



Hazardous Materials Inspection

Facility Owner Hope College	Facility I.D. Dewitt Cultural Center 141 East 12th Street Holland, MI 49423
Site Contact Mr. Jerry Gunnink 178 East 11 th Street Holland, MI 49423 Telephone: 616-395-7999	Asbestos Identified in Bldg. ☒ Yes ☐ No Number of Floors 3 Basement ☒ Yes ☐ No Approximate Sq. Ft. 102,114
Project No. Date of Inspection Name of Inspector Inspector Accreditation No.	G080483A29 September 30 through October 2, 2008, and October 7, 2008 Mr. Reuben P. Van Dam A34144
Reference Documents	Table 1 – Description of Homogeneous Materials Table 2 – Bulk Sample Location Log Table 3 – Summary of Asbestos-Containing Homogeneous Materials Table 4 – Room-By-Room of Asbestos-Containing Homogeneous Materials Table 5 – Lead-Based Paint Results Appendix 1 – Floor Plans Showing Sample Sites Appendix 2 – Analytical Results

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Tables

Table 1 - Description of Homogeneous Materials

Hazardous Materials Inspection Report

Inspection Date: September 30, 2008, through October 2, 2008

Hope College, Dewitt Cultural Center

HA Number	Material Description	Material Type	Asbestos Containing?
2	Drywall	SM	N
3	Pipe fitting (gray)	TSI	N
4	2' x 2' D.C.T. (white)	MM	N
5	4" cove base and mastic (black)	MM	N
6	carpet and mastic (beige/brown/gray)	MM	N
7	12" x 12" vinyl tile and mastic (beige/white/tan)	MM	Y
8	Spray-on insulation (gray)	SM	N
9	Duct expansion joint	MM	N
10	2' x 2' D.C.T. (white)	MM	N
11	Carpet and mastic (multi-color)	MM	N
12	Carpet and mastic (brown and tan)	MM	N
13	Carpet and mastic (red/turquoise)	MM	N
14	Stair tread and mastic (gray)	MM	N
15	2' x 2' ceiling tile (white with large fissures)	MM	N
16	9" x 9" vinyl tile and mastic (gray with white streaks)	MM	Y
17	Fire curtain	MM	N
18	6" cove base and mastic (black)	MM	N
19	12" x 12" vinyl tile and mastic (tan)	MM	Y
20	Seamless floor (tan)	SM	N
21	12" x 12" vinyl tile and mastic (turquoise)	MM	N
22	4" cove base and mastic (gray)	MM	N
23	Stair tread and mastic (black)	MM	N
24	Carpet and mastic (gray with dark gray)	MM	N
25	Carpet and mastic (multi-color)	MM	N
26	Spray-on ceiling (white)	MM	Y
27	Wallpaper	MM	N
28	9" x 9" vinyl tile and mastic (dk brown w/ white and tan streaks)	MM	Y
29	12" x 12" vinyl tile and mastic (black with gray)	MM	N
30	Carpet and mastic (burgundy)	MM	N
31	Acoustical plaster (white)	MM	Y
32	Carpet and mastic (gray and purple)	MM	N
33	Carpet and mastic (brown)	MM	N
34	Carpet and mastic (tan/gray/brown)	MM	N
35	12" x 12" vinyl tile and mastic (white with black)	MM	Y
36	Carpet and mastic (multi-color)	MM	N

Notes:

MM

Miscellaneous Material

TSI

Thermal System Insulation

SM

Surfacing Material

HA

Homogeneous Area

Table 1 - Description of Homogeneous Materials
Hazardous Materials Inspection Report
Inspection Date: September 30, 2008, through October 2, 2008
Hope College, Dewitt Cultural Center

HA Number	Material Description	Material Type	Asbestos Containing?
37	Carpet and mastic (purple/blue/gray)	MM	N
38	2' x 2' D.C.T. (white)	MM	N
39	Carpet and mastic (gray with multi-color)	MM	N
40	2' x 2' ceiling tiles.(smooth white with pinholes)	MM	N
41	Tank insulation	TSI	Y

HA-16 and HA-28 not sampled; assumed to be asbestos containing.

Table 2 - Bulk Sample Location Log
 Hazardous Materials Inspection Report
 Inspection Date: September 30, 2008, through October 2, 2008
 Hope College, Dewitt Cultural Center

