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ASBESTOS INSPECTION VANDER WERF HALL

PREPARED FOR: HOPE COLLEGE HOLLAND, MICHIGAN

SEPTEMBER 13, 2007 PROJECT NO. G07453E

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Appendix **Analytical Reports**

LIST OF ABBREVIATIONS/ACRONYMS

ACM	asbestos containing material
CFR	Code of Federal Regulations
COC	chain of custody
EPA	U.S. Environmental Protection Agency
FTC&H	Fishbeck, Thompson, Carr & Huber, Inc.
MDEQ	Michigan Department of Environmental Quality

INTRODUCTION

FTC&H was retained by Hope College to conduct an asbestos inspection of Vander Werf Hall, located at 27 Graves Place, Holland, Michigan. Based on the information that was provided to FTC&H, the following is known about the facility:

- Original date of construction was not available.
- Building is two stories with a basement.
- Building materials:
 - o Floors vinyl tile, carpet over vinyl tile, carpet, ceramic tile, or cement.
 - Walls block, drywall, and plaster.
 - Exterior masonry walls with flat roof.
 - o Ceilings open, suspended, and glued on ceilings.
- Steam fed forced air heating system.
- The facility is used as offices, classrooms, and laboratories.

The inspection was conducted according to the protocol described in the Asbestos Construction Standard, 29 CFR 1926.1101. The inspection did not include: roofing materials; destructive sampling; equipment; fiberglass; steel; concrete/mortar/block; ceramic tile; nor inaccessible areas/materials. For purposes of this report, fire doors and hatches and transite countertops were assumed to contain asbestos.

The inspection was conducted on May 30, 2007, in accordance with the Environmental Health Resources, Inc. proposal dated October 25, 2005.

CERTIFICATION

The building inspection was lead by a State of Michigan accredited Asbestos Building Inspector, Mr. Mark A. Lutkenhoff, Accreditation Number A12430. All samples were sent under COC to an independent laboratory for analyses.

INSPECTION PROCEDURES AND SAMPLING METHODOLOGY

The inspection was conducted in a room-by-room fashion. According to the standard, all materials were considered suspect ACMs for sampling purposes. For the purposes of this report, the terms homogeneous area and homogeneous material are used interchangeably. Homogeneous material numbers were arbitrarily selected depending on when they were first identified. The number of samples collected from each homogeneous material was determined depending on the type of material. For

ficeh

example, at least 3 samples were collected from thermal system insulation. Surfacing materials were sampled according to the size: 3 samples were collected from a material covering less than 1,000 square feet; 5 samples were collected from areas covering 1,001 to less than 3,000 square feet; 7 samples were collected from areas covering more than 3,000 square feet. A minimum of 1 sample was collected from miscellaneous materials. Sample locations were randomly selected by the inspector at the time of the inspection.

The laboratory was instructed to discontinue analyzing samples from a homogeneous material when the first asbestos-containing sample was identified. All layers of the submitted sample were analyzed. Samples with detectable levels of asbestos below the 1% threshold for ACM were, at the request of Hope College and as recommended by the MDEQ, reanalyzed using the EPA Point Count (400 Points) method.

Since only non-destructive sampling methods were employed, FTC&H was unable to collect samples from transite counter tops, fire doors, 1' x 1' glued-on ceiling tile (white with pinholes and fissures), and glue pods attached to 1' x 1' glued-on ceiling tile. These materials should be treated as suspect ACM until samples can be collected.

Mechanical systems were identified and sampled independently as best as could be determined in the field. Fitting insulation was considered a specific part of a mechanical system depending upon the type of insulation (e.g., fiberglass, aircell, mag, etc.).

RESULTS

A total of 29 unique homogeneous materials were identified during the inspection, resulting in 41 samples collected and 64 analyses (including layers). As a result, 7 homogeneous materials were found to be asbestos containing (greater than 1% asbestos by weight). Two homogeneous materials were found to contain a detectable level of asbestos less than 1% asbestos, and were re-analyzed using the EPA Point Count (400 Points) method. These homogeneous materials were confirmed to contain less than 1% asbestos by weight.

Table 1 identifies the homogeneous materials found as a result of the inspection and their corresponding identification number. Table 2 describes each of the sample locations and whether the sample contains asbestos. Table 3 identifies the location and quantities of ACM, and Table 4 is a summary of the asbestos-containing homogeneous materials.

CONCLUSIONS

On May 30, 2007, FTC&H conducted an asbestos inspection of Vander Werf Hall located at 27 Graves Place, Holland, Michigan. Seven of the 26 unique homogeneous materials submitted for laboratory analysis were found to contain greater then 1% asbestos by weight. Two additional materials had a detectable level of asbestos of less than 1% by weight, and were submitted for EPA Point Count (400 points) analysis. These materials were confirmed to contain less than 1% asbestos by weight. A total of 9 materials were found to contain asbestos at greater than 1% asbestos by weight (fire doors and transite countertops were assumed to be asbestos containing). 1' x 1' Glued-on ceiling tile-white with pinholes and fissures, and glue pods attached to 1' x 1' glued-on ceiling tile were not sampled and should be treated as suspect ACM until samples can be collected.

Figures

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VW-6-2 14

15 **VW-6-3**

fiCeh

engineers scientists

architects

constructors

fishbeck, thompson carr & huber, inc.

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Asbestos Inspection Report

Hope College - Vanderwerf Hall

PROJECT NO. G07453E

FIGURE NO.

SAMPLE LOCATION MAP GROUND FLOOR



ficeh

engineers scientists

architects

constructors

fishbeck, thompson carr & huber, inc.

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Asbestos Inspection Report

Hope College - Vanderwerf Hall

PROJECT NO. G07453E

FIGURE NO. 2

SAMPLE LOCATION MAP FIRST FLOOR

..\REF\B-11X17 ..\REF\GX0007453E.DWG ..\REF\GX0107453E.DWG

f1Ceh

engineers

architects

constructors

fishbeck, thompson, carr & huber, inc.

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Asbestos Inspection Report

PROJECT NO. G07453E

FIGURE NO.

