellulose 40% mineral wool	20% perlite
	2	white surfacing	y	**none detected**		< 1% quartz 15% carbonates 85% other
MCT-2-9	1	grey fibrous ceiling tile	y	**none detected**	45% cellulose 35% mineral wool	20% perlite
	2	white surfacing	y	**none detected**		14% carbonates 86% other
SO-1-12	1	blue vinyl material	y	**none detected**	< 1% cellulose	3% quartz 97% other
MO-1-17	1	light blue cove base	y	**none detected**		2% quartz 64% carbonates 34% organics

NVLAP #200349-0

TDH #30-0235

David Bertolacci
Analyst

Approved Signatories:

Leslie Crisp,
General Manager

David Bertolacci,
Laboratory Director

Notes:
Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case.
All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages are susceptible to a coefficient of variance. All percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for bulk asbestos fiber analysis (PLM) and airborne asbestos fiber analysis (TEM). This test report relates only to the items tested. Neither NVLAP nor EPA accreditation implies endorsement by any US Government agency. This report may not be reproduced except in full, without written permission by CA Labs.

These results are submitted pursuant to CA Labs' current terms and condition of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee may be assessed for the return of any samples.

Analysis performed at Crisp Analytical Labs, L.L.C. 2081 Hutton Dr. Suite 309 Carrollton, TX 75006; phone (972)488-1414, fax (972)488-8006, after-hours mobile (972)977-1958 or (214)564-8366.

Crisp Analytical Laboratories, L.L.C.

2081 Hutton Dr. Suite 309 • Carrollton, TX 75006 • (972) 488-1414 • Fax (972) 488-8006

CA Labs L.L.C.

11800 Industriplex, Suite 5 • Baton Rouge, LA 70809 • (225) 751-5632 • Fax (225) 751-5634

Polarized Light Microscopy Point Count Report

Analysis Method: NESHAPS Point Counting / AHERA (EPA-600 / R - 93 / 116)

Sample Prep Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Client Information:
Midwestern State University
3410 Taft Blvd.
Wichita Falls, TX 76308

phone # 940-397-4827
fax # 940-397-4859
Attn: Charles Thorn

Report Date:
12 May 2000

CA Labs project no. **CAL00051304**
Client project name and number: Central Plant ACM-2000-01

Samples received: 5-5-00 8:00am
Turn-around time: 5 days
PO number:

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / point counted percent		
MO-1-17	2	brown mastic	y	none detected	< 1% cellulose	2% other 2% mica 96% binder
MC-1-20	1	soft white caulking	y	2% chrysotile	< 1% cellulose	1% quartz 97% carbonates

NVLAP #200349-0

TDH #30-0235

David Bertolacci
Analyst

Approved Signatories:

Leslie Crisp, General Manager

David Bertolacci, Laboratory Director

Notes:
Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case.
All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages are susceptible to a coefficient of variance. All percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for bulk asbestos fiber analysis (PLM) and airborne asbestos fiber analysis (TEM). This test report relates only to the items tested. Neither NVLAP nor EPA accreditation implies endorsement by any US Government agency. This report may not be reproduced except in full, without written permission by CA Labs.

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Analysis performed at Crisp Analytical Labs, L.L.C. 2081 Hutton Dr. Suite 309 Carrollton, TX 75006; phone (972)488-1414, fax (972)488-8006, after-hours mobile (972)977-1958 or (214)564-8366.

QUEST
MicroAnalytics, Inc.
2530 Electronic Lane, Suite 712
Dallas, Texas 75220-1229
Tel. 214.351.4441
Fax 214.351.4487

CHAIN OF CUSTODY RECORD

CAL0005 1304

PROJECT NAME:	PROJECT MANAGER:	COMPANY NAME AND ADDRESS: (BILL TO)	P.O. NUMBER
CENTRAL PLANT	Environmental Safety	Midwestern State University 3410 Taft Blvd. Wichita Falls, TX 76308-2099 (940) 397-4827 fax (940) 397-4859	PROJECT NUMBER: ACM-2000-01
SAMPLER: (SIGNATURE)			

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	ANALYSIS REQUESTED PLM/PCM/TEM/SEM	DATE RESULTS NEEDED	LAB SAMPLE NUMBER
			See Attached Sheet HAS 6 SAMPLES			

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)
Charles Thor	5/4/00 11:20 AM				
RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)
				5-5-00 8 am	AP
RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME	REMARKS	

ESESIS

11022 FM 3326 South
Hawley, Texas 79606
915-691-0172 <> 800-793-7255
FAX 915-695-8455

SAMPLE CUSTODY

RELINQUISED BY: Charles Thorn DATE: 4 May 2000

RECEIVED BY: _____ DATE: _____

NUMBER OF SAMPLES ENCLOSED: 6

REQUESTED TIME FOR ANALYSIS

6 HOUR **12 HOUR** **24 HOUR** **36 HOUR** **48 HOUR** **60 HOUR** **72 HOUR**

	Sample No.	Code	Material	Location
1.	#1	SMT-1	Texturizer, Wall	Above Break Room. Door outside wall
2.	#6	MCT-1	Ceiling Tile, Fractured Pattern	Wall #1, break Room
3.	#9	MCT-2	2'x 4' Ceiling Tile	Office #103, Center of Room
4.	#12	SO-1	Green Floor Covering	Damaged area near Chiller #3
5.	#17	MO-1	Blue Cove Base	Entry to Office #103
6.	#20	MC-1	Caulking, Doors	Left side of Door, Chemical Storage
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Crisp Analytical Laboratories, L.L.C.
2081 Hutton Dr. Suite 309 • Carrollton, TX 75006 • (972) 488-1414 • Fax (972) 488-8006
CA Labs L.L.C.
11800 Industriplex, Suite 5 • Baton Rouge, LA 70809 • (225) 751-5632 • Fax (225) 751-5634

POLARIZED LIGHT MICROSCOPY
BULK ASBESTOS ANALYSIS
LABORATORY ANALYSIS REPORT

Midwestern State Uiversity
3410 Taft Blvd.
Wichita Falls, TX 76308
reference number: CAL00051306

LABORATORY ANALYSIS METHOD:

Summary of polarizing light microscopy (PLM / stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Improved Interim) and EPA/600/R-93/116 (AHERA). All analysts have received the necessary in-house and extramural training (McCrone Research and/or University Degree in Geology, Chemistry, Environmental and Material Science) to perform analysis of bulk samples for the presence or absence of asbestos. Greater than ten percent of all samples are re-examined by a second analyst for intralaboratory quality control. Greater than one percent are re-examined by the same analyst for quality control. All analysts are required to participate in quality control analysis rounds. Microscopic calibrations are performed on a daily, weekly and monthly basis.

Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages are susceptible to variance. All percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. CA Labs is accredited by the **National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for bulk asbestos fiber analysis (PLM).** This test report relates only to the items tested. Neither NVLAP nor EPA accreditation implies endorsement by any US Government agency. This report may not be reproduced except in full, without written permission by CA Labs.

These results are submitted pursuant to CA Labs' current terms and condition of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety days before discarding. A shipping and handling fee may be assessed for the return of any samples.

Analysis performed at Crisp Analytical Labs, L.L.C. 2081 Hutton Dr. Suite 309 Carrollton, TX 75006; phone (972)488-1414, fax (972)488-8006, after-hours mobile (972)977-1958 or (214)564-8366.

David Bertolacci,
Laboratory Director

Crisp Analytical Laboratories, L.L.C.

2081 Hutton Dr. Suite 309 • Carrollton, TX 75006 • (972) 488-1414 • Fax (972) 488-8006

CA Labs L.L.C.

11800 Industriplex, Suite 5 • Baton Rouge, LA 70809 • (225) 751-5632 • Fax (225) 751-5634

Polarized Light Microscopy Report

Analysis Method: Improved Interim (40CFR Part 763 Appendix E to Subpart E) / AHERA (EPA-600 / R - 93 / 116)

Sample Prep Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Client Information:
Midwestern State University
3410 Taft Blvd.
Wichita Falls, TX 76308

phone # 940-397-4827
fax # 940-397-4859
Attn: Charles Thorn

Report Date:
12 May 2000

CA Labs project no. **CAL00051306**
Client project name and number: Central Plant ACM-2000-01

Samples received: 5-5-00 8:00am
Turn-around time: 5 days
PO number:

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
2	1	tan surfacing peach plaster	n	**none detected**	1% cellulose	14% quartz 86% gypsum
3	1	blue surfacing white plaster	n	**none detected**	1% cellulose	25% quartz 75% gypsum
4	1	blue surfacing white plaster	n	**none detected**	1% cellulose	21% quartz 79% gypsum
5	1	blue surfacing white plaster	n	**none detected**	1% cellulose	22% quartz 78% gypsum
7	1	brown fibrous ceiling tile	y	**none detected**	20% cellulose	3% quartz 13% perlite
	2	white	y	**none detected**		3% mica 16% carbonates 81% binder
8	1	brown fibrous ceiling tile	y	**none detected**	22% cellulose 61% mineral wool	3% quartz 14% perlite
	2	white surfacing	y	**none detected**		3% mica 15% carbonates 82% binder

Keith Malone
Analyst(s)

NVLAP #200349-0

TDH #30-0235

Approved Signatories:

Leslie Crisp, General Manager

David Bertolacci, Laboratory Director

Notes:
Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case.
All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages are susceptible to a coefficient of variance. All percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for bulk asbestos fiber analysis (PLM) and airborne asbestos fiber analysis (TEM). This test report relates only to the items tested. Neither NVLAP nor EPA accreditation implies endorsement by any US Government agency. This report may not be reproduced except in full, without written permission by CA Labs.

Analysis performed at Crisp Analytical Labs, L.L.C. 2081 Hutton Dr. Suite 309 Carrollton, TX 75006; phone (972)488-1414, fax (972)488-8006, after-hours mobile (972)977-1958 or (214)564-8366.

Crisp Analytical Laboratories, L.L.C.
2081 Hutton Dr. Suite 309 • Carrollton, TX 75006 • (972) 488-1414 • Fax (972) 488-8006
CA Labs L.L.C.
11800 Industriplex, Suite 5 • Baton Rouge, LA 70809 • (225) 751-5632 • Fax (225) 751-5634

Polarized Light Microscopy Report

Analysis Method: Improved Interim (40CFR Part 763 Appendix E to Subpart E) / AHERA (EPA-600 / R - 93 / 116)

Sample Prep Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Client Information:
Midwestern State University
3410 Taft Blvd.
Wichita Falls, TX 76308

phone # 940-397-4827
fax # 940-397-4859
Attn: Charles Thorn

Report Date:
12 May 2000

CA Labs project no. **CAL00051306**
Client project name and number: Central Plant ACM-2000-01

Samples received: 5-5-00 8:00am
Turn-around time: 5 days
PO number:

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
10	1	gray fibrous ceiling tile	y	**none detected**	24% cellulose 57% mineral wool	3% quartz 16% perlite
	2	white surfacing	Y	**none detected**		2% mica 18% carbonates 80% binder
11	1	gray fibrous ceiling tile	y	**none detected**	25% cellulose 56% mineral wool	3% quartz 16% perlite
13	1	green floor covering	y	**< 1% chrysotile**		3% quartz 97% other
	2	brown plaster	y	**none detected**		24% quartz 76% gypsum
14	1	green floor covering	y	**< 1% chrysotile**		4% quartz 96% other
15	1	green floor covering	y	**< 1% chrysotile**		4% quartz 96% other
16	1	green floor covering	y	**< 1% chrysotile**		4% quartz 96% other

Keith Malone
Analyst(s)

NVLAP #200349-0

TDH #30-0235

Approved Signatories:

Leslie Crisp, General Manager

David Bertolacci, Laboratory Director

Notes:
Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case.
" asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages are susceptible to a coefficient of variance. All percentages fall within a range xceptable percentages, depending on the actual concentration of asbestos. CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for bulk asbestos fiber ysis (PLM) and airborne asbestos fiber analysis (TEM). This test report relates only to the items tested. Neither NVLAP nor EPA accreditation implies endorsement by any US Government agency. This report may not reproduced except in full, without written permission by CA Labs.

Analysis performed at Crisp Analytical Labs, L.L.C. 2081 Hutton Dr. Suite 309 Carrollton, TX 75006; phone (972)488-1414, fax (972)488-8006, after-hours mobile (972)977-1958 or (214)564-8366.

Crisp Analytical Laboratories, L.L.C.

2081 Hutton Dr. Suite 309 • Carrollton, TX 75006 • (972) 488-1414 • Fax (972) 488-8006

CA Labs L.L.C.