Sample Number	Sample Location	Asbestos %	Notes
DCC-2-1A	Hall 001, north end, above D.C.T.	None Detected	White texture
DCC-2-1B	Hall 001, north end, above D.C.T.	None Detected	Drywall
DCC-2-2	Hall 001, east wall, south end	None Detected	
DCC-2-3	Room L22, north wall, outlet	None Detected	
DCC-2-4A	Room 142, south wall, above ceiling	None Detected	White texture
DCC-2-4B	Room 142, south wall, above ceiling	None Detected	Drywall
DCC-2-5A	Room 123, north wall, above ceiling	None Detected	Joint compound
DCC-2-5B	Room 123, north wall, above ceiling	None Detected	Drywall
DCC-2-6A	Room 223, at room 229 door, above D.C.T.	None Detected	Joint compound
DCC-2-6B	Room 223, at room 229 door, above D.C.T.	None Detected	Drywall
DCC-2-7A	Room T217, south wall, above D.C.T.	None Detected	White finish coat
DCC-2-7B	Room T217, south wall, above D.C.T.	None Detected	Gray base coat
DCC-3-1	Room 014B, elbow in front of elevator	None Detected	
DCC-3-2	Room T117, elbow to east of HVAC unit	None Detected	
DCC-3-3	Penthouse 2, north airhandler fitting	None Detected	
DCC-4-1	Room 003, south wall center	None Detected	
DCC-5-1A	Room 004, at door	None Detected	Black cove base
DCC-5-1B	Room 004, at door	None Detected	Mastic
DCC-6-1A	Room 003, SW corner	None Detected	Carpet
DCC-6-1B	Room 003, SW corner	None Detected	Mastic
DCC-7-1A	T south stairs, second floor, at door	None Detected	Floor tile
DCC-7-1B	T south stairs, second floor, at door	3% Chrysotile	Mastic
DCC-8-1	Room 003, west of NE column	None Detected	
DCC-8-2	Room 107, East end, south of 117	None Detected	
DCC-8-3	Room 118, east end, at south file cabinet	None Detected	
DCC-8-4	Room 121, NW corner, on beam	None Detected	
DCC-8-5	Room 129, in front of room 130 door	None Detected	
DCC-8-6	Room 206, NW corner by room 210 door	None Detected	
DCC-8-7	Room 206, NE corner, by room 218A door	None Detected	
DCC-9-1	Penthouse 1, south room, SE corner	None Detected	
DCC-10-1	Hall 001, north end, center	None Detected	
DCC-11-1A	Room 022, west wall, NW corner	None Detected	Carpet
DCC-11-1B	Room 022, west wall, NW corner	None Detected	Mastic
DCC-12-1	Room 016, NE corner	None Detected	
DCC-13-1A	Room 028, SW corner at door	None Detected	Carpet

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 Hope College, Dewitt Cultural Center

Sample Number	Sample Location	Asbestos %	Notes
DCC-13-1B	Room 028, SW corner at door	None Detected	Mastic
DCC-14-1A	Room 033, top of stairs	None Detected	Stair tread
DCC-14-1B	Room 033, top of stairs	None Detected	Mastic
DCC-15-1	Basement, south hall, west end	None Detected	
DCC-17-1	Room L13, curtain, east wall	None Detected	
DCC-18-1A	Room L13, at door	None Detected	Black cove base
DCC-18-1B	Room L13, at door	None Detected	Mastic
DCC-19-1A	Room L14, SE corner, behind door	None Detected	Floor tile
DCC-19-1B	Room L14, SE corner, behind door	3% Chrysotile	Mastic
DCC-20-1	Room L21, north wall	None Detected	
DCC-21-1A	Room L19, north wall, at door	None Detected	Floor tile
DCC-21-1B	Room L19, north wall, at door	None Detected	Mastic
DCC-22-1A	Room L19, south wall, at door	None Detected	Gray cove base
DCC-22-1B	Room L19, south wall, at door	None Detected	Mastic
DCC-23-1	T hall, south end	None Detected	
DCC-24-1A	T112, at door, west side	None Detected	Carpet
DCC-24-1B	T112, at door, west side	None Detected	Mastic
DCC-25-1	Room 129, south wall	None Detected	
DCC-26-1	Room 213, ceiling, west end	<1% Chrysotile	
DCC-26-2	First floor, west hall, near 126	<1% Chrysotile	
DCC-26-3	Room 129, east end, north of ATM	<1% Chrysotile	
DCC-26-4	Second floor, west hall, center, room 237 door	<1% Chrysotile	
DCC-26-5	Second floor, south hall, room 247 door	<1% Chrysotile	
DCC-26-6	Room 251, at door, above D.C.T.	<1% Chrysotile	
DCC-26-7	200, east end by stairwell door	<1% Chrysotile	
DCC-27-1	T116, stage divider, east side	None Detected	
DCC-29-1A	T115, next to seat 6, row A	None Detected	Floor tile
DCC-29-1B	T115, next to seat 6, row A	None Detected	Mastic
DCC-30-1A	T115, behind seat 14, row F	None Detected	Carpet
DCC-30-1B	T115, behind seat 14, row F	None Detected	Mastic
DCC-31-1	T115, ceiling, NW corner of T113	10% Chrysotile	
DCC-31-2	T115, west end, light platform	None Detected	
DCC-31-3	T115, east end, light platform	None Detected	
DCC-32-1A	T113, west wall	None Detected	Carpet
DCC-32-1B	T113, west wall	None Detected	Mastic

Table 2 - Bulk Sample Location Log
 Hazardous Materials Inspection Report
 Inspection Date: September 30, 2008, through October 2, 2008
 Hope College, Dewitt Cultural Center