Tables

Table 1 - Description of Homogeneous Materials

Asbestos Inspection

Hope College-Vander Werf Hall May 30, 2007

HA Number	Material Description	Material Type	Asbestos Containing
VW-1	12" VAT-White with grey and black spots	MM	N
W-2	2' x 2' Ceiling Tile-White with pinholes	MM	N
777-2	2' x 2' Ceiling Tile-White with pinholes and		
VW-3	fissures	MM	N
1110	2' x 2' Ceiling Tile-White with pinholes and long		
W-4	fissures	MM	l N
VW-5	Fittings on fiberglass insulated pipe	TSI	Y
VW-6	Plaster	SM	Ň
W-7	9" VAT-Beige	MM	Y
W-8	Vinyl Base-Black	MM	N
VW-9	Vinyl Base-Grey	MM	N
VW-10	Vinyl Base-Brown	MM	N
VW-10	2' x 2' VAT-Brown	MM	N
VW-12	Vinyl Stair Tread-Grey	MM	N
VW-13	Vinyl Stair Tread-Beige	MM	N
VW-14	1' x 1' Glued-On Ceiling Tile-White with pinholes	SM	< 1%
VW-15	Mag Pipe Insulation	TSI	Y
	1 'x 1' Z-Spline Ceiling Tile-White with fissures and		
VW-16	pinholes	MM	l Y
VW-17	VAT under carpet	MM	Y
VW-18	9" VAT-Off white with brown streaks	MM	Y
VW-19	2' x 2' Ceiling Tile-White with pinholes and large fissures	ММ	Y
VW-20	Transite CounterTops	MM	Assumed
V V V-ZU	Transite Counter (ops	IAIIAI	Assumed
VW-21	2'x4' Ceiling Tile-White with pinholes and fissures	MM	N
VW-22	12" VAT-Various shades of brown	MM	N
	1' x 1' Glued-On Ceiling Tile-White with pinholes		
VW-23	and fissures	SM	Assumed
VW-24	12" VAT-Beige with brown and dark brown streaks	ММ	< 1%
VV-24 VW-25	Drywall and Drywall Joint Compound	SM	N N
V V V-23	Diywaii and Diywaii Josit Compound	SIVI	 - '\
VW-26	12" VAT-Off white with brown and white streaks	ММ	N N
VW-27	Masonry caulk	MM	N
VW-28		MM	N
VW-29	Fire Doors and Hatches	MM	Assumed

Homogeneous Area HA Miscellaneous Material Thermal System Insulation TSI SM Surfacing Material VAT Vinyl Asbestos Tile

Table 2 - Bulk Sample Location Log Asbestos Inspection Hope College-Vander Werf Hali