11800 Industriplex, Suite 5 • Baton Rouge, LA 70809 • (225) 751-5632 • Fax (225) 751-5634

Polarized Light Microscopy Report

Analysis Method: Improved Interim (40CFR Part 763 Appendix E to Subpart E) / AHERA (EPA-600 / R - 93 / 116)

Sample Prep Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Client Information:
Midwestern State University
3410 Taft Blvd.
Wichita Falls, TX 76308

phone # 940-397-4827
fax # 940-397-4859
Attn: Charles Thorn

Report Date:
12 May 2000

CA Labs project no. **CAL00051306**
Client project name and number: Central Plant ACM-2000-01

Samples received: 5-5-00 8:00am
Turn-around time: 5 days
PO number:

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
18	1	green core base	n	**none detected**	1% cellulose	2% quartz 97% binder
	2	brown mastic	y	**< 1% anthophyllite**	1% talc	2% mica 97% other
19	1	blue core base	y	**none detected**	1% cellulose	1% quartz 98% binder
	2	brown mastic	y	**< 1% anthophyllite**	2% talc	2% mica 96% other
21	1	white and brown caulking	n	**2% chrysotile**		2% mica 30% carbonates 68% binder
22	1	white and brown caulking	n	**2% chrysotile**		2% mica 27% carbonates 69% binder

NVLAP #200349-0

TDH #30-0235

Approved Signatories:

Keith Malone
Analyst(s)

Leslie Crisp,
General Manager

David Bertolacci,
Laboratory Director

Notes:
Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case.
All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages are susceptible to a coefficient of variance. All percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for bulk asbestos fiber analysis (PLM) and airborne asbestos fiber analysis (TEM). This test report relates only to the items tested. Neither NVLAP nor EPA accreditation implies endorsement by any US Government agency. This report may not be reproduced except in full, without written permission by CA Labs.

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CA Labs

Crisp Analytical Laboratories, LLC.
2081 Hutton Dr.
Suite 309
Carrollton, TX 75006

Phone: 972-488-1414
Fax: 972-488-8006
After hours Mobile: 972-977-1958

Chain of Custody

Client Name: Midwestern State University

Client Address: 3410 Taft Blvd.
Wichita Falls, TX 76308-2099

phone number: 940-397-4827
fax number: 940-397-4859
Project Number: ACM-2000-01

CA Labs job # CAL 00051306

Billing Address: (if different)

Send Reports to: Environmental Safety
Project Name: ~~Building~~ CENTRAL PLAN

Total # Samples Submitted:	Total # Samples to be Analyzed:	Material Matrix:
16	16	Air (Bulk)

Asbestos:

please call ahead for availability of all rush and/or after hours samples.

TEM	TA Time	PLM	TA Time	PCM	TA Time
Circle analysis and TA time		Circle analysis and TA time	*2 hour*	Circle analysis and TA time	
AHERA	*4 hour*	Improved	4 hour	NIOSH 7400	4 hour
EPA Level II	8 hour	(Interim)	8 hour		8 hour
Drinking Water	16 hour		16 hour		16 hour
Wipe	24 hour	AHERA	24 hour		24 hour
Micro-vac	2 days		2 days		2 days
NIOSH 7402	3 days	Point Count -	3 days		3 days
Chatfield Bulk	5 days	(NESHAPS)	5 days		5 days

Lead: Circle analysis and TA time

Matrix:		Paint Chips	Soil	Air	Wipes	Wastewater
TA Time:	*8 hour*	1 day	2 days	3 days	5 days	6-10 days

Sample Information:

Sample Number:	Sample Location:	Sample Volume (L):
	SEE ATTACHED	
	SHEET 16 SAMPLES	

Custody Information:

Samples relinquished: Barbara Thomas 11:00 Am 5/4/00
Signature / Date / Time

Samples received: AP 5.5.00 8am
Signature / Date / Time

Samples relinquished:
Signature / Date / Time

Samples received:
Signature / Date / Time

ESESIS

11022 FM 3326 South
Hawley, Texas 79606
915-691-0172 <> 800-793-7255
FAX 915-695-8455

SAMPLE CUSTODY

RELINQUISED BY: _____ DATE: 4 May 2000

RECEIVED BY: _____ DATE: _____

NUMBER OF SAMPLES ENCLOSED: 16

REQUESTED TIME FOR ANALYSIS

6 HOUR **12 HOUR** **24 HOUR** **36 HOUR** **48 HOUR** **60 HOUR** **72 HOUR**

	Sample No.	Code	Material	Location
1.	#02	SMT-1	Texturizer, Wall	Above wall #1, Break Room
2.	#03	SMT-1	Texturizer, Wall	Wall #1 Testing Room
3.	#04	SMT-1	Texturizer, Wall	Above Hall, Wall #1
4.	#05	SMT-1	Texturizer, Wall	Drafting Room, Wall #4
5.	#07	MCT-1	2' x 4' Ceiling Tile	Wall #4, Chemical Storage
6.	#08	MCT-1	2' x 4' Ceiling Tile	Wall #1, Testing Room
7.	#10	MCT-2	2' x 4' Ceiling Tile	Wall #2, Office 103
8.	#11	MCT-2	2' x 4' Ceiling Tile	Wall #2, Office 103
9.	#13	SO-1	Green Floor Covering	Front Entry Door, Wall #1
10.	#14	SO-1	Green Floor Covering	First Floor, Wall #3
11.	#15	SO-1	Green Floor Covering	Mezzanine, at Chiller #1
12.	#16	SO-1	Green Floor Covering	Mezzanine, Door to hall to Locker
13.	#18	MO-1	Blue Cove Base	Entry to Conference Room at Door
14.	#19	MO-1	Blue Cove Base	Wall #4 Conference Room
15.	#21	MC-1	Caulking	Right side of Door, Testing Room
16.	#22	MC-1	Caulking	Exit Door, Right side, Reception area
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Crisp Analytical Laboratories, L.L.C.
2081 Hutton Dr. Suite 309 • Carrollton, TX 75006 • (972) 488-1414 • Fax (972) 488-8006
CA Labs L.L.C.
11800 Industriplex, Suite 5 • Baton Rouge, LA 70809 • (225) 751-5632 • Fax (225) 751-5634

POLARIZED LIGHT MICROSCOPY
BULK ASBESTOS ANALYSIS
LABORATORY ANALYSIS REPORT

Midwestern State University
3410 Taft Blvd.
Wichita Falls, TX 76308-2099
reference number: CAL00041197

LABORATORY ANALYSIS METHOD:

Summary of polarizing light microscopy (PLM / stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Improved Interim) and EPA/600/R-93/116 (AHERA). All analysts have received the necessary in-house and extramural training (McCrone Research and/or University Degree in Geology, Chemistry, Environmental and Material Science) to perform analysis of bulk samples for the presence or absence of asbestos. Greater than ten percent of all samples are re-examined by a second analyst for intralaboratory quality control. Greater than one percent are re-examined by the same analyst for quality control. All analysts are required to participate in quality control analysis rounds. Microscopic calibrations are performed on a daily, weekly and monthly basis.

Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages are susceptible to variance. All percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. CA Labs is accredited by the **National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for bulk asbestos fiber analysis (PLM).** This test report relates only to the items tested. Neither NVLAP nor EPA accreditation implies endorsement by any US Government agency. This report may not be reproduced except in full, without written permission by CA Labs.

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Analysis performed at Crisp Analytical Labs, L.L.C. 2081 Hutton Dr. Suite 309 Carrollton, TX 75006; phone (972)488-1414, fax (972)488-8006, after-hours mobile (972)977-1958 or (214)564-8366.

David Bertolacci,
Laboratory Director

Crisp Analytical Laboratories, L.L.C.
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Polarized Light Microscopy Report

Analysis Method: Improved Interim (40CFR Part 763 Appendix E to Subpart E) / AHERA (EPA-600 / R - 93 / 116)

Sample Prep Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Client Information:
Midwestern State University
3410 Taft Blvd.
Wichita Falls, TX 76308-2099

phone # 940-397-4827
fax # 940-397-4859
Attn: Flint Skaggs

Report Date:
2 May 2000

CA Labs project no. **CAL00041197**
Client project name and number: Central Plant ACM-2000-01

Samples received: 4-28-00 8:00am
Turn-around time: 24 hours
PO number:

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
MFC-1-24	1	gray and black rubber layer with white fibers	y	**none detected**	15% fiberglass < 1% cellulose	< 1% quartz 85% other
MFC-1-25	1	gray and black rubber layer with white fibers	y	**none detected**	12% fiberglass	88% other
EW-1-27	1	yellow fibrous insulation	y	**none detected**	98% fiberglass	2% other
	2	tan surfacing	y	**2% chrysotile**		20% carbonates 78% other
EW-1-28	1	yellow fibrous insulation	y	**none detected**	98% fiberglass	2% other
	2	tan surfacing	y	**3% chrysotile**		20% carbonates 77% other
PR-1-30	1	yellow fibrous insulation	y	**none detected**	99% fiberglass	1% other
	2	white paper on metal foil	n	**none detected**	60% cellulose	2% quartz 38% other

David Bertolacci & Keith Malone
Analyst(s)

NVLAP #200349-0

TDH #30-0235

Approved Signatories:

Leslie Crisp, General Manager

David Bertolacci, Laboratory Director

Notes:
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Polarized Light Microscopy Report

Analysis Method: Improved Interim (40CFR Part 763 Appendix E to Subpart E) / AHERA (EPA-600 / R - 93 / 116)

Sample Prep Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

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Report Date:
2 May 2000

CA Labs project no. **CAL00041197**
Client project name and number: Central Plant ACM-2000-01

Samples received: 4-28-00 8:00am
Turn-around time: 24 hours
PO number:

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
PR-1-30	3	blue surfacing	y	**none detected**		100% other
PR-1-31	1	yellow fibrous insulation	y	**none detected**	98% fiberglass	< 1% quartz 2% other
	2	blue surfaced cloth mesh	n	**none detected**	25% cellulose 5% fiberglass	< 1% quartz 70% other
	3	white surfacing on metal foil	n	**none detected**	30% cellulose 10% fiberglass	5% quartz 55% other
EW-2-33	1	yellow fibrous insulation	y	**none detected**		100% other
	2	blue surfaced cloth mesh	n	**none detected**	25% cellulose	2% quartz 73% other
	3	white surfacing	y	**none detected**	15% fiberglass	2% mica 83% other
EW-2-34	1	yellow fibrous insulation	y	**none detected**	99% fiberglass	1% other

David Bertolacci & Keith Malone
Analyst(s)

NVLAP #200349-0

TDH #30-0235

Approved Signatories:

Leslie Crisp, General Manager

David Bertolacci, Laboratory Director

Notes:
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Polarized Light Microscopy Report

Analysis Method: Improved Interim (40CFR Part 763 Appendix E to Subpart E) / AHERA (EPA-600 / R - 93 / 116)

Sample Prep Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

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phone # 940-397-4827
fax # 940-397-4859
Attn: Flint Skaggs

Report Date:
2 May 2000

CA Labs project no. **CAL00041197**
Client project name and number: Central Plant ACM-2000-01

Samples received: 4-28-00 8:00am
Turn-around time: 24 hours
PO number:

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
EW-2-34	2	blue surfaced cloth mesh	n	**none detected**	30% cellulose	70% other
	3	off-white surfacing with fiber mesh	n	**none detected**	25% fiberglass	2% quartz 73% other
TO-1-36	1	yelolow fibrous insulation	y	**none detected**	99% fiberglass	1% other
	2	blue surfaced cloth mesh on metal foil	n	**none detected**	30% cellulose	70% other
TO-1-37	1	yellow fibrous insulation	y	**none detected**	99% other	< 1% quartz 1% other
	2	blue surfaced cloth mesh	n	**none detected**	48% cellulose	52% other
PR-2-39	1	white styrofoam	y	**none detected**	< 1% cellulose	100% organics
	2	blue surfacing on metal foil	n	**none detected**	20% cellulose 3% fiberglass	25% carbonates 52% other

NVLAP #200349-0

TDH #30-0235

David Bertolacci & Keith Malone
Analyst(s)

Approved Signatories:

Leslie Crisp, General Manager

David Bertolacci, Laboratory Director

Notes:
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CA Labs L.L.C.