Sample Number	Sample Location	Asbestos %	Notes
DCC-33-1A	Room 103, NE corner	None Detected	Carpet
DCC-33-1B	Room 103, NE corner	None Detected	Mastic
DCC-34-1	Room 227, NW corner	None Detected	
DCC-35-1A	Room 227, NW corner	2% Chrysotile	Floor tile
DCC-35-1B	Room 227, NW corner	None Detected	Mastic
DCC-36-1A	Room 253, NW corner	None Detected	Carpet
DCC-36-1B	Room 253, NW corner	None Detected	Mastic
DCC-37-1A	College Advancement Area, SW corner	None Detected	Carpet
DCC-37-1B	College Advancement Area, SW corner	None Detected	Mastic
DCC-38-1	College Advancement Area, south end of hall	None Detected	
DCC-39-1A	023, ramp, south wall	None Detected	Carpet
DCC-39-1B	023, ramp, south wall	None Detected	Mastic
DCC-40-1	015, south end by door	None Detected	
DCC-41-1	Room L12, south side of big tank	10% Chrysotile	
		10% Amosite	
DCC-41-2	Room L12, north side of big tank	10% Chrysotile	
		10% Amosite	
DCC-41-3	Room L12, small tank	10% Chrysotile	

Table 3 - Summary of Asbestos-Containing Homogeneous Materials

Hazardous Materials Inspection Report
 Inspection Date: September 30, 2008, through October 2, 2008
 Hope College, Dewitt Cultural Center

HA Number	Material Description	Quantity	Unit
7	12" x 12" vinyl tile and mastic (beige/white/tan)	3,904	s.f.
16	9" x 9" vinyl tile and mastic (gray with white streaks)	4,292	s.f.
19	12" x 12" vinyl tile and mastic (tan)	600	s.f.
26	Spray-on ceiling (white)	7,644	s.f.
28	9" x 9" vinyl tile and mastic (dk brown w/ white and tan streaks)	656	s.f.
31	Acoustical plaster (white)	400	s.f.
35	12" x 12" vinyl tile and mastic (white with black)	2,172	s.f.
41	Tank insulation	200	s.f.

HA Homogeneous Area
 s.f. square feet

HA-16 and HA-28 not sampled; assumed to be asbestos containing.

Table 4 - Room-By-Room of Asbestos-Containing Homogeneous Materials
Hazardous Materials Inspection Report
Inspection Date: September 30, 2008, through October 2, 2008
Hope College, Dewitt Cultural Center

Location I.D. (Room Number)	HA Number									
	7	16	19	26	28	31	35	41		
	(s.f.)	(s.f.)	(s.f.)	(s.f.)	(s.f.)	(s.f.)	(s.f.)	(s.f.)		
007	140									
011A	1,240									
012	64									
Elevator	36									
Basement South & East Hall		1,098								
L15		60								
L23		96								
L22		768								
L14			600							
L21		152								
L19 Hall & Stairs		100								
Green Room		262								
T Hall		444								
125A		364								
125		316								
141				1,792						
142				96						
T116		24			40					
T115						300				
T North Stairs	692				308					
261						100				
T213				240						
T South Stairs	692				308					
1st Floor West Hall				592						
121	1,040									
West Main Stairs				680						
130				384						
129				700						
223-231							2,172			
2nd Floor West Hall				400						
NW Stairs		496								
233		112								
200				1,160						
College Advancement				1,200						
T226				200						
T225				200						
L12								200		
Totals	3,904	4,292	600	7,644	656	400	2,172	200		

Notes:
HA Homogeneous Area
s.f. square feet

HA-16 and HA-28 not sampled; assumed to be asbestos containing.