HA		4	actaeda	
Number	Sample Location	ſ	%	Notes
VW-1-1A	Room 17/21	1	lone Detected	Tile
	2' x 2' Ceiling Tile-White with pinholes		None Detected	Mastic
	2' x 2' Ceiling Tile-White with pinholes and fissures		None Detected	
	2' x 2' Ceiling Tile-White with pinholes and long fissures		Vone Detected	
VW-3-2 VW-4-1	1st floor vestibule Room 17/21		Vone Detected	
	Room 22	_	Chrysotile	
VW-5-2	Crawl space by room 202, piping			Stopped at 1st positive
VW-5-3	Access panel in ground floor hall adjacent to men's restroom			Stopped at 1st positive
	Room 11		None Detected	
	2' x 2' VAT-Brown		None Detected	
	Room 11		None Detected	
VW-8-2A	Room 14			
VW-6-2B	1' x 1' Glued-On Ceiling Tile-White with pinholes		None Detected None Detected	
VW-8-2C VW-8-3A	Room 14 1 'x 1' Z-Spline Ceiling Tite-White with fissures and pinholes		None Detected	
	Room 15		None Detected	
VW-6-3C	Room 15		None Detected	Brown coat
VW-8-4A	2' x 2' Ceiling Tile-White with pinholes and large fissures		None Detected	
	Room 219		None Detected	
VW-8-4C	Room 219		None Detected	
VW-6-5A VW-6-5B	Room 217B 1' x 1' Glued-On Ceiling Tile-White with pinholes and fissures		None Detected	
	Room 217B		None Detected	
	Room 210		None Detected	
	Room 210		None Detected	
	Room 210		None Detected	
W-6-7A			None Detected	
VW-6-7B VW-6-7C	Room 237 Room 237		None Detected	
444-0-1C	INOGHI 237		Chrysotile	Tile
·			None Detected	
			None Detected	
			None Detected	
	West Stairwell		None Detected	
	West Stairweil West Stairweil		None Detected	Masuc
	West Stairweil		None Detected	
	West Stairwell		None Detected	
VW-14-1	1st Floor phone closet		Chrysotile	
VW-14-2	1st Floor phone closet		Chrysotile	
VW-14-2 VW-14-3	1st Floor phone closet	< 1% (Chrysotile	
VW-14-2 VW-14-3 VW-15-1	1st Floor phone closet Room 22	< 1% (15% /	Chrysotile Amosite	
VW-14-2 VW-14-3 VW-15-1 VW-15-1	1st Floor phone closet Room 22 Room 22	< 1% (15% / 5% (Chrysotile Amosite Chrysotile	Stopped at 1st positive
VW-14-2 VW-14-3 VW-15-1 VW-15-1 VW-15-2 VW-15-3	1et Floor phone closet Room 22 Room 22 East-west tunnel Room 22	< 1% (15% / 5% (Chrysotile Amosite Chrysotile Not Analyzed Not Analyzed	Stopped at 1st positive Stopped at 1st positive
VW-14-2 VW-14-3 VW-15-1 VW-15-1 VW-15-2 VW-16-3 VW-16-1	1et Floor phone closet Room 22 Room 22 Rest-west tunnel Room 22 Hellway outside rooms 102 - 104	< 1% (15% / 5% (1 5% /	Chryaotile Amosite Chryaotile Not Analyzed Not Analyzed Amosite	Stopped at 1st positive
VW-14-2 VW-14-3 VW-15-1 VW-15-1 VW-16-2 VW-16-3 VW-16-1 VW-17-1A	1st Floor phone closet Room 22 Room 22 East-west tunnel Room 22 Hallway outside rooms 102 - 104 Room 102	< 1% (15% / 5% (5% / 4% (Chryaotile Amosite Chrysotile Not Analyzed Not Analyzed Amosite Chrysotile	Stopped at 1st positive Tile
VW-14-2 VW-14-3 VW-15-1 VW-15-1 VW-16-2 VW-16-3 VW-16-1 VW-17-1A VW-17-1B	1st Floor phone closet Room 22 Room 22 East-west tunnel Room 22 Hallway outside rooms 102 - 104 Room 102 Room 102	15% / 15% / 5% / 5% /	Chrysottle Amosite Chrysottle Not Analyzed Not Analyzed Amosite Chrysottle None Detected	Stopped at 1st positive Tile Mastic
VW-14-2 VW-14-3 VW-15-1 VW-15-1 VW-16-2 VW-16-3 VW-16-1 VW-17-1A VW-17-1B VW-18-1A	1et Floor phone closet Room 22 Room 22 East-west tunnel Room 22 Hallway outside rooms 102 - 104 Room 102 Room 102 Room 102 Room 105	< 1% (15% / 5% (5% (4% (Chrysotile Amosite Chrysotile Not Analyzed Amosite Chrysotile None Detected Chrysotile Chrysotile	Stopped at 1st positive Tile Mastic Tile
VW-14-2 VW-14-3 VW-15-1 VW-15-1 VW-16-3 VW-16-1 VW-17-1A VW-17-18 VW-18-1A VW-18-1B	1et Floor phone closet Room 22 Room 22 East-west tunnel Room 22 Hallway outside rooms 102 - 104 Room 102 Room 102 Room 102 Room 105	15% / 15% / 5% (5% / 4% (Chrysottle Amosite Chrysottle Not Analyzed Not Analyzed Amosite Chrysottle None Detected	Stopped at 1st positive Tile Mastic Tile
W-14-2 VW-14-3 VW-15-1 VW-15-1 VW-15-2 VW-16-3 VW-16-3 VW-17-18 VW-17-18 VW-18-1A VW-18-1A VW-18-1A VW-19-1 VW-20	1et Floor phone closet Room 22 Room 22 East-west tunnel Room 22 Hallway outside rooms 102 - 104 Room 102 Room 102 Room 105 Room 105	< 1% (15% / 5% (5% (4% (10% /	Chrysottle Amoeite Chrysottle Not Analyzed Not Analyzed Amoeite Chrysottle None Detected Chrysottle Amoeite Chrysottle Amoeite Amoeite Amoeite None Detected Amoeite Not Analyzed	Stopped at 1st positive Tile Mastic Tile
W-14-2 VW-14-3 VW-15-1 VW-15-1 VW-15-2 VW-16-3 VW-16-3 VW-17-18 VW-17-18 VW-18-18 VW-18-18 VW-18-18 VW-18-18 VW-18-18 VW-18-18 VW-18-18 VW-18-18 VW-18-18	1et Floor phone closet Room 22 East-west tunnel Room 22 Hallway outside rooms 102 - 104 Room 102 Room 102 Room 105 Room 105 Room 105 Room 106 No sample collected Room 14/16	< 1% (15% / 15% /	Chrysottle Amostite Chrysottle Not Analyzed Not Analyzed Amostite Chrysottle None Detected Chrysottle None Detected Amostite Amostite None Detected Amostite None Detected Amostite None Detected Amostite None Detected	Stopped at 1st positive Tile Mastic Tile Mastic
W-14-2 W-14-3 W-16-1 W-16-1 W-16-2 W-16-3 W-16-3 W-16-1 W-17-18 W-18-18 W-18-18 W-19-1 W-20 W-20-1	1et Floor phone closet Room 22 Room 22 East-west tunnel Room 22 Hallway outside rooms 102 - 104 Room 102 Room 105 Room 105 Room 105 Room 105 Room 105 Room 14 Room 14 Room 14 Room 14	< 1% (15% / 15% / 5% (15% / 15% / 15% / 15% / 15% / 15% / 15% (15% / 15%	Chrysottle Amosite Chrysottle Not Analyzed Not Analyzed Amosite Chrysottle None Detected Chrysottle None Detected Amosite None Detected Amosite Not Analyzed None Detected None Detected None Detected None Detected	Stopped at 1st positive Tile Mastic Tile Mastic Transite counter tops assumed positive
W-14-2 W-14-3 W-15-1 W-15-1 W-15-2 W-16-3 W-16-1 W-17-14 W-17-14 W-18-14 W-18-14 W-18-14 W-18-17 W-18-18 W-18-	1st Floor phone closet Room 22 Room 22 Room 22 East-west tunnel Room 22 Hallway outside rooms 102 - 104 Room 102 Room 105 Room 105 Room 105 Room 105 Room 105 Room 1416 Room 14/16 Room 14	< 1% (15% / 15% / 5% (15% / 15% / 15% / 15% / 15% / 15% / 15% (15% / 15%	Chrysotile Amosite Chrysotile Not Analyzed Not Analyzed Amosite Chrysotile None Detected Chrysotile None Detected Amosite None Detected Amosite Not Analyzed None Detected	Stopped at 1st positive Tile Mastic Tile Mastic Transite counter tops assumed positive Celling tile and glue pods assumed positive