11800 Industriplex, Suite 5 • Baton Rouge, LA 70809 • (225) 751-5632 • Fax (225) 751-5634

Polarized Light Microscopy Report

Analysis Method: Improved Interim (40CFR Part 763 Appendix E to Subpart E) / AHERA (EPA-600 / R - 93 / 116)

Sample Prep Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

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3410 Taft Blvd.
Wichita Falls, TX 76308-2099

phone # 940-397-4827
fax # 940-397-4859
Attn: Flint Skaggs

Report Date:
2 May 2000

CA Labs project no. **CAL00041197**
Client project name and number: Central Plant ACM-2000-01

Samples received: 4-28-00 8:00am
Turn-around time: 24 hours
PO number:

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
PR-2-40	1	yellow fibrous insulation	y	**none detected**	98% fiberglass < 1% cellulose	2% other
	2	blue surfacing on cloth mesh	n	**none detected**	45% cellulose	55% other
	3	white surfacing	y	**none detected**	24% fiberglass	76% other
EW-3-42	1	gray fibrous insulation	y	**12% chrysotile**	28% mineral wool	2% quartz 58% gypsum
	2	blue surfaced cloth mesh and gray insulation layer	n	**52% chrysotile**	25% cellulose	< 1% mica 23% other
EW-3-43	1	gray fibrous insulation	y	**13% chrysotile**	25% mineral wool	62% gypsum
	2	blue surfaced cloth mesh with gray insulation layer	n	**50% chrysotile**	35% cellulose	15% other
TO-2-45	1	white styrofoam	y	**none detected**		100% organics

NVLAP #200349-0

TDH #30-0235

David Bertolacci & Keith Malone
Analyst(s)

Approved Signatories:

Leslie Crisp, General Manager

David Bertolacci, Laboratory Director

Notes:
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CA Labs L.L.C.

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Polarized Light Microscopy Report

Analysis Method: Improved Interim (40CFR Part 763 Appendix E to Subpart E) / AHERA (EPA-600 / R - 93 / 116)

Sample Prep Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

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phone # 940-397-4827
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Attn: Flint Skaggs

Report Date:
2 May 2000

CA Labs project no. **CAL00041197**
Client project name and number: Central Plant ACM-2000-01

Samples received: 4-28-00 8:00am
Turn-around time: 24 hours
PO number:

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
TO-2-45	2	blue surfacing on canvas and fiber mesh	n	**none detected**	60% cellulose 2% fiberglass	38% other
TO-2-46	1	white styrofoam	y	**none detected**		100% organics
	2	blue surfacing on canvas and fiber mesh	n	**none detected**	45% cellulose 10% fiberglass	45% other
EW-4-48	1	gray fibrous insulation	y	**15% chrysotile**	20% mineral wool	2% quartz 63% gypsum
	2	green surfacing on fiber mesh	n	**< 1% chrysotile**	38% cellulose	62% other
EW-4-49	1	gray fibrous insulation	y	**58% chrysotile**	2% mineral wool	40% other
	2	green surfacing on fiber mesh with gray insulation layer	n	**30% chrysotile**	40% cellulose	2% mica 28% other
PR-3-51	1	yellow fibrous insulation	y	**none detected**	98% fiberglass < 1% cellulose	2% other

NVLAP #200349-0

TDH #30-0235

David Bertolacci & Keith Malone
Analyst(s)

Approved Signatories:

Leslie Crisp, General Manager

David Bertolacci, Laboratory Director

Notes:
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Polarized Light Microscopy Report

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Samples received: 4-28-00 8:00am
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PO number:

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
PR-3-51	2	green surfacing on metal foil	n	**none detected**	42% cellulose	58% other
PR-3-52	1	yellow fibrous insulation	y	**none detected**	97% fiberglass 2% cellulose	1% other
	2	green surfacing on metal foil	n	**none detected**	45% cellulose	55% other
PR-4-54	1	gray fibrous insulation	y	**44% chrysotile**		56% carbonates
	2	red surfacing on canvas mesh	n	**< 1% chrysotile**	52% cellulose	48% other
PR-4-55	1	beige fibrous insulation	y	**none detected**	15% synthetic fibers 5% fiberglass	2% quartz 78% carbonates
	2	red surfacing on canvas mesh	n	**none detected**	60% cellulose	40% other
EW-5-57	1	gray fibrous insulation	y	**35% chrysotile**	5% cellulose	60% carbonates

David Bertolacci & Keith Malone
Analyst(s)

NVLAP #200349-0

TDH #30-0235

Approved Signatories:

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David Bertolacci, Laboratory Director

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Samples received: 4-28-00 8:00am
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EW-5-57	2	red surfacing on canvas mesh	n	**< 1% chrysotile**	60% cellulose	40% other
EW-5-58	1	gray fibrous insulation	y	**35% chrysotile**		65% carbonates
	2	red surfacing on canvas mesh	n	**10% chrysotile**	45% cellulose	45% other
PR-5-60	1	gray fibrous insulation	y	**41% chrysotile**		59% carbonates
PR-5-61	1	gray fibrous insulation	y	**45% chrysotile**		55% carbonates
	2	orange surfacing on canvas mesh	n	**< 1% chrysotile**	40% cellulose	2% mica 58% other
EW-6-63	1	gray fibrous insulation	y	**49% chrysotile**	4% cellulose	47% carbonates
	2	orange surfacing on canvas mesh	y	**3% chrysotile**	55% cellulose	42% other

David Bertolacci & Keith Malone
Analyst(s)

NVLAP #200349-0

TDH #30-0235

Approved Signatories:

Leslie Crisp, General Manager

David Bertolacci, Laboratory Director

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Wichita Falls, TX 76308-2099

phone # 940-397-4827
fax # 940-397-4859
Attn: Flint Skaggs

Report Date:
2 May 2000

CA Labs project no. **CAL00041197**
Client project name and number: Central Plant ACM-2000-01

Samples received: 4-28-00 8:00am
Turn-around time: 24 hours
PO number:

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
EW-6-64	1	gray fibrous insulation	y	**14% chrysotile**	28% mineral wool	2% quartz 54% gypsum
	2	orange surfacing on canvas mesh	n	**< 1% chrysotile**	30% cellulose	70% other
PR-6-66	1	yellow fibrous insulation	y	**none detected**	98% cellulose	2% other
	2	silver surfaced black tar paper on metal foil	n	**none detected**	42% cellulose	< 1% quartz 58% other
PR-6-67	1	yellow fibrous insulation	y	**none detected**	98% fiberglass	2% other
	2	silver surfaced tar paper on metal foil	n	**none detected**	40% cellulose	< 1% quartz 60% other
EW-7-69	1	beige fibrous insulation	y	**18% chrysotile**	25% mineral wool	2% quartz 55% gypsum
EW-7-70	1	beige fibrous insulation	y	**18% chrysotile**	26% mineral wool	56% gypsum

NVLAP #200349-0

TDH #30-0235

David Bertolacci & Keith Malone
Analyst(s)

Approved Signatories:

Leslie Crisp,
General Manager

David Bertolacci,
Laboratory Director

Notes:
Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case.
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Analysis performed at Crisp Analytical Labs, L.L.C. 2081 Hutton Dr. Suite 309 Carrollton, TX 75006; phone (972)488-1414, fax (972)488-8006, after-hours mobile (972)977-1958 or (214)564-8366.

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CA Labs L.L.C.
11800 Industriplex, Suite 5 • Baton Rouge, LA 70809 • (225) 751-5632 • Fax (225) 751-5634

Polarized Light Microscopy Report

Analysis Method: Improved Interim (40CFR Part 763 Appendix E to Subpart E) / AHERA (EPA-600 / R - 93 / 116)

Sample Prep Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

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EW-7-70	2	silver surfacing canvas mesh	n	**< 1% chrysotile**	40% cellulose	60% other
PR-7-72	1	yellow fibrous insulation	y	**none detected**	98% fiberglass	2% other
	2	white surfacing on metal foil	n	**none detected**	42% cellulose 15% fiberglass	43% other
	3	black tar paper	y	**none detected**	43% cellulose	57% other
	4	tan surfacing on canvas	n	**none detected**	66% cellulose	34% other
PR-7-73	1	yellow fibrous insulation	y	**none detected**	98% fiberglass	2% other
	2	white surfacing on metal foil	n	**none detected**	40% cellulose 20% fiberglass	40% other
	3	black tar paper	y	**none detected**	44% cellulose 2% fiberglass	54% other

NVLAP #200349-0

TDH #30-0235

David Bertolacci & Keith Malone
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Approved Signatories:

Leslie Crisp, General Manager

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PR-7-73	4	tan surfacing on canvas	n	**none detected**	55% cellulose 5% fiberglass	< 1% quartz
EW-8-75	1	yellow fibrous insulation	y	**none detected**	98% fiberglass	2% other
	2	white surfacing	y	**none detected**	15% fiberglass	5% quartz 80% other
	3	tan surfacing on canvas and white vinyl layer	n	**none detected**	15% cellulose	85% other
EW-8-76	1	yellow fibrous insulation	y	**none detected**	99% fiberglass	1% other
	2	white fiber mesh	y	**none detected**	100% fiberglass	
	3	tan surfacing on canvas	n	**none detected**	60% cellulose	2% quartz 38% other
	4	white vinyl	y	**none detected**	< 1% fiberglass	100% organics

NVLAP #200349-0

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PR-8-78	1	gray fibrous insulation	y	**24% chrysotile**		76% carbonates
	2	tan surfacing on canvas	n	**< 1% chrysotile**	54% cellulose	< 1% quartz 46% other
PR-8-79	1	gray fibrous insulation	y	**35% chrysotile**	4% cellulose	61% carbonates
	2	tan surfacing on canvas	y	**2% chrysotile**	48% cellulose	50% other
EW-9-81	1	gray fibrous insulation	y	**78% chrysotile**	< 1% fiberglass	2% biotite 20% other
	2	tan surfacing on canvas with gray insulation	n	**5% chrysotile**	55% cellulose	40% other
EW-9-82	1	tan and gray fibrous insulation and surfacing mixed	n	**74% chrysotile**	3% fiberglass	23% other
TO-3-84	1	gray fibrous insulation	y	**20% chrysotile**	15% mineral wool	65% gypsum

NVLAP #200349-0

TDH #30-0235

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Polarized Light Microscopy Report

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Samples received: 4-28-00 8:00am
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TO-3-84	2	tan surfacing on canvas with gray insulation	n	**10% chrysotile**	42% cellulose	48% other
TO-3-85	1	tan fibrous insulation	y	**none detected**	15% synthetic fibers 5% fiberglass	2% quartz 78% other
	2	tan surfacing canvas	y	**none detected**	60% cellulose < 1% synthetic fibers	40% other
TO-3-87	1	pink surfaced mesh material	n	**4% chrysotile**	36% cellulose	3% quartz 57% other
	2	off-white fibrous insulation	y	**28% chrysotile**	1% cellulose 42% mineral wool	3% quartz 26% carbonates
TO-4-88	1	green surfaced mesh material	n	**< 1% chrysotile**	48% cellulose	2% quartz 50% other
	2	off-white fibrous insulation	y	**36% chrysotile**		3% quartz 61% other
TI-1-90	1	tan surfaced mesh material	n	**2% chrysotile**	52% cellulose	3% quartz 43% other

NVLAP #200349-0

TDH #30-0235

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David Bertolacci & Keith Malone
Analyst(s)

Leslie Crisp,
General Manager

David Bertolacci,
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TI-1-90	2	gray fibrous insulation	y	**40% chrysotile**		3% quartz 57% other
TI-1-91	1	tan mesh with foil	n	**none detected**	2% synthetic fibers 5% fiberglass 27% cellulose	3% quartz 63% other
	2	tan mesh material	n	**none detected**	46% cellulose	2% quartz 52% other
	3	yellow fibrous insulation	y	**none detected**	100% fiberglass	
TI-2-93	1	blue surfaced mesh material	n	**< 1% chrysotile**	46% cellulose	3% quartz 51% other
	2	gray fibrous insulation	y	**2% chrysotile**	1% cellulose 12% fiberglass	3% quartz 82% gypsum
TI-2-94	1	blue surfaced mesh material	n	**none detected**	42% cellulose	3% quartz 55% other
	2	gray fibrous insulation	y	**3% chrysotile**	1% cellulose 15% fiberglass	3% quartz 78% gypsum

David Bertolacci & Keith Malone
Analyst(s)