Table 5 - Summary of Paint Chip Sample Results

Hazardous Materials Inspection Report

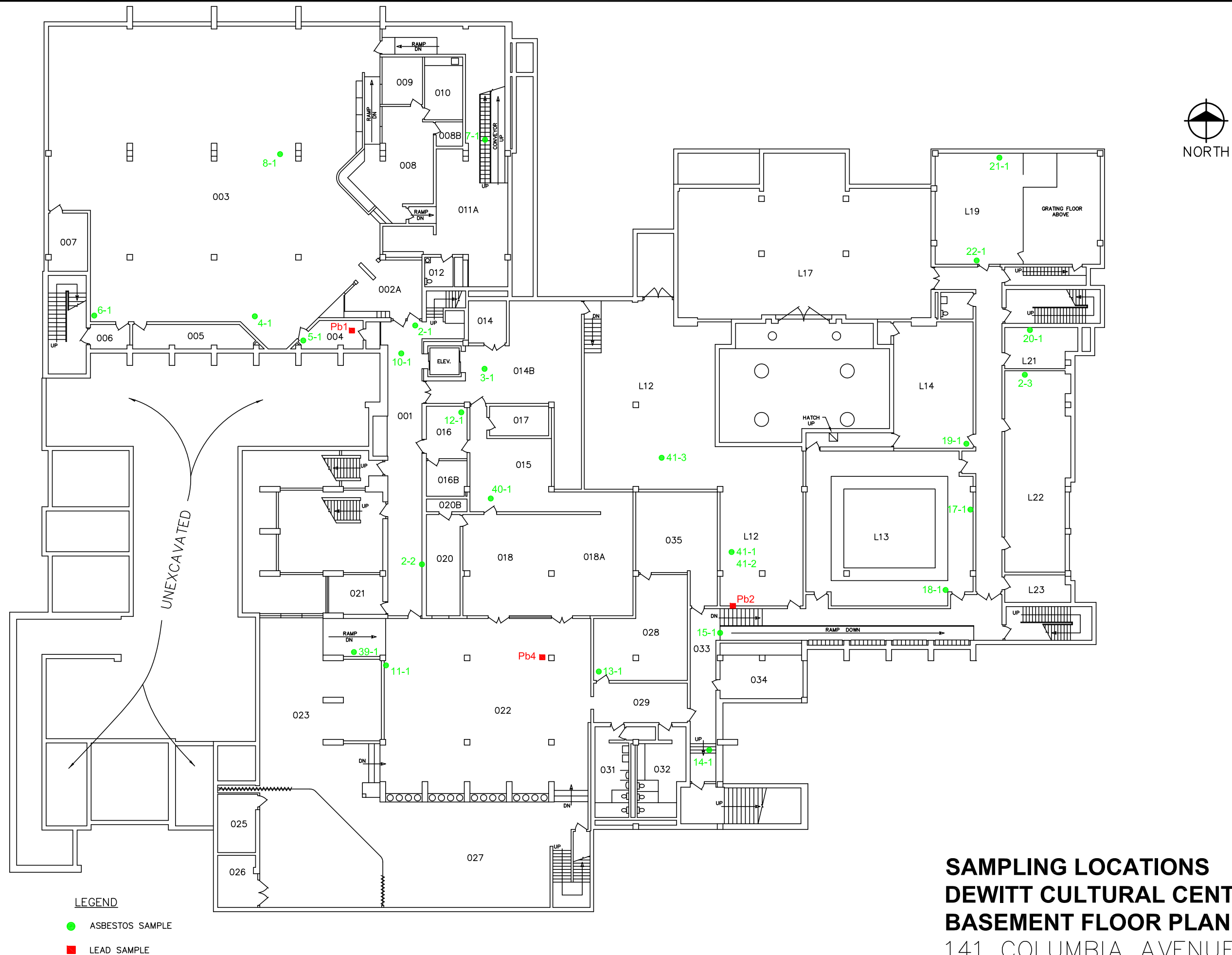
Inspection Date: September 30, 2008, through October 2, 2008

Hope College, Dewitt Cultural Center

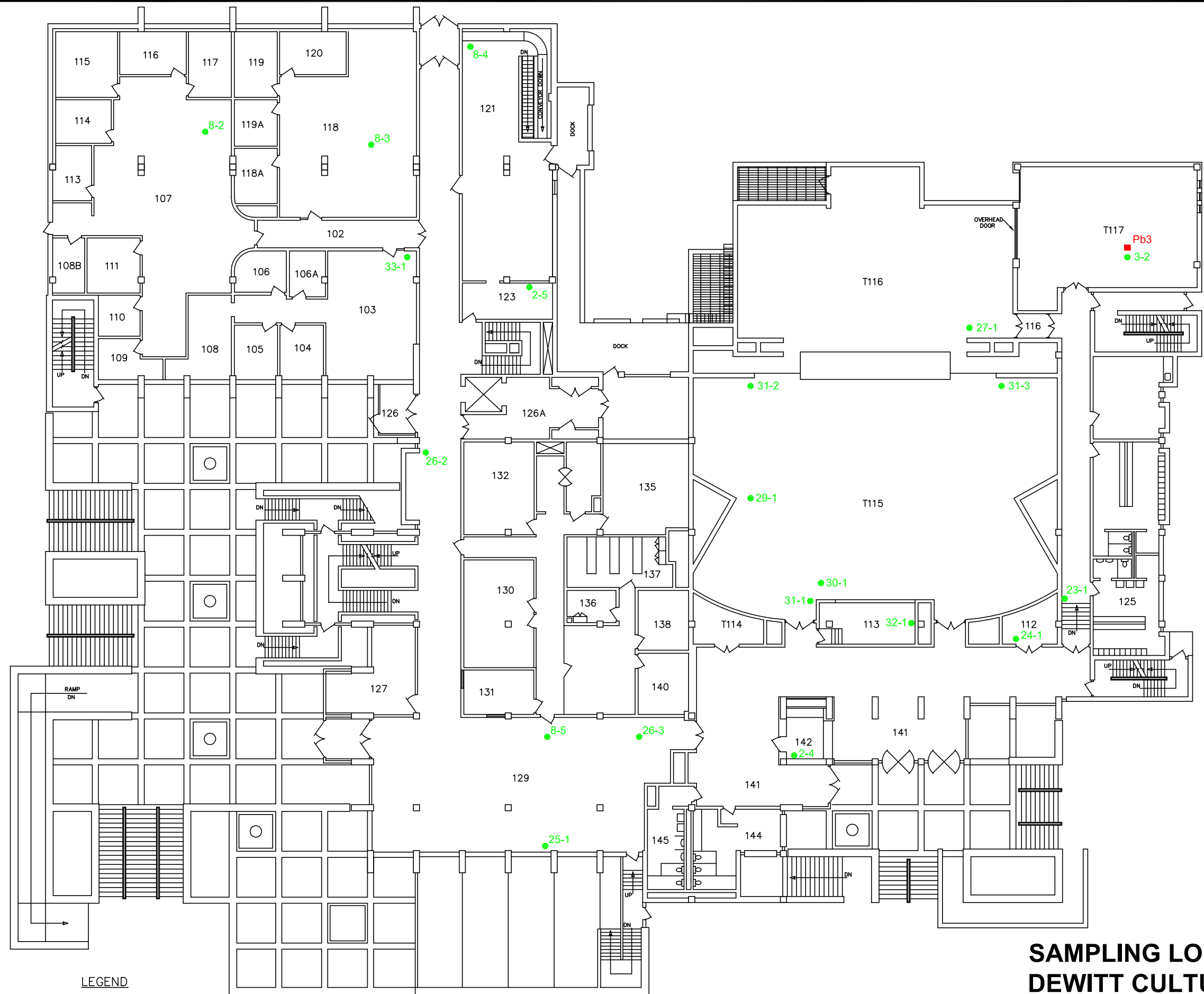
Sample ID	Sample Site	Description	Lead Concentration (% by wt)
DCC-PB-1	Room 004, north wall	Beige, interior	0.02
DCC-PB-2	Basement south hall, handrail	Black, interior	0.11
DCC-PB-3	Room T117, east center column	White, interior	<0.01
DCC-PB-4	022, NE column	Blue, interior	<0.01