W-14-2 W-14-3 W-15-1 W-15-1 W-15-2 W-16-3 W-16-3 W-16-1 W-17-18 W-17-18 W-18-14 W-18-14 W-18-14 W-20 W-21-1 W-22-1 W-23 W-24-1A	1et Floor phone closet Room 22 Room 22 Room 22 Hallway outside rooms 102 - 104 Room 102 Room 102 Room 105 Room 105 Room 105 Room 105 Room 106 No sample collected Room 14/15 Room 14 No sample collected Room 6	< 1% (15% / 15% /	Chrysotile Amosite Chrysotile Not Analyzed Not Analyzed Amosite Chrysotile None Detected Chrysotile None Detected Amosite None Detected Amosite None Detected None Detected None Detected None Detected None Detected None Detected Chrysotile	Stopped at 1st positive Title Mastic Title Mastic Transite counter tops assumed positive Ceiling title and glue pods assumed positive Title
W-14-2 W-14-3 W-15-1 W-15-1 W-15-2 W-16-3 W-16-1 W-17-14 W-17-14 W-18-14 W-18-14 W-18-14 W-18-17 W-18-18 W-18-	1et Floor phone closet Room 22 East-west tunnel Room 22 Hallway outside rooms 102 - 104 Room 102 Room 102 Room 105 Room 105 Room 105 Room 106 Room 14/15 Room 14/16 Room 14 No sample collected Room 6 Room 6	< 1% (15% / 5% (5% (4% (6% (10% /	Chrysottle Amosite Chrysottle Not Analyzed Not Analyzed Not Analyzed Amosite Chrysottle None Detected Chrysottle None Detected Amosite None Detected	Stopped at 1st positive Tile Mastic Tile Mastic Transite counter tops assumed positive Ceiling tile and glue pode assumed positive Tile Mastic Drywall
W-14-2 VW-14-3 VW-15-1 VW-15-1 VW-16-2 VW-16-3 VW-16-1 VW-17-1A VW-17-18 VW-18-1A VW-18-1B VW-19-1 VW-20 VW-21-1 VW-22-1 VW-23 VW-24-1A VW-24-1A VW-25-1B	1st Floor phone closet Room 22 Room 22 Room 22 East-west tunnel Room 22 Hallway outside rooms 102 - 104 Room 102 Room 105 Room 105 Room 105 Room 106 No sample collected Room 14/16 Room 14/16 Room 6 Room 6 Room 6 Room 6 Room 131 Room 131	< 1% (15% / 5% (5% (4% (6% (10% / 10% /	Chrysotile Amosite Chrysotile Not Analyzed Not Analyzed Not Analyzed Amosite Chrysotile None Detected Chrysotile None Detected Amosits Not Analyzed None Detected	Stopped at 1st positive Title Mastic Title Mastic Transite counter tops assumed positive Ceiling tile and glue pods assumed positive Title Mastic Drywall Joint compound
W-14-2 VW-14-3 VW-15-1 VW-15-1 VW-15-2 VW-16-1 VW-16-3 VW-16-1 VW-17-18 VW-18-18 VW-18-18 VW-18-18 VW-20 VW-21-1 VW-22-1 VW-23 VW-24-18 VW-24-18 VW-25-18 VW-25-18	1et Floor phone closet Room 22 Room 22 East-west tunnel Room 22 Hallway outside rooms 102 - 104 Room 102 Room 105 Room 105 Room 105 Room 105 Room 105 No sample collected Room 14/15 Room 14 No sample collected Room 6 Room 6 Room 6 Room 131 Room 131 Room 219, column	<1% (15% / 15% / 5% (15% / 15%	Chrysotile Amositie Chrysotile Not Analyzed Not Analyzed Not Analyzed Amosite Chrysotile None Detected Chrysotile None Detected Amosite None Detected Amosite None Detected	Stopped at 1st positive Tile Mastic Transite counter tops assumed positive Ceiling tile and glue pods assumed positive Tile Mastic Drywall Joint compound Drywall
W-14-2 VW-14-3 VW-15-1 VW-15-1 VW-15-2 VW-16-3 VW-16-1 VW-17-18 VW-17-18 VW-18-18 VW-18-18 VW-20 VW-21-1 VW-22-1 VW-22-1 VW-23-1 VW-24-18 VW-24-18 VW-25-18 VW-25-28	1et Floor phone closet Room 22 East-west tunnel Room 22 Hallway outside rooms 102 - 104 Room 102 Room 102 Room 105 Room 105 Room 105 Room 106 No sample collected Room 14 No sample collected Room 6 Room 6 Room 6 Room 6 Room 8 Room 131 Room 131 Room 219, column Room 219, column	< 1% (15% / 5% (5% (6% (10% / < 1% (< 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 1% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% () < 2% ()	Chrysottle Amosite Chrysottle Not Analyzed Not Analyzed Not Analyzed Amosite Chrysottle None Detected Amosite None Detected Amosite None Detected	Stopped at 1st positive Tile Mastic Transite counter tops assumed positive Ceiling tile and glue pods assumed positive Tile Mastic Drywall Joint compound Drywall Joint compound
W-14-2 VW-14-3 VW-16-1 VW-16-1 VW-16-2 VW-16-3 VW-16-1 VW-17-18 VW-17-18 VW-18-1A VW-18-18 VW-20-1 VW-22-1 VW-22-1 VW-22-1 VW-23-1 VW-25-18 VW-25-28 VW-25-28	1et Floor phone closet Room 22 Room 22 East-west tunnel Room 22 Hallway outside rooms 102 - 104 Room 102 Room 102 Room 105 Room 105 Room 105 Room 105 Room 14/15 Room 14/16	<1% (15% / 15% / 5% (15% / 15%	Chrysotile Amosite Chrysotile Not Analyzed Not Analyzed Not Analyzed Amosite Chrysotile None Detected Chrysotile None Detected Amosite None Detected	Stopped at 1st positive Tile Mastic Tile Mastic Transite counter tops assumed positive Ceiling tile and glue pods assumed positive Tile Mastic Drywall Joint compound Drywall Drywall Drywall Drywall
W-14-2 W-14-3 W-16-1 W-16-1 W-16-2 W-16-3 W-16-3 W-16-1 W-17-18 W-17-18 W-18-18 W-18-18 W-19-1 W-20 W-21-1 W-22-1 W-23 W-24-18 W-24-18 W-25-28 W-25-28 W-25-38	1st Floor phone closet Room 22 Room 22 Room 22 East-west tunnel Room 22 Hallway outside rooms 102 - 104 Room 102 Room 105 Room 105 Room 105 Room 106 No sample collected Room 14/16 Room 14/16 Room 14 No sample collected Room 6 Room 8 Room 131 Room 131 Room 219, column Room 219, column Room 234, walls Room 234, walls	< 1% (15% / 5% / 5% (15% / 5% (15% / 5% (15% / 5% / 5% (15% / 5% (15% / 5% / 5% (15% / 5% (15% / 5% / 5% (15% / 5% / 5% (15% / 5% / 5% (15% / 5% / 5% (15% / 5% / 5% (15% / 5% / 5% (15% / 5% / 5% (15% / 5% / 5% (15% / 5% / 5% (15% / 5% / 5% (15% / 5% / 5% (15% / 5% / 5% (15% / 5% / 5% (15% / 5% / 5% (15% / 5% / 5% (15% / 5% / 5%))))))))))))))))))))))))))	Chrysotile Amosite Chrysotile Not Analyzed Not Analyzed Not Analyzed Amosite Chrysotile None Detected Chrysotile None Detected Amosite None Detected	Stopped at 1st positive Tile Mastic Tile Mastic Transite counter tops assumed positive Ceiling tile and glue pods assumed positive Tile Mastic Drywall Joint compound Drywall Joint compound Drywall Joint compound Drywall Joint compound
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W-14-2 W-14-3 W-16-1 W-15-1 W-15-2 W-16-3 W-16-3 W-16-1 W-17-18 W-17-18 W-18-14 W-19-1 W-20 W-21-1 W-22-1 W-22-1 W-23 W-24-14 W-24-18 W-25-18 W-25-28 W-25-28 W-25-38 W-28-3	1st Floor phone closet Room 22 Room 22 Room 22 East-west tunnel Room 22 Hallway outside rooms 102 - 104 Room 102 Room 105 Room 105 Room 105 Room 105 Room 1416 Room 14/16 Room 14/16 Room 14 No sample collected Room 6 Room 6 Room 8 Room 131 Room 131 Room 219, column Room 219, column Room 234, walls Room 234, walls Room 134 Room 234, walls	<1% (15% / 5% (5% (6% (10% / 10% /	Chrysotile Amosite Chrysotile Not Analyzed Not Analyzed Not Analyzed Amosite Chrysotile None Detected Chrysotile None Detected Amosite None Detected	Stopped at 1st positive Tile Mastic Tile Mastic Transite counter tops assumed positive Celling tile and glue pods assumed positive Tile Mastic Drywall Joint compound Drywall Joint compound Drywall Joint compound