NVLAP #200349-0

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MC-3-96	1	blue surfacing tan caulking	n	**< 1% chrysotile**		2% quartz 13% carbonates 85% matrix
MC-3-97	1	blue surfaced tan caulking	n	**< 1% chrysotile**		2% quartz 15% carbonates 83% matrix
	2	brown fibrous material	y	**none detected**	27% cellulose	1% quartz 72% binder
MC-4-99	1	yellow cau	y	**none detected**	1% cellulose	1% quartz 98% binder
MC-4-100	1	brown granular material	n	**none detected**	1% cellulose	42% quartz 57% other
SMT-2-102	1	white textured surfacing on drywall	n	**none detected**		2% quartz 68% gypsum 30% other
SMT-2-107 2	1	white textured surfacing on drywall	n	**none detected**		2% quartz 70% gypsum 28% other
MO-2-105	1	green plaster base board	y	**none detected**	1% cellulose	3% quartz 12% carbonates 84% binder

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NVLAP #200349-0

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MO-2-105	2	white mastic	y	**none detected**	1% cellulose	2% mica 97% binder
MO-2-106	1	green plaster base board	y	**none detected**	1% cellulose	2% quartz 12% carbonates 85% binder
TI-3-108	1	black vinyl surfacing	y	**none detected**	1% cellulose 1% fiberglass	1% mica 97% binder
	2	yellow fibrous insulation	y	**none detected**	100% fiberglass	
TI-4-109	1	black surfaced white compound	n	**3% chrysotile**		2% mica 95% binder
	2	gray duct tape	y	**none detected**	38% cellulose 1% fiberglass	61% binder
	3	white vinyl material	y	**none detected**		100% binder
	4	yellow fibrous insulation	y	**none detected**	100% fiberglass	

NVLAP #200349-0

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TI-4-111	1	black vinyl surfacing	y	**none detected**	1% cellulose	1% mica 98% binder
	2	yellow fibrous insulation	y	**none detected**	100% fiberglass	
TI-4-112	1	black surfaced white compound	n	**4% chrysotile**		3% mica 97% binder
TO-5-114	1	gray mesh material	n	**2% chrysotile**	62% cellulose	1% mica 35% other
	2	gray fibrous insulation	y	**48% chrysotile**		4% quartz 48% gypsum
	3	tan surfaced mesh material	n	**2% chrysotile**	27% cellulose	2% mica 69% other
TO-5-115	1	gray mesh material	n	**none detected**	46% cellulose	1% mica 53% other
	2	tan surfaced mesh material	n	**< 1% chrysotile**	31% cellulose	2% mica 67% other

David Bertolacci & Keith Malone
Analyst(s)

NVLAP #200349-0

TDH #30-0235

Approved Signatories:

Leslie Crisp, General Manager

David Bertolacci, Laboratory Director

Notes:
Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case.
All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages are susceptible to a coefficient of variance. All percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for bulk asbestos fiber analysis (PLM) and airborne asbestos fiber analysis (TEM). This test report relates only to the items tested. Neither NVLAP nor EPA accreditation implies endorsement by any US Government agency. This report may not be reproduced except in full, without written permission by CA Labs.

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Crisp Analytical Laboratories, L.L.C.

2081 Hutton Dr. Suite 309 • Carrollton, TX 75006 • (972) 488-1414 • Fax (972) 488-8006

CA Labs L.L.C.

11800 Industriplex, Suite 5 • Baton Rouge, LA 70809 • (225) 751-5632 • Fax (225) 751-5634

Polarized Light Microscopy Report

Analysis Method: Improved Interim (40CFR Part 763 Appendix E to Subpart E) / AHERA (EPA-600 / R - 93 / 116)

Sample Prep Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Client Information:
Midwestern State University
3410 Taft Blvd.
Wichita Falls, TX 76308-2099

phone # 940-397-4827
fax # 940-397-4859
Attn: Flint Skaggs

Report Date:
2 May 2000

CA Labs project no. CAL00041197
Client project name and number: Central Plant ACM-2000-01

Samples received: 4-28-00 8:00am
Turn-around time: 24 hours
PO number:

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
TO-5-115	3	gray fibrous insulation	y	**< 1% chrysotile**	41% cellulose 2% synthetic fibers	2% quartz 55% other
	4	off-white fibrous insulation	y	**26% chrysotile**	51% fiberglass	2% quartz 21% gypsum
	5	brown granular material	y	**none detected**	5% fiberglass	1% mica 94% binder
TO-6-117	1	gray duck tape	y	**none detected**	3% synthetic fibers 44% cellulose	1% quartz 52% other
	2	brown foam material	y	**none detected**	1% cellulose 98% cellulose	1% quartz
TO-6-118	1	gray and green mesh material	n	**< 1% chrysotile**	48% cellulose 2% fiberglass	2% quartz 48% other
	2	off-white fibrous insulation	y	**32% chrysotile**	49% fiberglass	3% quartz 16% gypsum
TO-6-120	1	tan surfaced mesh material	n	**< 1% chrysotile**	46% cellulose	2% mica 52% other

NVLAP #200349-0

TDH #30-0235

David Bertolacci & Keith Malone
Analyst(s)

Approved Signatories:

Leslie Crisp, General Manager

David Bertolacci, Laboratory Director

Notes:
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CA Labs L.L.C.
11800 Industriplex, Suite 5 • Baton Rouge, LA 70809 • (225) 751-5632 • Fax (225) 751-5634

Polarized Light Microscopy Report

Analysis Method: Improved Interim (40CFR Part 763 Appendix E to Subpart E) / AHERA (EPA-600 / R - 93 / 116)

Sample Prep Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Client Information:
Midwestern State University
3410 Taft Blvd.
Wichita Falls, TX 76308-2099

phone # 940-397-4827
fax # 940-397-4859
Attn: Flint Skaggs

Report Date:
2 May 2000

CA Labs project no. **CAL00041197**
Client project name and number: Central Plant ACM-2000-01

Samples received: 4-28-00 8:00am
Turn-around time: 24 hours
PO number:

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
TO-6-120	2	green mesh material	n	**2% chrysotile**	49% cellulose	2% quartz 47% other
	3	off-white fibrous insulation	y	**27% chrysotile**	55% fiberglass	3% quartz 15% gypsum
TO-7-121	1	green mesh material	n	**2% chrysotile**	52% cellulose	3% quartz 43% other
	2	off-white fibrous insulation	y	**34% chrysotile**	47% fiberglass	3% quartz 16% gypsum
TO-8-123	1	green mesh material	n	**none detected**	50% cellulose	2% quartz 48% other
	2	off-white fibrous insulation	y	**none detected**	21% cellulose 49% fiberglass	3% quartz 27% gypsum
TO-8-124	1	green mesh material	n	**none detected**	47% cellulose	3% quartz 50% other
	2	off-white fibrous insulation	y	**none detected**	17% cellulose 55%fg	3% quartz 26% gypsum

NVLAP #200349-0

TDH #30-0235

David Bertolacci & Keith Malone
Analyst(s)

Approved Signatories:

Leslie Crisp, General Manager

David Bertolacci, Laboratory Director

Notes:
Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case.
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Analysis performed at Crisp Analytical Labs, L.L.C. 2081 Hutton Dr. Suite 309 Carrollton, TX 75006; phone (972)488-1414, fax (972)488-8006, after-hours mobile (972)977-1958 or (214)564-8366.

Crisp Analytical Laboratories, L.L.C.

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CA Labs L.L.C.

11800 Industriplex, Suite 5 • Baton Rouge, LA 70809 • (225) 751-5632 • Fax (225) 751-5634

Polarized Light Microscopy Report

Analysis Method: Improved Interim (40CFR Part 763 Appendix E to Subpart E) / AHERA (EPA-600 / R - 93 / 116)

Sample Prep Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

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Midwestern State University
3410 Taft Blvd.
Wichita Falls, TX 76308-2099

phone # 940-397-4827
fax # 940-397-4859
Attn: Flint Skaggs

Report Date:
2 May 2000

CA Labs project no. **CAL00041197**
Client project name and number: Central Plant ACM-2000-01

Samples received: 4-28-00 8:00am
Turn-around time: 24 hours
PO number:

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
TO-9-126	1	gray duct tape	n	**none detected**	5% synthetic fibers 47% cellulose	1% quartz 47% other
	2	black foam material	y	**none detected**	1% cellulose 98% other	1% quartz
TO-9-127	1	gray duct tape	n	**none detected**	43% cellulose 3% synthetic fibers	2% quartz 52% other

NVLAP #200349-0

TDH #30-0235

David Bertolacci & Keith Malone
Analyst(s)

Approved Signatories:

Leslie Crisp, General Manager

David Bertolacci, Laboratory Director

Notes:
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CA Labs

Crisp Analytical Laboratories, LLC.
2081 Hutton Dr.
Suite 309
Carrollton, TX 75006

Phone: 972-488-1414
Fax: 972-488-8006
After hours Mobile: 972-977-1958

Chain of Custody

Client Name: Midwestern State University
Client Address: 3410 Taft Blvd.
Wichita Falls, TX 76308-2099
phone number: ~~940-397-4827~~
fax number: 940-397-4859
Project Number: ACM-2000-01

CA Labs job # CAL 00041197

Billing Address: (if different)

Send Reports to: Environmental Safety
Project Name: Building: CENTRAL PLAN

Total # Samples Submitted:	Total # Samples to be Analyzed:	Material ~~Matrix~~: Air / Bulk

Asbestos: *please ~~call ahead~~ for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	PCM	TA Time
Circle analysis and TA time		Circle analysis and TA time	*2 hour*	Circle analysis and TA time	
AHERA	*4 hour*	Improved	4 hour	NIOSH 7400	4 hour
EPA Level II	8 hour	Interim	8 hour		8 hour
Drinking Water	16 hour		16 hour		16 hour
Wipe	24 hour	AHERA	24 hour		24 hour
Micro-vac	2 days		2 days		2 days
NIOSH 7402	3 days	Point Count -	3 days		3 days
Chatfield Bulk	5 days	(NESHAPS)	5 days		5 days

Lead: Circle analysis and TA time

Matrix:		Paint Chips	Soil	Air	Wipes	Wastewater
TA Time:	*8 hour*	1 day	2 days	3 days	5 days	6-10 days

Sample Information:

Sample Number:	Sample Location:	Sample Volume (L):
	See Attached Sheet	

Custody Information:
Samples relinquished: Charles Thom 04/24/00 1300
Signature / Date / Time

Samples received: AP 4.28.00 8:00am
Signature / Date / Time

Samples relinquished:
Signature / Date / Time

Samples received:
Signature / Date / Time

ESESIS

11022 FM 3326 South
Hawley, Texas 79606
915-691-0172 <> 800-793-7255
FAX 915-695-8455

SAMPLE CUSTODY

RELINQUISED BY: Charles Shor DATE: April 26 2000

RECEIVED BY: _____ DATE: _____, ___ 2000

NUMBER OF SAMPLES ENCLOSED: _____ Crisp

REQUESTED TIME FOR ANALYSIS

6 HOUR **12 HOUR** **24 HOUR** **36 HOUR** **48 HOUR** **60 HOUR** **72 HOUR**

Sample No.	Code	Material	Location
1. 24	MFC-1	Vibration Boot	Over the exit door, Wall 4
2. 25	MFC-1	Vibration Boot	Over the exit door, Wall 4
3. 27	EW-1	Elbow wrap & insulation	Above ceilings in control office
4. 28	EW-1	Elbow wrap & insulation	Above ceilings in control office
5. 30	PR-1	Insulation on pipe run	In the plant at chillers
6. 31	PR-1	Insulation on pipe run	In the plant at chillers
7. 33	EW-2	Insulation on pipe elbows	In the plant at chillers
8. 34	EW-2	Insulation on pipe elbows	In the plant at chillers
9. 36	TO-1	Insulation on water valve	In plant at chillers-1st valve
10. 37	TO-1	Insulation on water valve	In plant at chillers-1st valve
11. 39	PR-2	Insulation on water line	In plant at chillers
12. 40	PR-2	Insulation on water line	In plant at chillers
13. 42	EW-3	Insulation on water line elbows	South side of mech. room
14. 43	EW-3	Insulation on water line elbows	South side of mech. room
15. 45	TO-2	Insulation on connectors	On chilled water lines
16. 46	TO-2	Insulation on connectors	On chilled water lines
17. 48	EW-4	Insulation on city water supply	Elbows of water supply
18. 49	EW-4	Insulation on city water supply	Elbows of water supply
19. 51	PR-3	Insulation on pipe runs	On city water lines
20. 52	PR-3	Insulation on pipe runs	On city water lines
21. 54	PR-4	At pipe runs	Boiler above control panel
22. 55	PR-4	At pipe runs	Boiler on top side
23. 57	EW-5	At pipe runs at elbows	Elbow above boiler
24. 58	EW-5	At pipe runs at elbows	Large gote valve
25. 60	PR-5	At pipe runs	Over the door
26. 61	PR-5	At pipe runs	Into carrier unit above door
27. 63	EW-6	Elbows of pipe runs	Elbow at 2 ton hoist
28. 64	EW-6	Elbows of pipe runs	Elbow coming form #61
29. 66	PR-6	At pipe runs	Over the door
30. 67	PR-6	At pipe runs	Over the door
31. 69	EW-7	Elbows of pipe run	Over the door
32. 70	EW-7	Elbows of pipe run	Elbow at #67
33. 72	PR-7	Pipe runs from boilers	Out of control panel
34. 73	PR-7	Pipe runs from boilers	Side of control panel
35. 75	EW-8	Pipe runs at elbows	Out of control panel
36. 76	EW-8	Pipe runs at elbows	Attached to #73
37. 78	PR-8	Pipe runs at boilers	Side of control panel
38. 79	PR-9	Pipe runs at boilers	Side of control panel
39. 81	EW-9	Pipe runs at elbows	Elbow on pipe run #78