Appendix 1

PLOT INFO: U:\PROJECTS\080483A29\DEWITT.DWG DATE: 12/18/2008 TIME: 11:41:15 AM USER: ACS

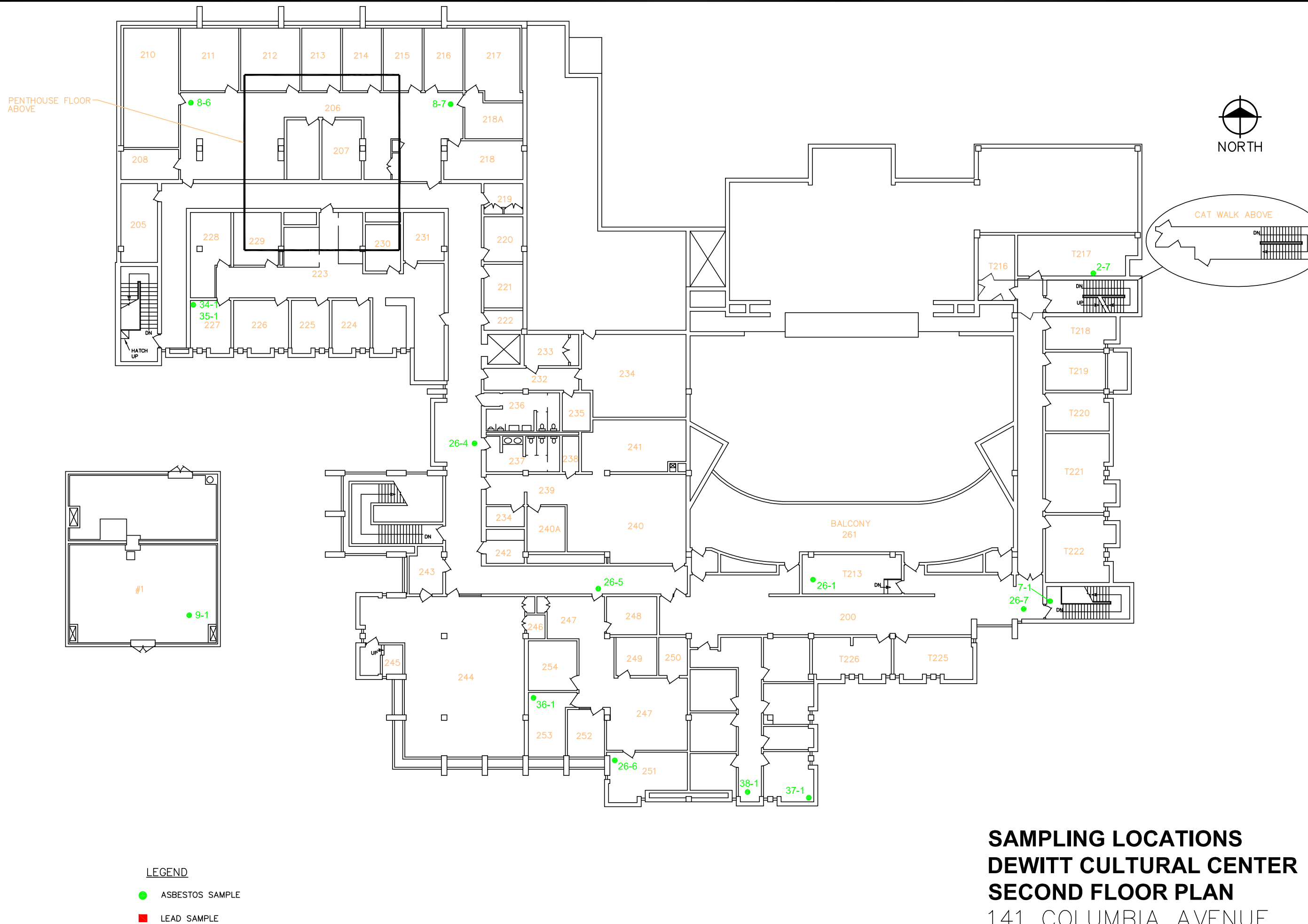


PLOT INFO: U:\PROJECTS\080483A29 DEWITT.DWG DATE: 11/14/2008 TIME: 1:36:49 PM USER: ACS



**SAMPLING LOCATIONS
DEWITT CULTURAL CENTER
FIRST FLOOR PLAN**
141 COLUMBIA AVENUE

PLOT INFO: U:\PROJECTS\080483A29 DEWITT.DWG DATE: 11/14/2008 TIME: 1:31:24 PM USER: ACS



Appendix 2



EMSL Analytical

2001 East 52nd St., Indianapolis, IN 46205

Phone: (317) 803-2997 Fax: (317) 803-3047 Email: indianapolislaboratory@emsl.com

Attn: **Dave Lutkenhoff**
Fishbeck, Thompson, Carr & Huber
1515 Arboretum Drive SE
Grand Rapids, MI 49546

Customer ID: FTCH62
Customer PO: G080483A29
Received: 10/10/08 9:45 AM
EMSL Order: 160815832

Fax: (616) 464-3992 Phone: (616) 575-3824
Project: **G080483 Hope-A29**

EMSL Proj:
Analysis Date: 10/24/2008
Report Date: 10/24/2008

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

Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
DCC-2-1/A Texture 160815832-0001		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-2-1/B Drywall 160815832-0001A		White/Brown Fibrous Heterogeneous	25% Cellulose 5% Glass	65% Gypsum 5% Non-fibrous (other)	None Detected
DCC-2-2 160815832-0002		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-2-3 160815832-0003		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-2-4/A Texture 160815832-0004		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-2-4B Drywall 160815832-0004A		White/Brown Fibrous Heterogeneous	20% Cellulose 5% Glass	70% Gypsum 5% Non-fibrous (other)	None Detected
DCC-2-5/A Joint Compound 160815832-0005		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-2-5B Drywall 160815832-0005A		White/Brown Fibrous Heterogeneous	35% Cellulose 5% Glass	55% Gypsum 5% Non-fibrous (other)	None Detected

Analyst(s)

Craig Nixon (86)

Richard Harding, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

ACCREDITATION: NVLAP Lab Code 200188-0



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Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
DCC-2-6/A Joint Compound 160815832-0006		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-2-6B Drywall 160815832-0006A		White/Brown Fibrous Heterogeneous	25% Cellulose 5% Glass	65% Gypsum 5% Non-fibrous (other)	None Detected
DCC-2-7/A Finish Coat 160815832-0007		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-2-7/B Base Coat 160815832-0007A		Gray Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
DCC-3-1 160815832-0008		Gray Fibrous Homogeneous	40% Min. Wool	60% Non-fibrous (other)	None Detected
DCC-3-2 160815832-0009		Gray Fibrous Homogeneous	20% Cellulose 30% Min. Wool	50% Non-fibrous (other)	None Detected
DCC-3-3 160815832-0010		Gray Fibrous Heterogeneous	20% Cellulose 30% Min. Wool	50% Non-fibrous (other)	None Detected

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

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
DCC-4-1 160815832-0011		White/Silver Fibrous Heterogeneous	5% Cellulose 90% Min. Wool	5% Non-fibrous (other)	None Detected
DCC-5-1/A Cove Base 160815832-0012		Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-5-1/B Mastic 160815832-0012A		Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-6-1/A Carpet 160815832-0013		Gray Fibrous Homogeneous	99% Synthetic	1% Non-fibrous (other)	None Detected
DCC-6-1/B Mastic 160815832-0013A		Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-7-1/A Floor Tile 160815832-0014		Beige Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-7-1/B Mastic 160815832-0014A		Black Non-Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile

Analyst(s)

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Customer ID: FTCH62
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Received: 10/10/08 9:45 AM
EMSL Order: 160815832