Homogeneous Area Vinyl Asbestos Tile HA VAT

Table 3 - Room-By-Room Locations of Asbestos Containing Materials
Asbestos Inspection
Hope College-Vander Werf Hall
May 30, 2007

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9/12/2007

Table 4 - Summary of Asbestos Containing Homogeneous Materials

Asbestos Inspection

Hope College-Vander Werf Hall

May 30, 2007

HA Number	Material Description	Asbestos Containing?	Quantity	Unit
VW-5	2' x 2' Ceiling Tile-White with pinholes and long fissures	Υ	1,139	ea.
VW-7	9" VAT-Beige	Υ	11,104	s.f.
VW-14	1'x1' Glued-On Ceiling Tile-White with pinholes	< 1%	4,892	ş.f.
VW-15	1' x 1' Glued-On Ceiling Tile-White with pinholes	Y	465	l.f.
VW-16	1' x 1' Z-Spline Ceiling Tile-White with fissures and pinholes	Υ	360	s.f.
VW-17	1 'x 1' Z-Spline Ceiling Tile-White with fissures and pinholes	Υ	4,355	s.f.
VW-18	9" VAT-Off white with brown streaks	Υ	672	s.f.
VW-19	2' x 2' Ceiling Tile-White with pinholes and large fissures	Y	672	s.f.
VW-20	2' x 2' Ceiling Tile-White with pinholes and large fissures	Assumed	3,216	ş.f.
VW-23	1' x 1' Glued-On Ceiling Tile-White with pinholes and fissures	Assumed	25	s.f.
VW-24	1' x 1' Glued-On Ceiling Tile-White with pinholes and fissures	< 1%	100	s.f.
VW-29		Assumed	51	ea.

Notes:

ea. = each

HA = Homogeneous Area

I.f. = linear feet

s.f. = square feet

VAT = Vinyl Asbestos Tile

Appendix



Fax

EMSL Analytical, Inc.

212 South Wagner Road, Ann Arbor, MI 48103

Phone: (734) 668-6810 Fax: 7346688532 Email: annarborlab@emsl.com

Attn: Dave Lutkenhoff

(616) 464-3992

Fishbeck, Thompson, Carr & Huber

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Grand Rapids, MI 49546

Phone: (616) 464-3749

Project: Hope College-Vanderuerf Hall G07453

Customer ID:

FTCH62

Customer PO: Received:

06/05/07 10:00 AM

EMSL Order:

080701723

EMSL Proj:

6/6/2007

Analysis Date: Report Date:

6/6/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

				<u>Non-Asb</u>	estos	<u>Ashestos</u>
Sample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Type
VW-1-1A 080701723-0001	Tile	White/Gray Non-Fibrous Heterogeneous			100% Non-fibrous (other)	None Detected
VW-1-1B 080701723-0001A	Mastic	Tan Fibrous Heterogeneous	2%	Cellulose	98% Non-fibrous (other)	None Detected
VW-2-1 080701723-0002		White/Tan Fibrous Heterogeneous	5% 25%	Cellulose Glass	70% Non-fibrous (other)	None Detected
VW-3-1 080701723-0003		Gray Fibrous Heterogeneous		Cellulose Min.W ool	30% Non-fibrous (other)	None Detected
VW-4-1 080701723-0004		Gray Fibrous Heterogeneous		Cellulose Min.W ool	40% Non-fibrous (other)	None Detected
VW-5-1 080701723-0005		Gray Fibrous Heterogeneous			97% Non-fibrous (other)	3% Chrysotile
VW-5-2 080701723-0006		Gray Fibrous Heterogeneous				Stop Positive (Not Analyzed)
VW-5-3 080701723-0007		Gray Fibrous Heterogeneous				Stop Positive (Not Analyzed)

Analyst(s)	Robyn Denter
Orlando J.i vey II (64)	

or other approved signatory

Due to magnification limitations inherent in PLM,a abeatos fibers in dimensions below the resolution capability of PLM may notibe detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbeatos quantities. The above testreport relates only to the items tested and may notibe reproduced in any form without the express written approved of MSI. Analytical, Inc. EMSI,'s fability is limited to the cost of enalysis. EMSI, bears no responsibility for samples collection activities or enalytical method limitations. Interpretation and use of test results are the responsibility of the client. The testre suits contained within this reporter set the requirements of NELAC unless otherwise noted.



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Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

		_	Non-Asbestos					
Sample	Location	Appearance	%	Ribrous	% Non-Fibrous	<u>Asbestos</u> % Type		
VW-8-1A 080701723-0008	Dry Wall	Gray Fibrous Heterogeneous		Cellulose	40% Non-fibrous (other)	None Detected		
VW-6-1B 080701723-0008A	Finish Cost	White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	None Detected		
VW-6-1C 080701723-0008B	Brown Coat	Gray Fibrous Heterogeneous	2%	Cellulose	98% Non-fibrous (other)	None Detected		
VW-6-2A 080701723-0008	Orywall	Gray Fibrous Heterogeneous	65%	Cellulose	35% Non-fibrous (other)	None Detected		
VW-6-2B 080701723-0009A	Finish coat	White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	None Detected		
VW-6-2C 080701723-00098	Brown coat	Gray Fibrous Heterogeneous	3%	3% Cellulose 97% Non-fibrous (other)		None Detected		
VW-6-3A 080701723-0010	Drywall	Gray Fibrous Heterogeneous	70%	Cellulose	30% Non-fibrous (other)	None Detected		
VW-6-3B 080701723-0010A	Finish coat	White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	None Detected		
Analyst(s)					Robym Denteri			

Orlando J.I vey II (64)

or other approved signatory

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Customer ID:

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Customer PO: Received:

06/05/07 10:00 AM

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Analysis Date:

6/6/2007

Report Date:

6/6/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			<u>Asbestos</u>			
iample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Туре
VW-6-3C 080701723-0010B	Brown coat	Gray Fibrous Heterogeneous	2%	Cellulose	98% Non-fibrous (other)	None Detected
VW-8-4A 080701723-0011	Drywali	Gray Fibrous Heterogeneous	50%	Celtulose	50% Non-fibrous (other)	None Detected
VW-6-4B 080701723-0011A	Finish coat	Black Non-Fibrous Heterogeneous			100% Non-fibrous (other)	None Detected
VW-6-4C 080701723-0011B	Brown coat	Gray Fibrous Heterogeneous	4%	Cellulose	96% Non-fibrous (other)	None Detected
VW-6-5A 080701723-0012	Drywall	Gray Fibrous Heterogeneous	60%	Cellulose	40% Non-fibrous (other)	None Detected
VW-6-5B 080701723-0012A	Finish coat	White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	None Detected
VW-6-5C 080701723-00128	Brown coat	Gray Fibrous Heterogeneous	2%	Cellulose	98% Non-fibrous (other)	None Detected
VW-6-8A 080701723-0013	Drywall	Gray Fibrous Heterogeneous	45%	Cellulose	55% Non-fibrous (other)	None Detected
Analyst(s)					Robym Ounteru	

Analyst(s) [\Goungleto] Orlando J.i vey il (64)

or other approved signatory

Due to magnification limitations inherent in PLM,a ebestos fibers in dimensions below the resolution capability of PLM may notibe detected. Samples reported as <1% or none detected may require additional tasting by TEM to confirm asbestos quantities. The above testr aport relates only to the items tested and may notibe reproduced in any form without the express written approved of EMSL Analytical, inc. EMSL's liability is limited to the costo f analysis. EMSL been no responsibility for sample collection activities or analytical method limitations, interpretation and use of test results are the responsibility of he citemt. The testr esults contained within this reportm set the requirements of NELAC unless otherwise noted.S amples received in good condition unless otherwise noted. Analysis performed by EMSL Ann Arbor (NVLAP #101048-4)



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Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			<u>Ashestos</u>			
Sample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Type
VW-8-6B 080701723-0013A	Finish coat	White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	None Detected
VW-6-6C 080701723-00138	Brown coat	Gray Fibrous Heterogeneous	2%	Celluiose	98% Non-fibrous (other)	None Detected
VW-6-7A 080701723-0014	Drywali	Tan/White Non-Fibrous Heterogeneous	45%	Celtulose	55% Non-fibrous (other)	None Detected
VW-6-7B 080701723-0014A	Finish coat	Gray/White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	None Detected
VW-8-7C 080701723-0014B	Brown coat	Gray Fibrous Heterogeneous	3%	Cellulose	97% Non-fibrous (other)	None Detected
VW-7-1A 080701723-0015	Tile	Gray Heterogeneous		_	95% Non-fibrous (other)	5% Chrysotile
VW-7-1B 080701723-0015A	Mastic	Black Fibrous Heterogeneous	2%	Cellulose	98% Non-fibrous (other)	None Detected
VW-8-1 080701723-0016		Black Fibrous Heterogeneous	3%	Cellulose	97% Non-fibrous (other)	None Detected

Analyst(s)	Robyn Denten
0.44-11	

Orlando J.I vey II (64)

or other approved signatory

Due to magnification limitations inherent in PLM,s sheetce fibers in dimensions below the resolution capability of PLM may notice detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm ashestos quartifes. The above test report relates only to the Items tested and may notice reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the costo f energists. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility off he client. The testr esuits contained within this reporting est the requirements of NELAC unless eitherwise noted. Samples received in good condition unless otherwise noted.

Analysis performed by EMSL Ann Arbor (NVLAP #101048-4)



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Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

			<u>Asbestos</u>			
Bample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Type
VW-9-1 080701723-0017		Gray Fibrous Heterogeneous	2%	Cellulose	98% Non-fibrous (other)	None Detected
VW-10-1A 080701723-0018	Tile	Gray Fibrous Heterogeneous	2%	Cellulose	98% Non-librous (other)	None Detected
VW-10-1B 080701723-0018A	Mastic	Tan Non-Fibrous Heterogeneous			100% Non-fibrous (ofher)	None Detected
VW-11-1 080701723-0018		Belge/Gray Fibrous Heterogeneous	2%	Cellulose	98% Non-fibrous (other)	None Detected
VW-12-1 080701723-0020		Tan Fibrous Heterogeneous	2%	Celtulose	98% Non-fibrous (other)	None Detected
VW-13-1 080701723-0021		Tan Fibrous Heterogeneous	3%	Cellulose	97% Non-fibrous (other)	None Detected
VW-14-1 080701723-0022		Brown Fibrous Heterogeneous	8%	Cellulose	92% Non-fibrous (other)	<1% Chrysotile
VW-14-2 080701723-0023		Brown Fibrous Heterogeneous	10%	Cellulose	90% Non-fibrous (other)	<1% Chrysotile
Analyst(s)					Robym Denten	

	•	•	•				
	-						
Orte	and	0.	j.į	vey	H ((64)

or other approved signatory

Due to magnification limitations inherent in PLM,a spectos fibers in dimensions below the resolution capability of PLM may notbe detected. Samples reported as <1% or none detected may require additional basing by TEM to confirm asbeatos quantities. The above test eport relates only to the iterate tested and may notbe reproduced in any form without the express written approvel off MSL Analytical, inc. EMSL's liability is limited to the cost of enalysis. EMSL bears no responsibility for sample collection activities or enalytical method limitations. Interpretation and use of test results are the responsibility off he client. The testr esuits contained within this reportm set the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Analysis performed by EMSL Ann Arbor (NVLAP #101048-4)



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6/6/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

			<u>Asbestos</u>			
Bample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Туре
VW-14-3 080701723-0024		Brown Fibrous Helerogeneous	10%	Cellulose	90% Non-fibrous (other)	<1% Chrysotile
VW-15-1 080701723-0025		Gray Fibrous Heterogeneous			80% Non-fibrous (other)	15% Amosite 5% Chrysotile
VW-15-2 080701723-0026		, - 10 10 10 10 10 10 10 10 10 10 10 10 10				Stop Positive (Not Analyzed)
VW-15-3 080701723-0027						Stop Positive (Not Analyzed)
VW-16-1 080701723-0028		Gray Fibrous Heterogeneous	90%	Min.W ool	5% Non-fibrous (other)	5% Amosite
VW-17-1A 080701723-0028	Tile	Gray Fibrous Hetsrogeneous			96% Non-fibrous (other)	4% Chrysotile
VW-17-1B 080701723-0029A	Mastic	Black Fibrous Heterogeneous	2%	Cellulose	98% Non-fibrous (other)	None Detected
VW-18-1A 080701723-0030	Tile	Gray Fibrous Haterogeneous			94% Non-fibrous (other)	6% Chrysotile
Analyst(s)					Robym Denteru	
Orlanda I I	(0 A)					

nalyst(s)	Vapilin provision
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Orlando J.I vey II (64) or other approved signatory