ESESIS

11022 FM 3326 South
Hawley, Texas 79606
915-691-0172 <> 800-793-7255
FAX 915-695-8455

SAMPLE CUSTODY

RELINQUISED BY: _____ DATE: _____, ___ 2000

RECEIVED BY: _____ DATE: _____, ___ 2000

NUMBER OF SAMPLES ENCLOSED: _____

REQUESTED TIME FOR ANALYSIS

6 HOUR **12 HOUR** **24 HOUR** **36 HOUR** **48 HOUR** **60 HOUR** **72 HOUR**

Sample No.	Code	Material	Location
40. 82	EW-9	Pipe runs at elbows	Elbows of pipes run #79
42. 84	TO-3	Insulation from boiler to roof	Ceiling of boiler
43. 85	TO-3	Insulation from boiler to roof	Ceiling of boiler
44. 87	TO-4	Drain plugs of boilers	Front drain plug
45. 88	TO-4	Drain plugs of boilers	Drain plug on whammed
46. 90	TI-1	Boiler tank insulation	Tank insulation at boiler tank
47. 91	TI-1	Boiler tank insulation	Boiler insulation on platform
48. 93	TI-2	Boiler tank insulation	Blue water tank insulation
49. 94	TI-2	Boiler tank insulation	Blue water tank insulation
50. 96	MC-3	Interior caulking	Vent window #2 on south wall
51. 97	MC-3	Interior caulking	Vent window on east wall
52. 99	MC-4	Caulk on pipes	North wall gas line
53. 100	MC-4	Caulk on pipes	South wall next to exit door
54. 102	SMT-2	Texture on walls	West wall under fire exit
55. 103	SMT-2	Texture on walls	West wall of junction box series
56. 105	MO-2	Cove base in mech. area	North wall of break room
57. 106	MO-2	Cove base in mech. area	West wall exterior at south door
58. 108	TI-3	Insulation on black tank	Middle of tank
59. 109	TI-3	Insulation on black tank	Lt. End cap of tank
60. 111	TI-4	Insulation on lower black tank	Middle of the tank
61. 112	TI-4	Insulation on lower black tank	Lt. End cap of tank
62. 114	TO-5	Insulation on "Mama rod:"	PFT. Of front cap
63. 115	TO-5	Insulation on "Mama rod"	Middle of cylinder
64. 117	TO-6	Insulation on fittings	"Mama rod" next to control unit
65. 118	TO-6	Insulation on fittings	"Mama rod" at cylinder
66. 120	TO-7	Insulation on unit #4	Middle of cylinder
67. 121	TO-7	Insulation on unit #4	Rear end cap
68. 123	TO-8	Insulation on unit #4 fittings	At cylinder
69. 124	TO-8	Insulation on unit #4 fittings	At elbow
70. 126	TO-9	Gray wrap at damage	"Big daddy rod" on the end
71. 127	TO-9	Gray wrap at damage	Under "Big daddy rod" sign

LAB AND PERSONNEL LICENSES/CERTS

CONSULTING AGENCY LICENSE'S

TEXAS
DEPARTMENT OF HEALTH

BE IT KNOWN THAT

ESESIS, INC.

is Licensed and authorized to perform as an

Asbestos Consultant Agency

in the State of Texas within the purview of Texas Civil Statutes, Article 4477-3a, as amended, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

10-0022
License Number

04/11/2000
Issue Date

04/10/2001
Expiration Date

This certificate is void after expiration date.

Todd F. Wingler, P.E.
Chief, Asbestos Programs Branch
Occupational Safety and Health Division

William R. Archer III, M.D.
Commissioner of Health

VOID IF ALTERED NON-TRANSFERABLE

51028

TEXAS
DEPARTMENT OF HEALTH

BE IT KNOWN THAT

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is Licensed and authorized to perform as an

Asbestos Consultant Agency

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10-0102
License Number

06/29/1999
Issue Date

06/28/2000
Expiration Date

This certificate is void after expiration date.

Todd F. Wingler, P.E.
Chief, Asbestos Programs Branch
Occupational Safety and Health Division

William R. Archer III, M.D.
Commissioner of Health

VOID IF ALTERED NON-TRANSFERABLE

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10-0102
License Number

06/29/2000
Issue Date

06/28/2001
Expiration Date

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Chief, Asbestos Programs Branch
Occupational Safety and Health Division

William R. Archer III, M.D.
Commissioner of Health

VOID IF ALTERED NON-TRANSFERABLE

52391

INDIVIDUAL CONSULTANTS

Texas Department of Health certifies that:

DENNY E WALKER

License Number 10-5023
is Licensed as an
Asbestos Individual
Consultant
From 12/21/1999 To 12/20/2000

William R. Archer III, M.D.
Commissioner of Health

Control No. 48992

Texas Department of Health certifies that

DENNY E WALKER

License Number 105023
is Licensed as an
Individual Asbestos Consultant

From 12/21/2000 To 12/20/2001

William R. Archer III, M.D.
Commissioner of Health

Control No. 55305

GEBCO ASSOCIATES

in cooperation with

THE UNIVERSITY OF NORTH TEXAS

certifies that

Denny E. Walker

467-19-9531

has successfully completed and passed the exam given on the final day for the Environmental Training Program entitled

Asbestos Inspector Refresher Course

Conducted at Hurst, Texas on October 27, 1999. This is an EPA fully approved course for purpose of accreditation under Section 206 of TSCA, Title II.

Certificate expires October 27, 2000.

GEBCO

Instructor

Date of Issue 10/27/99 re-issued May 4, 2000

Certificate Number 99214

GEBCO's Training Programs are provided in cooperation with federal and state regulatory agencies, and fulfill all applicable requirements for accreditation. GEBCO is licensed for Asbestos Training under the Texas Asbestos Health Protection Rules.

GEBCO Associates, Inc. • 669 Airport Freeway, Suite 210 • Hurst, TX 76053 • (817) 268-4006

GEBCO ASSOCIATES

in cooperation with

THE UNIVERSITY OF NORTH TEXAS

certifies that

Denny E. Walker

467-19-9531

has successfully completed and passed the exam given on the final day for the Environmental Training Program entitled

Asbestos Management Planner Refresher Course

Conducted at Hurst, Texas on October 27, 1999. This is an EPA fully approved course for purpose of accreditation under Section 206 of TSCA, Title II. It covers topics listed in the NESHAP training requirement of 40 CFR, Part 61, subpart M.

Certificate expires October 27, 2000.

GEBCO

Instructor

Date of Issue 10/27/99 re-issued May 4, 2000

Certificate Number 99113

GEBCO's Training Programs are provided in cooperation with federal and state regulatory agencies, and fulfill all applicable requirements for accreditation. GEBCO is licensed for Asbestos Training under the Texas Asbestos Health Protection Rules.

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TEXAS DEPARTMENT OF HEALTH
TOXIC SUBSTANCES CONTROL DIVISION

ASBESTOS LICENSING SECTION
REVISED JULY 1996

PHYSICIAN'S WRITTEN STATEMENT
MEDICAL SURVEILLANCE FOR ASBESTOS EXPOSURE
(Revised July 1996)

APPLICANT'S NAME: Walker (Last) Denny (First) E. (M.I.)

ADDRESS: 2400 Arrowhead (Street) Abilene (City) TX (State) 79606 (Zip)

SOCIAL SECURITY #: 467-19-9551 TELEPHONE #: 915)691-0172

The above-named individual was seen on 8/27/99, in accordance with:

(1) ✓ 29 CFR 1926.1101 OR (2) _____ 40 CFR 763.121

INDICATE WHICH ITEMS WERE PERFORMED WITH PHYSICIAN'S OR ASSISTANT'S INITIALS:

MN Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per part 1 and 2 of Appendix D in 1926.1101.

MN If employed, the employer provided, and review was made of, the employer's description of this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, the personal protective and respiratory equipment to be utilized by the employee, and information from previous medical examinations of the affected employee that is not otherwise available to the physician.

MN A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.

MN The pulmonary function tests of forced vital capacity (FVC) and forced expiratory volume at one second (FEV 1) in accordance with NIOSH and ATS standards.

MN Indicate whether or not the physician decided that an x-ray was required: ✓ yes or _____ no, and if an x-ray was performd: ✓ yes or _____ no. A chest roentgenogram, posterior-anterior, 14" x 17" or current film on file with interpretation in accordance with 29 CFR 1926.1101, Appendix E. NOTE: According to 29 CFR 1926.1101(M)(2)(li)(C), the requirement for a chest x-ray is at the physician's discretion.

MN The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that no medical conditions were detected that would place the employee at an increased risk of material health impairment from exposure to asbestos, and no limitations are recommended on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations, if any: _____

Michael N Njoth PA (Physician's Signature) MICHAEL NJOTH (Print Physician's Name) 817)640-1111 (Telephone)

185 S. Watson Pkwy #108 (Street Address) Arlington (City) TX (State) 76010 (Zip)

Med-Alert Industrial Health
185 S. Watson Rd. Ste 108
Arlington, TX

GEBCO ASSOCIATES

in cooperation with

THE UNIVERSITY OF NORTH TEXAS

certifies that

Denny E. Walker

467-19-9531

has successfully completed and passed the exam given on the final day for the Environmental Training Program entitled

Asbestos Inspector Refresher Course

Conducted at Hurst, Texas on October 27, 2000

This is an EPA fully approved course for purpose of accreditation under Section 206 of TSCA, Title II.

GEBCO

President

Instructor

Date of issue: 10/27/00

Certificate Number: 00213

Certificate expires: 10/27/2001

GEBCO's Training Programs are provided in cooperation with federal and state regulatory agencies, and fulfill all applicable requirements for accreditation.
GEBCO is licensed for Asbestos Training under the Texas Asbestos Health Protection Rules.

GEBCO Associates, Inc. * 669 Airport Freeway, Suite 210 * Hurst, TX 76053 * (817) 268-4006

AGR

GEBCO ASSOCIATES

in cooperation with

THE UNIVERSITY OF NORTH TEXAS

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467-19-9531

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GEBCO

President

Instructor

Date of issue: 10/25/00

Certificate Number: 00117

Certificate expires: 10/25/2001

1.6 Continuing Education units

GEBCO's Training Programs are provided in cooperation with federal and state regulatory agencies, and fulfill all applicable requirements for accreditation

GEBCO is licensed for Asbestos Training under the Texas Asbestos Health Protection Rules

GEBCO Associates, Inc • 669 Airport Freeway, Suite 210 • Hurst, TX 76053 • (817) 268-1006

...OF HEALTH
...S CONTROL DIVISION

ASBESTOS LICENS...
REVISED APRIL 19...

PHYSICIAN'S WRITTEN STATEMENT
MEDICAL SURVEILLANCE FOR ASBESTOS EXPOSURE

APPLICANT'S NAME: Walker (Last) Denny (First) E. (M.I.)

ADDRESS: 4601 Buffalo Gap Rd (Street) Abilene (City) TX (State) 79606 (Zip)

SOCIAL SECURITY # 467-19-9531 TELEPHONE # (915) 691-0172

The above-named individual was seen on 10-29-2000, in accordance with:

INDICATE WHICH ITEMS WERE PERFORMED WITH PHYSICIAN'S OR ASSISTANT'S **INITIALS**:
(any that are not applicable, must still be initialed off in addition to the N/A.)

CB Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per part 1 and 2 of Appendix D in 1926.1101.

CB If employed, the employer provided, and review was made of, the employer's description of this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, the personal protective and respiratory equipment to be utilized by the employee, and information from previous medical examinations of the effected employee that is not otherwise available to the physician.

CB A physical examination with emphasis upon the pulmonary, cardiovascular and gastrointestinal systems.

CB The pulmonary function tests of forced vital capacity (FVC) and forced expiratory volume at one second (FEV 1) in accordance with NIOSH and ATS standards.

CB Indicate whether or not the physician decided that an x-ray was required and was performed: _____ yes or ___no. A chest roentgenogram, posterior-anterior, 14" x 17" or current film on file with interpretation in accordance with 29 CFR 1926.1101, Appendix E. NOTE: According to 29 CFR 1926.1101 (M)(2)(ii)(c), the requirement for a chest x-ray is at the physician's discretion.

CB The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that no medical conditions were detected that would place the employee at an increased risk of material health impairment from exposure to asbestos, and no limitations are recommended in the employee concerning the use of personal protective equipment or respirator. By signing this form, I acknowledge that this examination has been performed in accordance with either 29 CFR 1926.1101 or 40 CFR 763.1211 is required.

Comments or limitations, if any: CXR - Normal
PFT - Normal

Cherie Bennett PA (Physician's Signature) Cherie Bennett PA (Print Physicians Name) (817) 640-1111 (Telephone)

185 S. Watson Rd. (Street Address) Arlington (City) TX (State) 76010 (Zip)

Texas Department of Health certifies that

CHARLES THORN

License Number **105047**
is Licensed as an
Individual Asbestos Consultant

From **12/29/1999** To **12/28/2000**

William R. Archie, M.D.
Commissioner of Health

Control No. 49241

Texas Department of Health certifies that:

CHARLES THORN

License Number 105047
is Licensed as an
Individual Asbestos Consultant

From 12/29/2000 To 12/28/2001

William R. Archer II, M.D.
Commissioner of Health

Control No. 55232

GEBCO ASSOCIATES

in cooperation with

THE UNIVERSITY OF NORTH TEXAS

certifies that

Charles M. Thorn

464-56-9009

has successfully completed and passed the exam given on the final day for the Environmental Training Program entitled

Asbestos Inspector Refresher Course

Conducted at Hurst, Texas on October 27, 1999. This is an EPA fully approved course for purpose of accreditation under Section 206 of TSCA, Title II.

Certificate expires October 27, 2000.

GEBCO

Instructor

Date of Issue 10/27/99

Certificate Number 99213

GEBCO's Training Programs are provided in cooperation with federal and state regulatory agencies, and fulfill all applicable requirements for accreditation. GEBCO is licensed for Asbestos Training under the Texas Asbestos Health Protection Rules.

GEBCO Associates, Inc. • 669 Airport Freeway, Suite 210 • Hurst, TX 76053 • (817) 268-4006

GEBCO ASSOCIATES

in cooperation with

THE UNIVERSITY OF NORTH TEXAS

certifies that

Charles M. Thorn

464-56-9009

has successfully completed and passed the exam given on the final day for the Environmental Training Program entitled

Asbestos Management Planner Refresher Course

Conducted at Hurst, Texas on October 27, 1999. This is an EPA fully approved course for purpose of accreditation under Section 206 of TSCA, Title II. It covers topics listed in the NESHAP training requirement of 40 CFR, Part 61, subpart M.

Certificate expires October 27, 2000.

GEBCO

Instructor

Date of Issue 10/27/99

Certificate Number: 99114

GEBCO's Training Programs are provided in cooperation with federal and state regulatory agencies, and fulfill all applicable requirements for accreditation. GEBCO is licensed for Asbestos Training under the Texas Asbestos Health Protection Rules.

GEBCO Associates, Inc. • 669 Airport Freeway, Suite 210 • Hurst, TX 76053 • (817) 268-4006

TEXAS DEPARTMENT OF HEALTH
TOXIC SUBSTANCES CONTROL DIVISION

ASBESTOS LICENSING SECTION
REVISED JULY 1996

PHYSICIAN'S WRITTEN STATEMENT
MEDICAL SURVEILLANCE FOR ASBESTOS EXPOSURE
(Revised July 1996)

APPLICANT'S NAME: Thorn (Last) Charles (First) M (M.I.)

ADDRESS: 65 Queen Anns Lace (Street) Abilene (City) Tx (State) 79606 (Zip)

SOCIAL SECURITY #: 464-56-9009 TELEPHONE #: 915-695-1866

The above-named individual was seen on 11-17-99, in accordance with:

(1) ✓ 29 CFR 1926.1101 OR (2) _____ 40 CFR 763.121

INDICATE WHICH ITEMS WERE PERFORMED WITH PHYSICIAN'S OR ASSISTANT'S INITIALS:

PE Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per part 1 and 2 of Appendix D in 1926.1101.

PE If employed, the employer provided, and review was made of, the employer's description of this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, the personal protective and respiratory equipment to be utilized by the employee, and information from previous medical examinations of the affected employee that is not otherwise available to the physician.

PE A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.

PE The pulmonary function tests of forced vital capacity (FVC) and forced expiratory volume at one second (FEV 1) in accordance with NIOSH and ATS standards.

PE Indicate whether or not the physician decided that an x-ray was required: _____ yes or ✓ no, and if an x-ray was performd: _____ yes or _____ no. A chest roentgenogram, posterior-anterior, 14" x 17" or current film on file with interpretation in accordance with 29 CFR 1926.1101, Appendix E. NOTE: According to 29 CFR 1926.1101(M)(2)(ii)(C), the requirement for a chest x-ray is at the physician's discretion.

PE The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including tbe increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that no medical conditions were detected that would place the employee at an increased risk of material health impairment from exposure to asbestos, and no limitations are recommended on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations, if any: No restrictions

PA
Physician's Signature

PENNYPAC
Print Physician's Name

817-640-1111
Telephone

N5 S. Waston Rd. STE 101 Arlington, Texas 76011
Street Address City State Zip

GEBCO ASSOCIATES

in cooperation with

THE UNIVERSITY OF NORTH TEXAS

certifies that

Charles M. Thorn

464-56-9009

has successfully completed and passed the exam given on the final day for the Environmental Training Program entitled

Asbestos Inspector Refresher Course

Conducted at Hurst, Texas on October 25, 2000

This is an EPA fully approved course for purpose of accreditation under Section 206 of TSCA, Title II.

GEBCO

Edna M. Kovach

President

Instructor

Date of issue: 10/25/00

Certificate Number: 00212

Certificate expires: 10/25/2001

GEBCO's Training Programs are provided in cooperation with federal and state regulatory agencies, and fulfill all applicable requirements for accreditation.
GEBCO is licensed for Asbestos Training under the Texas Asbestos Health Protection Rules

GEBCO Associates, Inc * 669 Airport Freeway, Suite 210 * Hurst, TX 76053 * (817) 268-4006

AIR

GEBCO ASSOCIATES

in cooperation with

THE UNIVERSITY OF NORTH TEXAS

certifies that

Charles M. Thorn

464-56-9009

has successfully completed and passed the exam given on the final day for the Environmental Training Program entitled

Asbestos Management Planner Refresher

Conducted at Hurst, Texas on October 25, 2000

This is an EPA fully approved course for purpose of accreditation under Section 206 of TSCA, Title II. It covers topics listed in the NESHAP training requirement of 40 CFR, Part 61, subpart M.

GEBCO

Edna M. Kovach

President

Instructor

Date of Issue: 10/25/00

Certificate Number: 00121

Certificate expires: 10/25/2001

1.6 Continuing Education units

GEBCO's Training Programs are provided in cooperation with federal and state regulatory agencies, and fulfill all applicable requirements for accreditation

GEBCO is licensed for Asbestos Training under the Texas Asbestos Health Protection Rules

GEBCO Associates, Inc. * 669 Airport Freeway, Suite 210 * Hurst, TX 76053 * (817) 268-4006

MEDICAL SURVEILLANCE FOR ASBESTOS EXPOSURE

(Revised July 1996)

APPLICANT'S NAME: Thorn (Last) Charles (First) M (M.I)

ADDRESS: 65 Queen Anne Loop (Street) Abilene (City) Tx (State) 79606 (Zip)

SOCIAL SECURITY #: 464-56-9009 TELEPHONE #: 915-695-1866

The above-named individual was seen on: 10-27-00, in accordance with:

(1) ✓ 29 CFR 1926.1101 OR (2) ____ 40 CFR 763.121

INDICATE WHICH ITEMS WERE PERFORMED WITH PHYSICIAN'S OR ASSISTANT'S INITIALS

MMD. Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per part 1 and 2 of Appendix D in 1926.1101.

MMD. If employed, the employer provided, and review was made of, the employer's description of this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, the personal protective and respiratory equipment to be utilized by the employee, and information from previous medical examinations of the affected employee that is not otherwise available to the physician.

MMD. A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.

MMD. The pulmonary function tests of forced vital capacity (FVC) and forced expiratory volume at one second (FEV 1) in accordance with NIOSH and ATS standards.

MMD. Indicate whether or not the physician decided that an x-ray was required: ____ yes or ✓ no, and if an x-ray was performd: ____ yes or ✓ no. A chest roentgenogram, posterior-anterior, 14" x 17" or current film on file with interpretation in accordance with 29 CFR 1926.1101, Appendix E NOTE: According to 29 CFR 1926.1101(M)(2)(ii)(C), the requirement for a chest x-ray is at the physician's discretion.

MMD. The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that no medical conditions were detected that would place the employee at an increased risk of material health impairment from exposure to asbestos, and no limitations are recommended on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations, if any: _____

Physician's Signature — Mark E. Morris D.O. — (817)429-5055 (Telephone)

6950 Brentwood Stair Rd (Street Address) Fort Worth (City) TX (State) 76112 (Zip)

INSPECTORS

Texas Department of Health certifies that:

STEVEN E ROBB

License Number **602004**
is Licensed as an
Asbestos Inspector

From **05/05/2000** To **05/04/2001**

William R. Archer III, MD
Commissioner of Health

Control No. 51361

IET

The Institute of Environmental Training

Certificate of Achievement
Awarded to

Steven E. Robb

In compliance with requisite training of TSCA Title II and in recognition of the successful completion of an EPA approved AHERA course and passed an examination in:

Asbestos Abatement Inspector Training Course
Twenty Four (24) Hour Course

Course Date (s) February 14, 2000

Exam Date February 16, 2000

Expiration Date February 15, 2001

Certificate No. INS 384-58-5250

Instructor

Director of Training
P.O. Box 6865
Abilene, Texas 79608
(915) 691-0172

№ 2864

TEXAS DEPARTMENT OF HEALTH
TOXIC SUBSTANCES CONTROL DIVISION

ASBESTOS LICENSING SECTION
REVISED JULY 1996

PHYSICIAN'S WRITTEN STATEMENT
MEDICAL SURVEILLANCE FOR ASBESTOS EXPOSURE
(Revised July 1996)

APPLICANT'S NAME: ROBB (Last) STEVEN (First) E. (M.I.)

ADDRESS: 2210 INDEPENDENCE ABILENE TX 79601
Street City State Zip

SOCIAL SECURITY #: 384-58-5250 TELEPHONE #: (915) 676 5910

The above-named individual was seen on 1-31-00, in accordance with:

(1) ✓ 29 CFR 1926.1101 OR (2) _____ 40 CFR 763.121

INDICATE WHICH ITEMS WERE PERFORMED WITH PHYSICIAN'S OR ASSISTANT'S INITIALS:

AR Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per part 1 and 2 of Appendix D in 1926.1101.

AR If employed, the employer provided, and review was made of, the employer's description of this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, the personal protective and respiratory equipment to be utilized by the employee, and information from previous medical examinations of the affected employee that is not otherwise available to the physician.

AR A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.

AR The pulmonary function tests of forced vital capacity (FVC) and forced expiratory volume at one second (FEV 1) in accordance with NIOSH and ATS standards.

AR Indicate whether or not the physician decided that an x-ray was required: _____ yes or ✓ no, and if an x-ray was performd: ✓ yes or _____ no. A chest roentgenogram, posterior-anterior, 14" x 17" or current film on file with interpretation in accordance with 29 CFR 1926.1101, Appendix E. NOTE: According to 29 CFR 1926.1101(M)(2)(ii)(C), the requirement for a chest x-ray is at the physician's discretion.

AR The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that no medical conditions were detected that would place the employee at an increased risk of material health impairment from exposure to asbestos, and no limitations are recommended on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations, if any: _____

DN DOMINIC NGUYEN 817-640-1111
Physician's Signature Print Physician's Name Telephone

1805 S. Watson Suite 108 Arlington, TX 76010
Street Address City State Zip

GEBCO ASSOCIATES

in cooperation with

THE UNIVERSITY OF NORTH TEXAS

certifies that

Tom M. Gill

453-19-7707

has successfully completed and passed the exam given on the final day for the Environmental Training Program entitled

Asbestos Inspector Refresher Course

Conducted at Hurst, Texas on August 4, 1999. This is an EPA fully approved course for purpose of accreditation under Section 206 of TSCA, Title II.

Certificate expires August 4. 2000.

GEBCO

Instructor

Date of Issue: 08/04/99

Certificate Number 99153

GEBCO's Training Programs are provided in cooperation with federal and state regulatory agencies, and fulfill all applicable requirements for accreditation. GEBCO is licensed for Asbestos Training under the Texas Asbestos Health Protection Rules.

GEBCO Associates, Inc. • 669 Airport Freeway, Suite 210 • Hurst, TX 76053 • (817) 268-4006

TEXAS DEPARTMENT OF HEALTH
TOXIC SUBSTANCES CONTROL DIVISION

ASBESTOS LICENSING SECTION
REVISED JULY 1996

PHYSICIAN'S WRITTEN STATEMENT
MEDICAL SURVEILLANCE FOR ASBESTOS EXPOSURE
(Revised July 1996)

APPLICANT'S NAME: Gill (Last) Tom (First) M (M.I.)

ADDRESS: 1073 Lakehaven Dr (Street) Denton (City) TX (State) 76208 (Zip)

SOCIAL SECURITY #: 453 19 7707 TELEPHONE #: 940 320 5311

The above-named individual was seen on 4-17-00, in accordance with:

(1) ✓ 29 CFR 1926.1101 OR (2) _____ 40 CFR 763.121

INDICATE WHICH ITEMS WERE PERFORMED WITH PHYSICIAN'S OR ASSISTANT'S **INITIALS**:

JG Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per part 1 and 2 of Appendix D in 1926.1101.

JG If employed, the employer provided, and review was made of, the employer's description of this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, the personal protective and respiratory equipment to be utilized by the employee, and information from previous medical examinations of the affected employee that is not otherwise available to the physician.

JG A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.

JG The pulmonary function tests of forced vital capacity (FVC) and forced expiratory volume at one second (FEV 1) in accordance with NIOSH and ATS standards.

JG Indicate whether or not the physician decided that an x-ray was required: _____ yes or _____ no, and if an x-ray was performd: ✓ yes or _____ no. A chest roentgenogram, posterior-anterior, 14" x 17" or current film on file with interpretation in accordance with 29 CFR 1926.1101, Appendix E. NOTE: According to 29 CFR 1926.1101(M)(2)(ii)(C), the requirement for a chest x-ray is at the physician's discretion.

JG The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including tbe increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that no medical conditions were detected that would place the employee at an increased risk of material health impairment from exposure to asbestos, and no limitations are recommended on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations, if any: None

Jose G Irevino m 214)630-1144

Physician's Signature | Print Physician's Name | Telephone

MED ALERT INDUSTRIAL HEALTH CENTER
3141 IRVING BLVD.
DALLAS, TEXAS 75247

Street Address | City | State | Zip

LABORATORIES

TEXAS
DEPARTMENT OF HEALTH

BE IT KNOWN THAT

CRISP ANALYTICAL LABORATORIES, LLC.

is Licensed and authorized to perform as an

Asbestos Laboratory
PLM, TEM, PCM

in the State of Texas within the purview of Texas Civil Statutes, Article 4477-3a, as amended, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

30-0235
License Number

09/17/2000
Issue Date

09/16/2001
Expiration Date

This certificate is void after expiration date.

Todd F. Wingler, P.E.
Chief, Asbestos Programs Branch
Occupational Safety and Health Division

William R. Archer III, M.D.
Commissioner of Health

VOID IF ALTERED NON-TRANSFERABLE

53576

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

CRISP ANALYTICAL LABORATORY
CARROLLTON, TX

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

September 30, 2001
Effective through

David F. Alderman
For the National Institute of Standards and Technology

NVLAP Lab Code: 200349-0

TEXAS
DEPARTMENT OF HEALTH

BE IT KNOWN THAT

QUEST MICRO ANALYTICS

is Licensed and authorized to perform as an

Asbestos Laboratory
PLM, TEM

in the State of Texas within the purview of Texas Civil Statutes, Article 4477-3a, as amended, so long as this License is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

30-0218
License Number

08/05/1999
Issue Date

08/04/2000
Expiration Date

This certificate is void after expiration date.

Todd F. Wingler, P.E.
Chief, Asbestos Programs Branch
Occupational Safety and Health Division

William R. Archer III, M.D.
Commissioner of Health

VOID IF ALTERED NON-TRANSFERABLE

46424

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

QUEST MICROANALYTICS
DALLAS, TX

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

June 30, 2000
Effective through

For the National Institute of Standards and Technology

NVLAP Lab Code: 200249-0

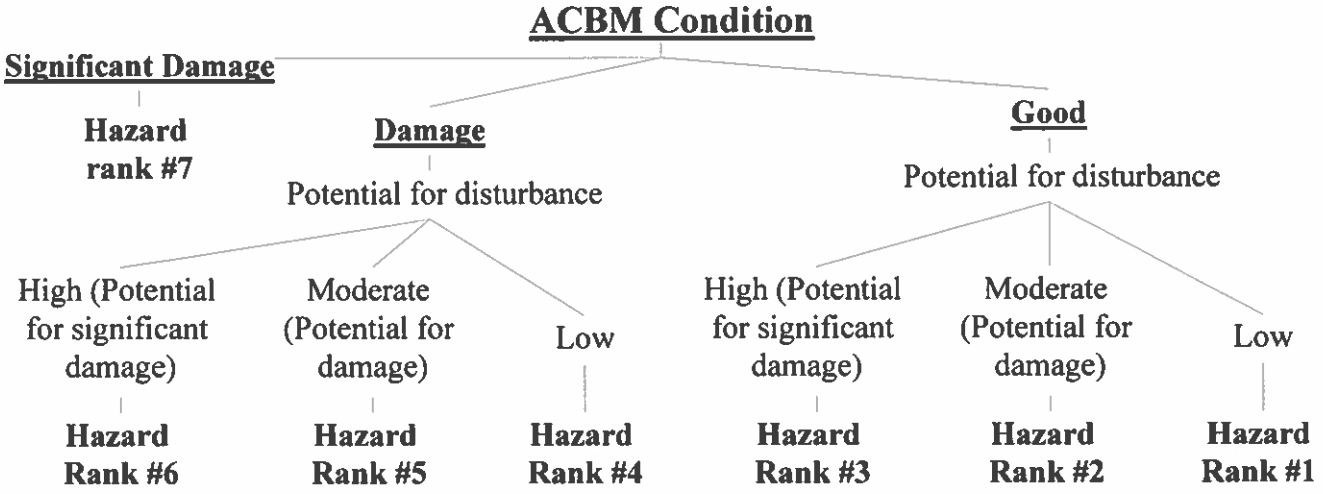
APPENDICES

RESPONSE ACTIONS BASED ON HAZARD RANKING

HAZARD RANK	REMOVAL PRIORITY	AHERA CATEGORIES	RESPONSE ACTIONS REQUIRED BY AHERA
7	1	Significantly Damaged	Evacuate or isolate the area if needed. Remove the ACBM (or enclose or encapsulate if sufficient to contain fibers). Repair of thermal system insulation is allowed if feasible and safe. Operations and maintenance plan required for all friable asbestos containing building materials.
6	2	Damaged plus potential for significant damage	Evacuate or isolate the area if needed. Remove, enclose, encapsulate, or repair to correcte damage. Take steps to reduce potential for disturbance. Operations and maintenance plan required for all friable asbestos containing building materials..
5	3	Damaged plus potential for damage	Remove, enclose, encapsulate, or repair to correct damage. Take steps to reduce potential for disturbance. Operations and maintenance plan required for all friable asbestos containing building materials.
4	4	Damaged	Same as Hazard Rank 5
3	5	Potential for significant damage	Evacuate or isolate the area if needed. Take steps to reduce potential for disturbance. Operations and maintenance plan required for all friable asbestos containing building materials.
2	6	Potential for damage	Operations and maintenance plan required for all friable asbestos containing building materials.
1	7	No problem	Operations and maintenance plan required for all friable asbestos containing building materials, but measures need not be as extensive as above.

NOTE: AHERA does not account for combinations of current and potential damage (i.e. hazard ranks #5 and 6). The response actions shown are combinations of those required for each condition.

CLASSIFICATIONS FOR HAZARD POTENTIAL (DECISION TREE DISPLAY)



HOMOGENEOUS AREA CODES

MATERIAL CATEGORY	MATERIAL TYPE	CODE
Miscellaneous Material	Building Insulation	MBI
Miscellaneous Material	Carpet Mastic	MCPT
Miscellaneous Material	Caulk	MC
Miscellaneous Material	Ceiling Tile	MCT
Miscellaneous Material	Cloth/Rope	MCTH
Miscellaneous Material	Counter/Furniture Surfaces	MCS
Miscellaneous Material	Curtains (fire)	MCU
Miscellaneous Material	Door Insulation	MDI
Miscellaneous Material	Electrical Insulation	MEI
Miscellaneous Material	Flex Connector	MFC
Miscellaneous Material	Floor Tile	MFT
Miscellaneous Material	Grout	MG
Miscellaneous Material	Linoleum	MLN
Miscellaneous Material	Mastic	MM
Miscellaneous Material	Other Miscellaneous	MO
Miscellaneous Material	Roofing Material	MR
Miscellaneous Material	Sheet Rock	MSR
Miscellaneous Material	Substrate	MSS
Miscellaneous Material	Tape	MTP
Miscellaneous Material	Transite	MTRB
Miscellaneous Material	Wall Tile	MWT
Miscellaneous Material	Wallboard	MWB
Miscellaneous Material	Window Glazing	MWG
Surfacing Material	Exterior Coat	SMXC
Surfacing Material	Fireproofing	SMF
Surfacing Material	Other Surfacing	SO
Surfacing Material	Paint	SMP
Surfacing Material	Spray-on Material	SMSM
Surfacing Material	Tape Compound	SMTC
Surfacing Material	Texturizer	SMT
Surfacing Material	Topcoat	SMCT
Thermal System Insulation	Elbow Wrap	EW
Thermal System Insulation	Freezer Insulation	FI
Thermal System Insulation	HVAC Insulation	AC
Thermal System Insulation	Other TSI	TO
Thermal System Insulation	Pipe "T"	TW
Thermal System Insulation	Pipe Insulation	PR
Thermal System Insulation	Tank Insulation	TI

INSPECTOR'S ASSURANCES

The person who conducted this inspection has successfully completed an EPA approved training course on the inspection of buildings for asbestos containing materials. Current state and federal regulations regarding such inspections were followed by the inspector, as applicable to this particular inspection.

Name of Inspector (Printed): **Charles Thorn**

Inspector's Signature:

Name of Inspector (Printed): **Steven E. Robb**

Inspector's Signature:

Name of Inspector (Printed): **Tom Gill**

Inspector's Signature:

Name of Inspector (Printed): **Denny E. Walker**

Inspector's Signature:

Certificate/License number: See Personnel and Laboratory Licenses section of this report.

Date of Certification: See Personnel and Laboratory Licenses section of this report.

ESESIS and NORTH AMERICAN ANALYTICAL LABS Inc.

Guide to Reading Report

Report Number: 200035007 **Project Number:** ACM-2000-01

This instruction page is included with each report to explain the structure of the report and to enable clients to interpret our sample numbering system. If you have any questions after reading this report or if anything in it is not clear to you please do not hesitate to call us.

Following this instruction page you will find a written summary which describes and interprets the detailed information found in the rest of the report. It begins with a brief description of the building's construction and a history of any major structural changes in the site (PAST SITE HISTORY / CONSTRUCTION) . This is followed by the ASBESTOS CONTAINING MATERIAL SUMMARY section which describes the methods used to inspect the building and analyze samples. This section also contains a detailed description of the nature of any asbestos containing materials (ACM) including their appearance, location, the approximate quantity present, and a hazard rank ranging from 1 (no immediate danger) to 7 (substantial health risk). The next section, CONCLUSIONS AND RECOMMENDATIONS, gives you our professional opinion as to which areas of the building represent the greatest problem and ways in which these problems may be addressed. The final section of the summary, LIMITATIONS AND REPRODUCTIONS, is designed to inform you of the scope of the inspection and any qualifications which should be used in interpreting its results.

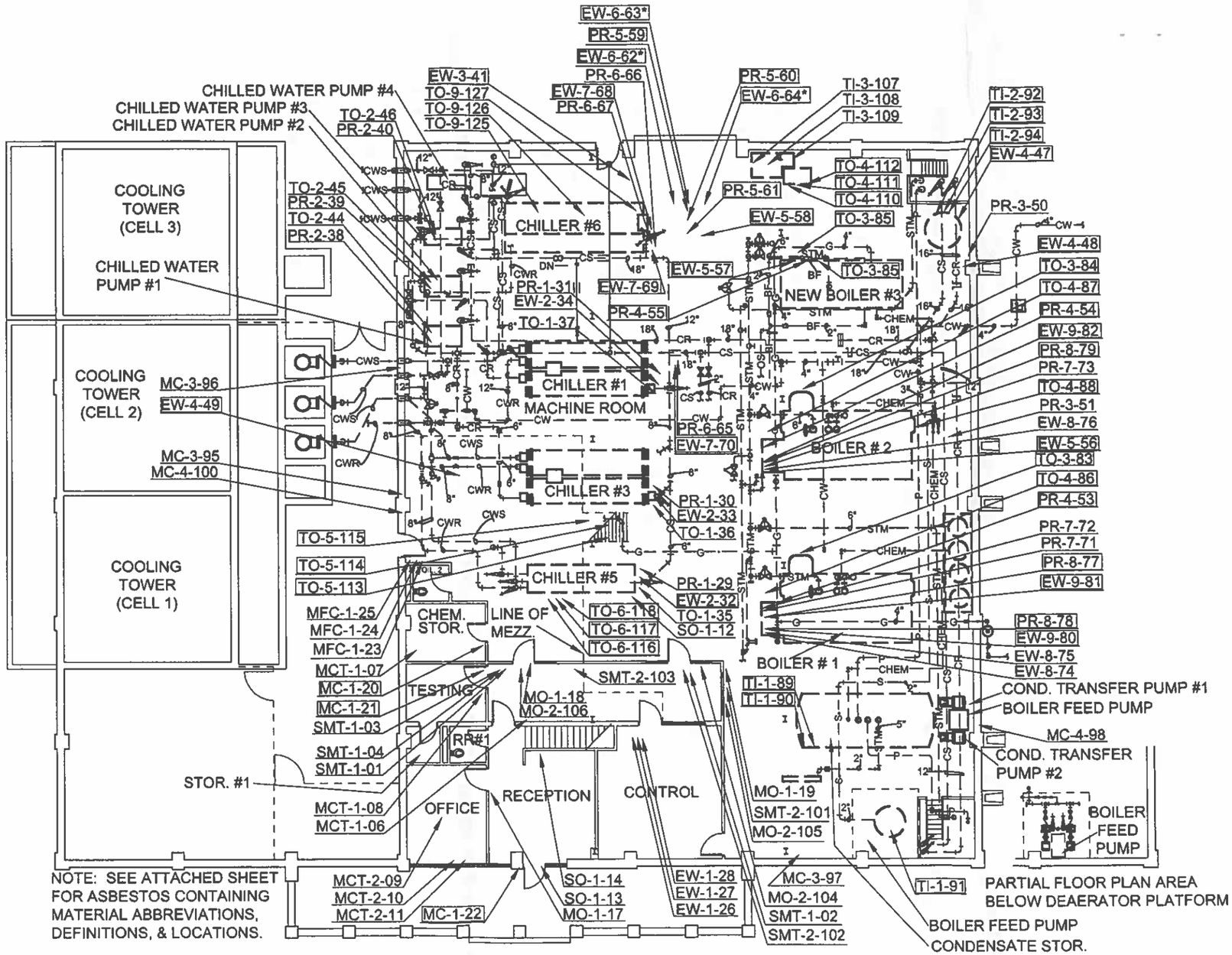
The HOMOGENEOUS AREA REPORT provides a detailed description of each sample of material collected during the inspection. The BULK SAMPLE REPORT includes a cover letter, detailed results for each sample analyzed, and a summary which shows which samples contained asbestos and which did not. APPENDICES which follow the report include a description of ESESIS' homogeneous area codes and a detailed explanation of hazard ranks.

The following is an explanation of the numbering system ESESIS uses to label each sample listed in the summary and homogeneous area reports. Each begins with the unique control number assigned by the laboratory to each sample analyzed. Next the code describing the type of homogeneous area from which the sample was taken is given (codes are explained on the homogeneous area code list included in the appendices). This code may be preceded by an "SA" which indicates that this is a salient (isolated) homogeneous area. The code is also followed by a number used to distinguish the area from others of the same type. Next comes the field sample number assigned to the sample by the inspector when it was collected. The entire number is concluded with the project number or designation, if any, which distinguishes this inspection from any others that may be conducted for the same client.

Once again, if you have any trouble interpreting the information you find in this report please do not hestitate to call us. We at ESESIS appreciate your business.

LEGEND

BF	BOILER FEED	—BF—
CHEM	CHEMICAL	—CHEM—
CHR	CHILLED/HOT WATER RETURN	—C/HR—
CHS	CHILLED/HOT WATER SUPPLY	—C/HS—
CR	COLD WATER RETURN	—CR—
CS	COLD WATER SUPPLY	—·—
CW	CHILLED WATER	—CW—
CWR	CONDENSING WATER RETURN	—CWR—
CWS	CONDENSING WATER SUPPLY	—CWS—
D	DRAIN	—D—
G	GAS	—G—
HS	HOT SUPPLY	—··—
HR	HOT RETURN	—···—
OS	OIL SUPPLY	—OS—
OR	OIL RETURN	—OR—
P	PRESSURE RELIEF LINE	—P—
S	SOFTENED COLD WATER	—S·—
STM	STEAM	—STM—



NOTE: SEE ATTACHED SHEET FOR ASBESTOS CONTAINING MATERIAL ABBREVIATIONS, DEFINITIONS, & LOCATIONS.

CENTRAL PLANT - FIRST FLOOR PLAN

SCALE: 1/16" = 1'-0"

NORTH

CHARLES F. HARPER #2273
EXPIRES: 31 JULY 2001
REGISTERED ARCHITECT
STATE OF TEXAS
RECORD ONLY - NOT FOR CONSTRUCTION
RALPH B. PERKINS #8871
EXPIRES: 31 JULY 2001
DATE SIGNED:

HPA
HARPER PERKINS ARCHITECTS, INC
4724 OLD JACKSBORO HIGHWAY
WICHITA FALLS, TEXAS 76302-3599

CENTRAL PLANT
MIDWESTERN STATE UNIVERSITY
WICHITA FALLS, TEXAS
3410 TAFT BLVD.

ESESIS
11022 FM 3326 SOUTH
HAWLEY, TX 79525
(915)793-7255 tel.
(915)695-8455 fax

DRAWN BY W Perkins
DATE 4-7-2000
REVISIONS

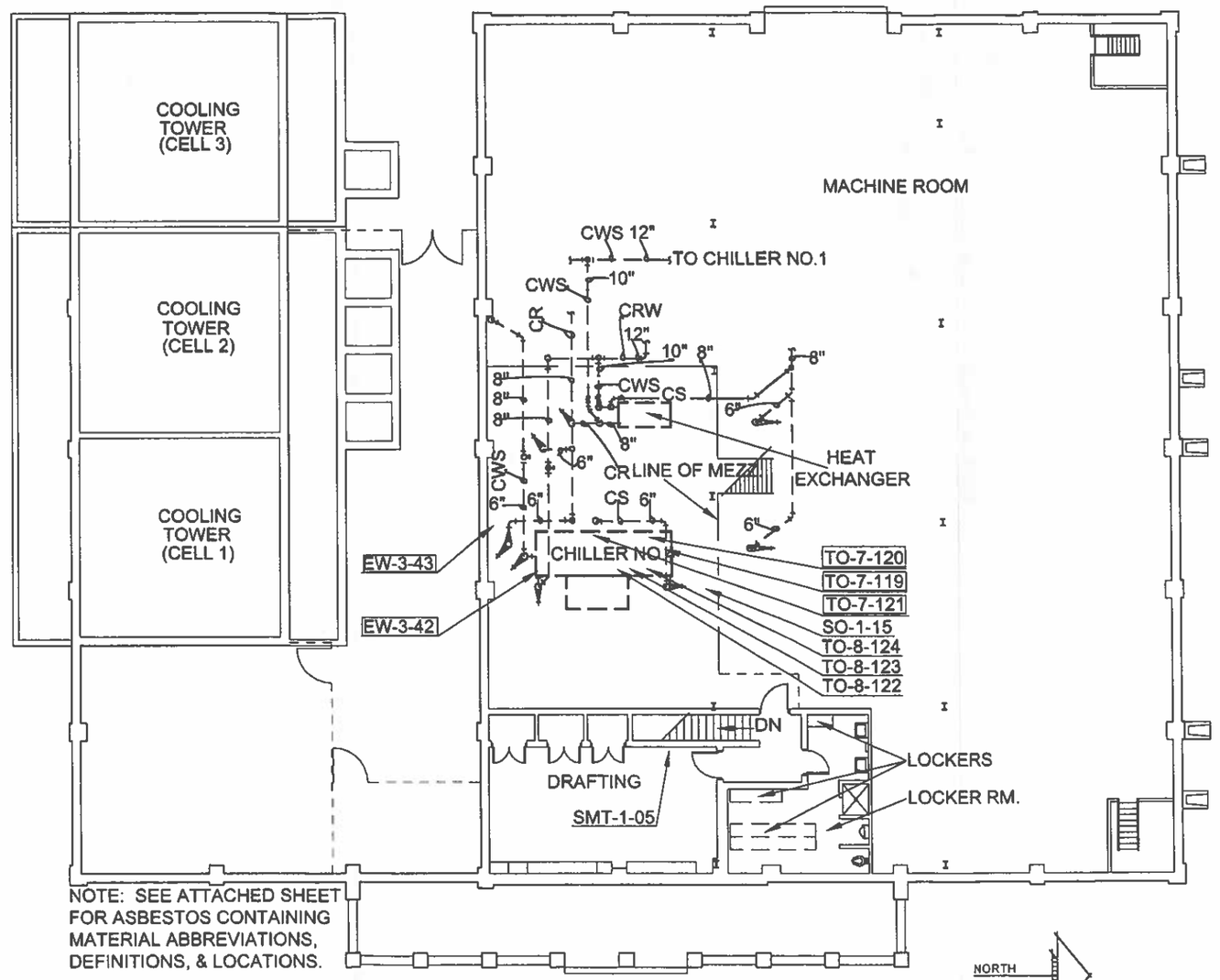
NO	DESCRIPTION	DATE

00251

CNTRL. PLNT.
101

LEGEND

BF	BOILER FEED	—BF—
CHEM	CHEMICAL	—CHEM—
CHR	CHILLED/HOT WATER RETURN	—C/HR—
CHS	CHILLED/HOT WATER SUPPLY	—C/HS—
CR	COLD WATER RETURN	—CR—
CS	COLD WATER SUPPLY	—·—
CW	CHILLED WATER	—CW—
CWR	CONDENSING WATER RETURN	—CWR—
CWS	CONDENSING WATER SUPPLY	—CWS—
D	DRAIN	—D—
G	GAS	—G—
HS	HOT SUPPLY	—··—
HR	HOT RETURN	—···—
OS	OIL SUPPLY	—OS—
OR	OIL RETURN	—OR—
P	PRESSURE RELIEF LINE	—P—
S	SOFTENED COLD WATER	—S·—
STM	STEAM	—STM—



CENTRAL PLANT - SECOND FLOOR PLAN

SCALE: 1/16" = 1'-0"

CHARLES F. HARPER #2273
EXPIRES: 31 JULY 2001
REGISTERED ARCHITECT
STATE OF TEXAS
RECORD ONLY, NOT FOR CONSTRUCTION
RALPH B. PERKINS #5871
EXPIRES: 31 JULY 2001
DATE SIGNED

AIA HPA ARCHITECTS PROGRAMMERS PLANNERS
HARPER PERKINS ARCHITECTS, INC
4724 OLD JACKSBORO HIGHWAY
WICHITA FALLS, TEXAS 76302-3599
VOICE 940 767 1421 FAX 940 397 6273
E-MAIL hparch@pfn.net WEB http://www.pfn.net/~hparch

CENTRAL PLANT
MIDWESTERN STATE UNIVERSITY
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