EMSL Proj:
Analysis Date: 10/24/2008
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Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Non-Asbestos			Asbestos
			%	Fibrous	% Non-Fibrous	% Type
DCC-8-1 160815832-0015		Tan Fibrous Homogeneous	20% 10%	Cellulose Glass	20% Mica 50% Non-fibrous (other)	None Detected
DCC-8-2 160815832-0016		Tan Fibrous Homogeneous	20% 10%	Cellulose Glass	20% Mica 50% Non-fibrous (other)	None Detected
DCC-8-3 160815832-0017		Tan Fibrous Homogeneous	20% 10%	Cellulose Glass	20% Mica 50% Non-fibrous (other)	None Detected
DCC-8-4 160815832-0018		Tan Fibrous Homogeneous	20% 10%	Cellulose Glass	20% Mica 50% Non-fibrous (other)	None Detected
DCC-8-5 160815832-0019		Tan Fibrous Homogeneous	20% 10%	Cellulose Glass	20% Mica 50% Non-fibrous (other)	None Detected
DCC-8-6 160815832-0020		Tan Fibrous Homogeneous	20% 10%	Cellulose Glass	20% Mica 50% Non-fibrous (other)	None Detected
DCC-8-7 160815832-0021		Tan Fibrous Homogeneous	20% 10%	Cellulose Glass	20% Mica 50% Non-fibrous (other)	None Detected
DCC-9-1 160815832-0022		Black Fibrous Homogeneous	90%	Cellulose	10% Non-fibrous (other)	None Detected

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ACCREDITATION: NVLAP Lab Code 200188-0



EMSL Analytical

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Attn: **Dave Lutkenhoff**
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Grand Rapids, MI 49546

Customer ID: FTCH62
Customer PO: G080483A29
Received: 10/10/08 9:45 AM
EMSL Order: 160815832

Fax: (616) 464-3992 Phone: (616) 575-3824
Project: **G080483 Hope-A29**

EMSL Proj:
Analysis Date: 10/24/2008
Report Date: 10/24/2008

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

Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			%	Fibrous	% Type
DCC-10-1 160815832-0023		Brown/White/Silver Fibrous Heterogeneous	5% 90%	Cellulose Min. Wool	5% Non-fibrous (other) None Detected
DCC-11-1/A Carpet 160815832-0024		Pink Fibrous Homogeneous	90%	Synthetic	10% Non-fibrous (other) None Detected
DCC-11-1/B Mastic 160815832-0024A		Yellow/Clear Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected
DCC-12-1 160815832-0025		Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected
DCC-13-1/A Carpet 160815832-0026		Red/Blue Fibrous Heterogeneous	90%	Synthetic	10% Non-fibrous (other) None Detected
DCC-13-1/B Mastic 160815832-0026A		Cream Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected
DCC-14-1/A Stair Tread 160815832-0027		Gray Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected
DCC-14-1/B Mastic 160815832-0027A		White Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected

Analyst(s)

Craig Nixon (86)

Richard Harding, Laboratory Manager
or other approved signatory

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Sample	Location	Appearance	<u>Non-Asbestos</u>			<u>Asbestos</u>
			%	Fibrous	Non-Fibrous	% Type
DCC-15-1 160815832-0028		White/Gray Fibrous Homogeneous	40% 55%	Cellulose Min. Wool	5% Non-fibrous (other)	None Detected
DCC-17-1 160815832-0029		Black Fibrous Homogeneous	99%	Cellulose	1% Non-fibrous (other)	None Detected
DCC-18-1/A Cove Base 160815832-0030		Black Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
DCC-18-1/B Mastic 160815832-0030A		Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
DCC-19-1/A Floor Tile 160815832-0031		Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
DCC-19-1/B Mastic 160815832-0031A		Black Non-Fibrous Homogeneous			97% Non-fibrous (other)	3% Chrysotile
DCC-20-1 160815832-0032		Brown Fibrous Heterogeneous	30% 10%	Cellulose Glass	60% Non-fibrous (other)	None Detected

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

Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
DCC-21-1/A Floor Tile 160815832-0033		Blue Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-21-1/B Mastic 160815832-0033A		Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-22-1/A Cove Base 160815832-0034		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-22-1A/B Mastic 160815832-0034A		Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-23-1 160815832-0035		Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-24-1/A Carpet 160815832-0036		Gray Fibrous Heterogeneous	90% Synthetic	10% Non-fibrous (other)	None Detected
DCC-24-1/B Mastic 160815832-0036A		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
DCC-25-1 160815832-0037		Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-26-1 160815832-0038		White Non-Fibrous Homogeneous		15% Mica 85% Non-fibrous (other)	<1% Chrysotile
DCC-26-2 160815832-0039		White Non-Fibrous Homogeneous		15% Mica 85% Non-fibrous (other)	<1% Chrysotile
DCC-26-3 160815832-0040		White Non-Fibrous Homogeneous		15% Mica 85% Non-fibrous (other)	<1% Chrysotile
DCC-26-4 160815832-0041		White Non-Fibrous Homogeneous		15% Mica 85% Non-fibrous (other)	<1% Chrysotile
DCC-26-5 160815832-0042		White Non-Fibrous Homogeneous		15% Mica 85% Non-fibrous (other)	<1% Chrysotile
DCC-26-6 160815832-0043		White Non-Fibrous Homogeneous		15% Mica 85% Non-fibrous (other)	<1% Chrysotile
DCC-26-7 160815832-0044		White Non-Fibrous Homogeneous		15% Mica 85% Non-fibrous (other)	<1% Chrysotile

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EMSL Proj:
Analysis Date: 10/24/2008
Report Date: 10/24/2008

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

Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			%	Fibrous	% Type
DCC-27-1 160815832-0045		White Fibrous Heterogeneous	25%	Cellulose	75% Non-fibrous (other) None Detected
DCC-29-1/A Floor Tile 160815832-0046		Black Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected
DCC-29-1/B Mastic 160815832-0046A		Black Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected
DCC-30-1/A Carpet 160815832-0047		Black Fibrous Heterogeneous	90%	Synthetic	10% Non-fibrous (other) None Detected
DCC-30-1/B Mastic 160815832-0047A		Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected
DCC-31-1 160815832-0048		White Non-Fibrous Homogeneous			30% Non-fibrous (other) 60% Perlite 10% Chrysotile
DCC-31-2 160815832-0049		White Non-Fibrous Homogeneous			70% Non-fibrous (other) 30% Quartz None Detected
DCC-31-3 160815832-0050		White Non-Fibrous Homogeneous			70% Non-fibrous (other) 30% Quartz None Detected

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Project: **G080483 Hope-A29**

EMSL Proj:
Analysis Date: 10/24/2008
Report Date: 10/24/2008

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

Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>	
			%	Fibrous	% Non-Fibrous	% Type
DCC-32-1/A Carpet 160815832-0051		Purple Fibrous Heterogeneous	90%	Synthetic	10% Non-fibrous (other)	None Detected
DCC-32-1/B Mastic 160815832-0051A		Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
DCC-33-1/A Carpet 160815832-0052		Brown/Blue Fibrous Heterogeneous	70%	Synthetic	30% Non-fibrous (other)	None Detected
DCC-33-1/B Mastic 160815832-0052A		Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
DCC-34-1 160815832-0053		Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
DCC-35-1/A Floor Tile 160815832-0054		White Non-Fibrous Homogeneous			98% Non-fibrous (other)	2% Chrysotile
DCC-35-1/B Mastic 160815832-0054A		Black Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
DCC-36-1/A Carpet 160815832-0055		Red/White/Blue Fibrous Heterogeneous	90%	Synthetic	10% Non-fibrous (other)	None Detected

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Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
DCC-36-1/B Mastic 160815832-0055A		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-37-1/A Carpet 160815832-0056		Red/Gray Fibrous Heterogeneous	90% Synthetic	10% Non-fibrous (other)	None Detected
DCC-37-1/B Mastic 160815832-0056A		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-38-1 160815832-0057		White/Gray Fibrous Homogeneous	50% Cellulose 30% Min. Wool	5% Non-fibrous (other) 15% Perlite	None Detected
DCC-39-1/A Carpet 160815832-0058		Gray Fibrous Heterogeneous	90% Synthetic	10% Non-fibrous (other)	None Detected
DCC-39-1/B Mastic 160815832-0058A		Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DCC-40-1 160815832-0059		White/Beige Fibrous Homogeneous	40% Cellulose 40% Min. Wool	5% Non-fibrous (other) 15% Perlite	None Detected
DCC-41-1 160815832-0060		Gray Fibrous Heterogeneous	20% Cellulose	60% Non-fibrous (other)	10% Amosite 10% Chrysotile

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Report Date: 10/24/2008

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

Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>	
			%	Fibrous	% Non-Fibrous	% Type
DCC-41-2		Gray	20%	Cellulose	60% Non-fibrous (other)	10% Amosite
160815832-0061		Fibrous				10% Chrysotile
		Heterogeneous				
DCC-41-3		Gray	60%	Cellulose	30% Non-fibrous (other)	10% Chrysotile
160815832-0062		Fibrous				
		Heterogeneous				

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EMSL Order: 160815076

Fax: (616) 464-3992 Phone: (616) 575-3824
Project: **HOPE COLLEGE/G080483A29 DEWITT CULTURAL CTR**
(DCC)

EMSL Proj:
Report Date: 10/16/2008

Lead in Paint Chips by Flame AAS (SW 846 3050B and 7420*)

Lab ID:	Analyzed	RDL	Lead Concentration	Notes
0001	10/16/2008	0.01 % wt	0.02 % wt	
Client Sample DCC-PB-1				Collected: 10/8/2008
0002	10/16/2008	0.05 % wt	0.11 % wt	
Client Sample DCC-PB-2				Collected: 10/8/2008
0003	10/16/2008	0.01 % wt	<0.01 % wt	
Client Sample DCC-PB-3				Collected: 10/8/2008
0004	10/16/2008	0.01 % wt	<0.01 % wt	
Client Sample DCC-PB-4				Collected: 10/8/2008

Doug Wiegand, Laboratory Manager
or other approved signatory

Reporting limit is 0.01 % wt. The QC data associated with these sample results included in this report meet the method quality control requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities.

* slight modifications to methods applied Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted

ACCREDITATIONS: AIHA ELLAP 157245

Date Printed: 10/16/2008 5:42:51 PM

PB w/RDL