Due to magnification limitations inherent in PLM, a sheatos fibers in dimensions below the reactution capability of PLM may notbe detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asheatos quantifies. The above test a port relates only to the items tested and may notbe reproduced in any form without the express written approval of E MSL Anatylical, Inc. EMSL's liability is limited to the costo f enablysis. EMSL bears no responsibility for eample collection activities or analytical method limitations. Interpretation and use of fast results are the responsibility of the citient. The testr esuits contained within this reportm set the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Analysis performed by EMSL Ann Arbor (NVLAP #101048-4)



Fax

EMSL Analytical, Inc.

212 South Wagner Road, Ann Arbor, MI 48103

Phone: (734) 668-6810 Fax: 7346688532 Email: annarboriab@emal.com

Attn: Dave Lutkenhoff

Fishbeck, Thompson, Carr & Huber 1515 Arboretum Drive SE

Grand Rapids, MI 49546

(616) 464-3992

Project: Hope College-Vanderuerf Hall G07453

Phone: (616) 464-3749

EMSL Proj:

Analysis Date:

Customer ID:

Customer PO:

EMSL Order:

Received:

6/6/2007

FTCH62

080701723

06/05/07 10:00 AM

Report Date: 6/6/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

			<u>Asbestos</u>			
Sample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Туре
VW-18-1B 080701723-0030A	Mastic	Black Fibrous Heterogeneous	4%	Celluiose	96% Non-fibrous (other)	None Detected
VW-19-1 080701723-0031		Beige/Gray Fibrous Heterogeneous	5% 80%	Cellulose Min.W oal	5% Non-fibrous (other)	10% Amosite
VW-21-1 080701723-0032		White/Gray Fibrous Heterogeneous	5% 30%	Cellulose Min.W od	65% Non-fibrous (other)	None Detected
VW-22-1 080701723-0033		Gray Non-Fibrous Heterogeneous			100% Non-fibraus (other)	None Detected
VW-24-1A 080701723-0034	Tile	Gray Fibrous Heterogeneous	0%	Celluiose	100% Non-fibrous (other)	<1% Chrysotile
VW-24-1B 080701723-0034A	Mastic	Tan Fibrous Heterogeneous	2%	Cellulose	98% Non-fibrous (other)	None Detected
VW-25-1A 080701723-0035	Drywall	Gray Fibrous Heterogeneous	80%	Cellulose	20% Non-fibrous (other)	None Detected
VW-25-1B 080701723-0035A	Jointe empound	White Fibrous Heterogeneous	2%	Cellulose	98% Non-fibrous (other)	None Detected
Analyst(s)					Robyn Denter	

Analyst(s)	Kolyn Denteru
	· · · · · · · · · · · · · · · · · · ·

Orlando J.I vey II (64)

or other approved signatory

Due to magnification limitations inherent in PLM,a sheetos fibers in dimensions below the resolution capability of PLM may notbe detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above testr epont relates only to the items tested and may notbe reproduced in any form without the express written approval off: MSL Analytical, inc. EMSL's liability is limited to the costs of analysis. EMSL bears no responsibility for sample collection activities or analysis are the responsibility of the client. The testr esuits contained within this reportm est the requirements of NELAC untess otherwise noted. Samples received in good condition unless otherwise noted.

Analysis performed by EMSL Ann Arbor (NV/LAP #101048-4)



Fax:

EMSL Analytical, Inc.

212 South Wagner Road, Ann Arbor, MI 48103

Phone: (734) 668-6810 Fax: 7346688532 Email: annarboriab@emsi.com

Attn: Dave Lutkenhoff

Fishbeck, Thompson, Carr & Huber

1515 Arboretum Drive SE Grand Rapids, MI 49546

(616) 464-3992

Phone: (616) 464-3749

Project: Hope College-Vanderuerf Hall G07453

Customer ID:

FTCH62

Customer PO: Received:

06/05/07 10:00 AM

EMSL Order:

080701723

EMSL Proi:

Analysis Date:

6/6/2007

Report Date:

6/6/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

			<u>Asbestos</u>			
ample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Туре
VW-25-2A 080701723-0038	Drywail	Gray Fibrous Heterogeneous		Cellulose	30% Non-fibrous (other)	None Detected
VW-25-2B 080701723-0036A	Jointe ompound	White Fibrous Heterogeneous	incondustv 3%	Cellulose	97% Non-fibrous (other)	None Detected
VW-25-3A 080701723-0037	Orywail	Gray Fibrous Heterogeneous	60%	Celtulose	40% Non-fibrous (other)	None Detected
VW-25-3B 080701723-0037A	Jointe ampound	White Fibrous Heterogeneous	2%	Cellulose	98% Non-fibrous (other)	None Detected
VW-26-1 080701723-0038	Tile	Gray Fibrous Heterogeneous			100% Non-fibrous (other)	None Detected
VW-27-1 080701723-0039		Gray Non-Fibrous Heterogeneous			100% Non-fibrous (other)	None Detected
/W-28-1 080701723-0040		Gray Non-Fibrous Heterogeneous			100% Non-fibrous (other)	Nane Detected
VW-3-2 080701723-0041		Gray Fibrous Heterogeneous	15% 65%	Cellulose Min.W ool	20% Non-fibrous (other)	None Detected
Analyst(s)					Robym Ownten	

Due to magnification limitations inherent in PLM,a sheetos fibers in dimensions below the resolution capability of PLM may notbe detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asheetos quantities. The above test sport relates only to the Items tested and may notbe reproduced in any form without the express written approved off. MSL Analytical, inc. EMSL's liability is limited to the cost of enalysis. EMSL beers no responsibility for sample collection activates or enalytical method limitations. Interpretation and use of test results are the responsibility off the client. The test esuits contained within this reportm est the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Analysis performed by EMSL Ann Arbor (NVLAP #101048-4)

Orlando J.I vey II (64)

or other approved signatory



212 South Wagner Road, Ann Arbor, MI 48103

Phone: (734) 668-6810 Fax: 7346688532 Email: annarboriab@emsl.com

Altn: Dave Lutkenhoff

Fishbeck, Thompson, Carr & Huber

1515 Arboretum Drive SE Grand Rapids, MI 49546

(616) 464-3892

Project: Hope College-Vanderuerf Hall G07453

Phone: (616) 464-3749

EMSL Proj:

Analysis Date:

Customer ID:

Customer PO:

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6/6/2007

FTCH62

080701723

06/05/07 10:00 AM

Report Date:

6/6/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

Non-Asbestos

<u>Asbestos</u>

Sample

Location

Appearance

% Fibrous

% Non-Fibrous

% Туре

Rabyn Denteru Analyst(s) Orlando J.I vey II (64)

or other approved signatory

Ous to magnification limitations inherenti n PLM,a sheatos fibers in dimensions below the resolution capability of PLM may notbe detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asheatos quantifies. The above test eport relates only to the items tested and may notbe reproduced in any form without the express written approval offE MSL Analytical, Inc. EMSL's liability is limited to the cost of enalysis. EMSL bears no responsibility or sample collection activities or enalytics or enalytics. EMSL bears no responsibility of the client. The test esuits contained within this reportm est the requirements of NELAC unless otherwise noted.8 amples received in good condition unless otherwise noted.8

Analysis performed by EMSL Ann Arbor (NVLAP #101048-4)



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Date: Date: Date: 6/1/67

Time Time /63s_



212 South Wagner Road, Ann Arbor, MI 48103

Phone: (734) 668-6810 Fax: 7346688532 Email: annarborlab@emsl.com

Attn: Reuben P. Van Dam Fishbeck, Thompson, Carr & Huber 1515 Arboretum Drive SE Grand Rapids, MI 49546

Customer ID:

FTCH62

Customer PO: Received:

06/13/07 6:28 PM

EMSL Order:

080701824

Fax: (616) 464-3992

Project:

(616) 464-3992 G07453E HOPE COLLEGE Phone: (616) 464-3749

EMSL Proj:

Analysis Date:

6/28/2007

Report Date:

6/28/2007

Asbestos Analysis of Bulk Material via EPA 600/R-93/116. Quantitation using 400 Point Count Procedure.

			<u> 1</u>	lon-Asbestos	<u>Asbestos</u>		
Sample	Location	ation Appearance		ocation Appearance % Fibrous % Non-Fibrous		% Non-Fibrous	% Туре
VW-24-1		Gray		99.25% Non-fibrous (other)	0.75% Chrysotile		
080701824-0001		Fibrous Heterogeneous					
VW-14-1		Brown		99.50% Non-fibrous (other)	0.50% Chrysotile		
080701824-0002		Fibrous Heterogeneous					
VW-14-2		Brown		99.75% Non-fibrous (other)	0.25% Chrysotile		
080701824-0003		Fibrous Heterogeneous					
VW-14-3		Brown		99.50% Non-fibrous (other)	0.50% Chrysotile		
080701824-0004		Fibrous Heterogeneous					

Analyst(s)	Robyn Denter
Orlando J. Ivev II (4)	

or other approved signatory

Disclaimer. Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. EMSL Analytyical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc. bears no esponsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Analysis performed by EMSL Ann Arbor (NVLAP #101048-4)



Chain of Custody

Asbestos Lab Services Phone: (

EMSL Analytical, Inc. 212 S. Wagner Rd. Ann Arbor, MI 48103

Phone: (734) 668-6810 Fax: (734) 668-8532 http://www.emsl.com

Please print all information legibly.

Company:	Fishbeck, Thompson, Carr & Huber, Inc.	BILL To:	Fishbeck, Thompson, Carr & Huber, Inc
(ddress):	1515 Arboretum Dr.	Address1:	1515 Arboretum Dr.
Address2:		Address2	
City, State:	Grand Rapids, Michigan	City, State:	Grand Rapids, Michigan
Zip/Post Code:	49546	Zip/Post Code	49546
Country:	- ang USA ang Paga ana ang Paga katang K	Country:	USA
Contact Name:	Reuben P. Van Dam	Atm:	Deb Stroufe
Phone:	616-464-3833	Phone:	616-464-3708
R io cc	616-464-3992	Fax:	616:464-3994
	TO GUARANTO MANAGEMENT	k. Egali:	dmshroufe@ftch.com
EMSL Rep:	vojespranjemovnomov, v zakljanjem v jene mjerejemite sakrejemice. Programs v jedna sakretnika programski sakretnik sakretnik sakretnik sakretnik sakretnik sakretnik sakretnik s	P.O. Number:	
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TEM AIR. I hours. Shours. Please call should to achedule. There is a pression charge for 3-hour tot, please call 1-900-220-3675 for price prior to sanding things. You will be asked to sign an authorization form for this survice.

^{*12} bases (many arrive by 11:80s m. Mon Pri). Please Refer to Price Onete

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BUMEBUK	TEM BULK	TEM Microvac/Wipe
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Please print all information legibly.
Client Sample # (s)

Chain of Custody

Asbestos Lab Services

Date:

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Phone: (734) 668-6810
Fax: (734) 668-8532
http://www.emal.com
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SAMPLE NUMBER	SAME DESCRIPTION/VOCATION	VOLUMB ((rapplicable)
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QC Documentation

Environmental Services Department

AUG 2 4 2007

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Figures		Supporting		Other	
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Date created:	6/18/	67 8/23/07	Date reviewed:	8/23/07 8/28/07	
Author:	RPU	/	Reviewed by:	MCD / DWC	
Edits required:	yes		Comments:		
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Environmental Services Department Vander Werf Hope college **Project Name Project Number Project Manager** Van Zoren, doc + x15 R107453E **Document Title** Document type QAPP Report/Letter Env. Mgmt. Plan Work Plan HASP **Technical Memo** Permit Other Proposal Check items included for review: Draft text **Appendices** Other Other **Figures** Supporting documentation **Tables** Other **Draft Text Review** Date created: Date reviewed: Author: Reviewed by: Edits required: yes Comments: no Figures Review Date created: Date reviewed: Created by: Reviewed by: Edits required: Comments: yes no **Tables Review** Date created: Date reviewed: Created by: Reviewed by: Edits required: yes Comments: no Appendices Review Date created: Date reviewed: Dave -Compiled by: Reviewed by: I did not have time to Edits required: yes Comments: review this one and no will be out until 9/4/07. Additional Review Comments/Notes No see and Revisions/Edits Comments: Completed on: Completed by: