



CAROLINA ENVIRONMENTAL, INC.

CHAIN OF CUSTODY RECORD ASBESTOS/LEAD ANALYSIS

107 New Edition Court, Cary, NC 27511
 Tel: 866-481-1412; Fax: 919-481-1442

57-11-0
 A629 039. A629 124

Client: <i>UTR Consulting Engineers, LLC</i>		Project Manager: <i>Matt J. Warner</i>	
Address: <i>204 E. Lyndale Helena, MT 59601</i>		Phone: <i>(406) 441-4000</i>	
Email: <i>Mwarner@utrconsulting.com</i>		Fax: <i>(406) 441-4001</i>	
PO #:		ASBESTOS	
PROJECT DESCRIPTION	PROJECT CODE	LEAD PAINT	
<i>HHA Admin. - Daycare</i>	<i>07912-1.1</i>	PLM Bulk	TURN-AROUND TIME
		PLM Point-Count	<i>5 DAYS</i>
		PLM Gravimetric	<i>3 DAYS</i>
		PCM Air	<i>48 HOURS</i>
		TEM Bulk	<i>24 HOURS</i>
		TEM Air	<i>4 HOURS</i>
		Lead Paint	
		Lead Wipe	
		Lead Soil	
		Lead Air	
		Other Analysis	
REMARKS:		CLIENT ID# <i>22938</i>	
* Analyze All Layers. * Positive STD * Separate Reports for Admin Bids and Daycare		Samples will be disposed of 30 days after analysis, unless otherwise requested.	
Relinquished By: <i>[Signature]</i>	Date / Time: <i>2007 06 28 15:00</i>	Received By: <i>Fed-ex Carrier</i>	Date / Time: <i>7/09/07 4:30PM</i>
Relinquished By: <i>[Signature]</i>	Date / Time: <i>2007 06 28 15:00</i>	Received By: <i>Kevin Nuss</i>	Date / Time: <i>3:40PM</i>



CAROLINA ENVIRONMENTAL, INC.

ASBESTOS BULK INSPECTION

Client: HHA Date: 2007 06 28

Project: Asbestos - Administration Bldg. Collector: David B. Gillett

Address: _____ Project #: 07912-1.1

City, State: Hevona, MT

FIELD ID	SAMPLE LOCATION	SAMPLE DESCRIPTION	COND	AMOUNT	NOTES
M1.1	A Foyer	Sheetlock, Joint, Tape			
	B Break Room				
	C Hall #1				
	D Printer Room				
	E File Room				
M2.1	A Utility Room	Wall/Ceiling Plaster			
	B Basement				
	C Foyer Closet				
M3.2	A Kitchen office	Victorian style wallpaper			
	B Printer Room				
	C Printer Room				
M3.3	A Conference Room	grn/pnk Fibers Wallpaper			
	B Conference Room				
	C Conference Room				
M3.4	A office next to boardroom	Shell Pa Tern Wallpaper			
	B office next to boardroom				

FT= Floor Tile CT= Ceiling Tile WLBRD = Wallboard JC= Joint Compound CLSPRY = Ceiling Spray On

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CAROLINA ENVIRONMENTAL, INC.

ASBESTOS BULK INSPECTION

Client: HHA Date: 2009 06 28
 Project: Asbestos - Administration Bldg. Collector: David B. Gillett
 Address: _____ Project #: 27912-1.1
 City, State: Herena, MT

FIELD ID	SAMPLE LOCATION	SAMPLE DESCRIPTION	COND.	AMOUNT	NOTES
55 ↓ C	Office Next to boardroom	↓			
M6.1 A	Mens Bathroom	Adhesive of 4' w/ht. Minisoff			
B	Mens Bathroom	↓			
57 ↓ C	Womens Bathroom	↓			
S1.1 A	Basement office	Popcorn Ceiling Texture			
G	Basement office	↓			
60 ↓ C	Basement office	↓			
S2.1 A	Front office	12"x12" w/ht. ceiling Tiles			
B	Front office	↓			
63 ↓ C	Front office	↓			
S2.2 A	Andrew's office	12"x12" w/ht. ceiling Tiles			
B	File Room	↓			
66 ↓ C	File Room	↓			
F1.1 A	Foyer	Multicolor Carpet Speckled w/Blue Base			
B	File Room	↓			
68 ↓ C	Steph's office	↓			
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FT= Floor Tile CT= Ceiling Tile WLBRD = Wallboard JC= Joint Compound CLSFRY = Ceiling Spray On



CAROLINA ENVIRONMENTAL, INC.

ASBESTOS BULK INSPECTION

Client: HHA	Date: 2007 06 28
Project: Asbestos - Administration Bldg	Collector: David B. Gillett
Address:	Project #: 07912-1.1
City, State: Helena, MT	

FIELD ID	SAMPLE LOCATION	SAMPLE DESCRIPTION	COND	AMOUNT	NOTES
71 F1.2A	Ferisha office	Multicolor carpet w/ Brown Base			
74 B	Leslie office				
73 C	Jenny office				
74 F1.3A	Karen's office	Brown carpet w/ Blue streaks			
75 B	Printer Room				
76 C	Printer Room				
77 F1.4A	Board Room	Multicolor Carpet w/ Blue Border			
76 B	Board Room				
79 C	Board Room				
80 F1.5A	Directors office	Burgandy Carpet			
81 B	Analreas office				
82 C	Analreas closet				
83 F2.1A	Utility Room	Yellow leaf pattern Linoleum			
84 B	Utility Room				
85 C	Utility Room				
86 F2.2A	Stairwell	Yellow w/ Brown Linoleum			

FT = Floor Tile CT = Ceiling Tile WLB RD = Wallboard JC = Joint Compound CLSFRY = Ceiling Spray On



CAROLINA ENVIRONMENTAL, INC.

ASBESTOS BULK INSPECTION

Client: HHA Date: 2007 06 28

Project: Asbestos - Administration Bldg. Collector: David B. Gillett

Address: _____ Project #: 07912-1.1

City, State: Helena, MT

FIELD ID	SAMPLE LOCATION	SAMPLE DESCRIPTION	COND	AMOUNT	NOTES
87 B	Stair Well				
88 C	Stair Well				
89 F3.14A	Foyer Closet	12"x12" patch VFT			
90 B	Break Room				
91 C	Conference Room				
92 F3.15 A	Hall	12"x12" green VFT			
93 B	Hall				
94 C	Hall				
95 F3.16 A	Stairwell	Large cut pink VFT ?			
96 B	Stairwell				
97 C	Stairwell				
98 E1.2 A	Conference Rm Stairwell	4" white Covebase			
99 B	Conference Rm Stairwell				
100 C	Conference Rm Stairwell				
01 E1.3 A	Conference Stairwell	2" Rust color Covebase			
02 B	Conference Mens Bath				

FT = Floor Tile CT = Ceiling Tile WLBRD = Wallboard JC = Joint Compound CLSFRY = Ceiling Spray On

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CAROLINA ENVIRONMENTAL, INC.

ASBESTOS BULK INSPECTION

Client: HHH Date: 2007 06 28

Project: Asbestos - Administration Bldg. Collector: David B. Gillett

Address: _____ Project #: 07912-1.1

City, State: Herndon, MT

FIELD ID	SAMPLE LOCATION	SAMPLE DESCRIPTION	COND	AMOUNT	NOTES
03 C	Conference Kitchen	↓			
04 E14 A	Conference Room	4" Suede Covebase			
05 B	Office next to Board Rm.	↓			
06 C	Office next to Board Rm.	↓			
07 E15 A	Basement Conference Kitchen	4" Buck Covebase			
08 B	Conference Kitchen	↓			
09 C	Conference Kitchen	↓			
10 E16 A	Front office	4" Cream Covebase			
11 B	Front office	↓			
12 C	Front office	↓			
13 TAP A	Basement Ducting	Tape cloth			
14 B	Basement Ducting	↓			
15 C	Basement Ducting	↓			
16 A	Basement line Fittings	Patty			
17 B	Basement line Fittings	↓			
18 C	Basement line Fittings	↓			

FT= Floor Tile CT= Ceiling Tile WLBRD = Wallboard JC= Joint Compound CLSPRY = Ceiling Spray On

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CAROLINA ENVIRONMENTAL, INC.

ASBESTOS BULK INSPECTION

Client: **HHA**
 Project: **Asbestos - Day Care - Unit #410**
 Address:
 City, State: **Helena, MT**
 Date: **2007 06 28**
 Collector: **Daniel B. Gillett**
 Project #: **07912-1.1**

FIELD ID	SAMPLE LOCATION	SAMPLE DESCRIPTION	COND	AMOUNT	NOTES
M.1.1 A	Main Playroom	Sheetrock, Joint, Tape			
B	Entry Bathroom				
C	Class Room				
D	Upstairs office				
E	Storage Room				
S.1.1 A	Office	Popcorn Ceiling Texture			
B	Play Room				
C	Storage Room				
F2.3 A	Storage w/ Sink	Dark Brown Linoleum w/ squares			
B	Storage w/ Sink				
C	Storage w/ Sink				
F2.4 A	Storage w/ Sink	Light Brown Linoleum w/ squares			
B	Storage w/ Sink				
C	Storage w/ Sink				
FT	Storage w/ Sink	12'x12" peach VET			

FT = Floor Tile CT = Ceiling Tile WLBRD = Wallboard JC = Joint Compound CLSPRY = Ceiling Spray On

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**Carolina Environmental, Inc. – Laboratory Report
(Daycare Facility)**

Appendix H

LABORATORY REPORT ASBESTOS BULK ANALYSIS

CAROLINA ENVIRONMENTAL, INC.
107 New Edition Court, Cary, NC 27511
Phone: (919) 481-1413 Fax: (919) 481-1442

Client: WTR Consulting Engineers, LLC

210 East Lyndale
Helena, MT 59601

CEI Lab Code: A07-5512
Received: 07-09-07
Analyzed: 07-13-07
Reported: 07-13-07
Analyst: Gregory J. Hanes

Project: HHA - Daycare; 07912-1.1

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
M1.1-A	A629125	SHEETROCK/JOINT COMPOUND/TAPE Heterogeneous, White, Tan, Fibrous, Bound	ND
		CELL 72% FBGL 3% PLAS 5%	
M1.1-B	A629126	SHEETROCK/JOINT COMPOUND/TAPE Heterogeneous, White, Tan, Fibrous, Bound	ND
		CELL 72% FBGL 3% PLAS 5%	
M1.1-C	A629127	SHEETROCK/JOINT COMPOUND/TAPE Heterogeneous, White, Tan, Fibrous, Bound CHRY <1% GYPSUM 72% CELL 20% FBGL 3% PLAS 5%	<1% CHRY
		Joint compound contains 2% Chry; Sample contains <1% Chry overall	
M1.1-D	A629128	SAMPLE NOT ANALYZED AS PER COC	
M1.1-E	A629129	SAMPLE NOT ANALYZED AS PER COC	
S1.1-A	A629130	TEXTURE Heterogeneous, White, Fibrous, Bound PLAS 52% CELL 3% PAINT 5% FOAM 40%	ND

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
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S1-1-B	A629131	Heterogeneous, White, Fibrous, Bound TEXTURE PLAS 52% FOAM 40% PAINT 5%	CELL 3%
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S1-1-C	A629132	Heterogeneous, White, Fibrous, Bound TEXTURE PLAS 52% FOAM 40% PAINT 5%	CELL 3%
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F2.3-A	A629133	Heterogeneous, Brown, Grey, Fibrous, Bound LINOLEUM CHRY 25% VINYL 50% BIND 5%	CELL 25%
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F2.3-B	A629134	SAMPLE NOT ANALYZED AS PER COC	
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F2.3-C	A629135	SAMPLE NOT ANALYZED AS PER COC	
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F2.4-A	A629136	Heterogeneous, Lt. Brown, Grey, Fibrous, Bound LINOLEUM CHRY 25% VINYL 50% BIND 5%	CELL 25%
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F2.4-B	A629137	SAMPLE NOT ANALYZED AS PER COC	
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CAROLINA ENVIRONMENTAL, INC.
 107 New Edition Court, Cary, NC 27511
 Phone: 919-481-1413 Fax: 919-481-1442

Project: HHA - Daycare; 07912-1.1
 Lab Code: A07-5512

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
F2.4-C	A629138	SAMPLE NOT ANALYZED AS PER COC	

#410 F3.13-A	A629139	FLOOR TILE	Heterogeneous, Peach Non-fibrous, Tightly Bound	VINYL	55 %	CELL	45 %	< 1 %	ND
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#410 F3.13-B	A629140	FLOOR TILE	Heterogeneous, Peach Non-fibrous, Tightly Bound	VINYL	55 %	CELL	45 %	< 1 %	ND
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#410 F3.13-C	A629141	FLOOR TILE	Heterogeneous, Peach Non-fibrous, Tightly Bound	VINYL	55 %	CELL	45 %	< 1 %	ND
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The following definitions apply to the abbreviations used in the ASBESTOS BULK ANALYSIS REPORT:

CHRY = Chrysotile	CELL = Cellulose	DEBR = Debris
AMOS = Amosite	FBGL = Fibrous Glass	BIND = Binder
CROC = Crocidolite	ORGN = Organics	SILI = Silicates
TREM = Tremolite	SYNT = Synthetics	GRAV = Gravel
ANTH = Anthophyllite	WOLL = Wollastonite	MAST = Mastic
ACTN = Actinolite	CERWL = Ceramic Wool	PLAS = Plaster
N D = None Detected	NTRREM = Non-Asbestiform Tremolite	PERL = Perlite
NANTH = Non-Asbestiform Anthophyllite	FBGY = Fibrous Gypsum	RUBR = Rubber
		VER = Vermiculite

CLIENT: WTR Consulting Engineers, LLC

PROJECT: HHA - Daycare; 07912-1.1

CEI LAB CODE: A07-5512

Microscopic microscopy and polarized light microscopy coupled with dispersion staining is the analytical technique used for sample identification. The percentage of each component is visually estimated by volume. These results pertain only to the samples analyzed. The samples were analyzed as submitted by the client and may not be representative of the larger material in question. Unless notified in writing to return samples, Carolina Environmental, Inc. will discard all bulk samples after 30 days.

Many vinyl floor tiles have been manufactured using greater than 1% asbestos. Often the asbestos was milled to a fiber size below the detection limit of polarized light microscopy. Therefore, a "None Detected" (ND) reading on vinyl floor tile does not necessarily exclude the presence of asbestos. Transmission electron microscopy provides a more conclusive form of analysis for vinyl floor tiles.

is certified by the signature below that Carolina Environmental, Inc. is accredited by the National Voluntary Accreditation program (NVLAP) for the analysis of asbestos in bulk materials. The accredited test method is EPA / 600 / M4-82 / 020 for the analysis of asbestos in building materials. Procedures described in EPA / 600 / R-93 / 116 have been incorporated here applicable. The detection limit for the method is 0.1% (trace amount). Carolina Environmental, Inc.'s NVLAP accreditation number is #101768-0. This report is not to be used to claim product endorsement by NVLAP or any agency of the U. S. Government. This report and its contents are only valid when reproduced in full. Dust and soil analyses for asbestos using PLM are not covered under NVLAP accreditation.

ANALYST

[Signature]

REVIEWED BY

[Signature]

Tianbao Bai, Ph.D.
Laboratory Director

End of Report

Percentage of ACM Coverage in Apartments

Appendix I

Table 2.1: Percentage of ACM Coverage in Stewart Housing Complex Apartments

Apt #	Bldg #	Floor plan Style	# Levels	# Beds	Flooring Only										Walls Drywall/ Tape/Paste (If Composite is <1%)		
					Living	Kitchen	Stairs	Hall	Bedrooms	Extra Room (Style "H" only)	Bath	Utility					
101	1	A	1	1	Wood				Wood	Wood							
102	1	A	1	1	Wood				Wood	Wood							
103	2	A	1	1	Wood				Wood	Wood							
104	2	A	1	1	Wood				Wood	Wood							
105	3	C	1	3	Wood				Wood	Wood							
106	3	C	1	3	Wood				Wood	Wood							
107	4	A	1	1	Wood				Wood	Wood							
108	4	A	1	1	Wood				Wood	Wood							
109	5	B	1	2	100%/F3.2, 100%/F2.2				Wood	Wood							
110	5	B	1	2	Wood				Wood	Wood							
111	6	A	1	1	Wood				Wood	Wood							
112	6	A	1	1	Wood				Wood	Wood							
113	7	C	1	3	Wood				Wood	Wood							
114	7	C	1	3	Wood				Wood	Wood							
115	8	A	1	1	Wood	5%/F3.6, 100%/F2.2			Wood	Wood							
116	8	A	1	1	Wood				Wood	Wood							
117	9	C	1	3	Wood				Wood	Wood							
118	9	C	1	3	Wood				Wood	Wood							
119	10	A	1	1	Wood				Wood	Wood							
120	10	A	1	1	Wood				Wood	Wood							
121	11	A	1	1	Wood				Wood	Wood							
122	11	A	1	1	Wood				Wood	Wood							
123	12	D	2	2	Wood				Wood	Wood							
124	12	D	2	2	Wood				Wood	Wood							
125	12	D	2	2	Wood				Wood	Wood							
126	12	D	2	2	Wood				Wood	Wood							
127	12	D	2	2	Wood				Wood	Wood							
128	12	D	2	2	Wood				Wood	Wood							
129	13	D	2	2	Wood				Wood	Wood							
130	13	D	2	2	Wood				Wood	Wood							
131	13	D	2	2	Wood				Wood	Wood							
132	13	D	2	2	Wood				Wood	Wood							
133	13	D	2	2	Wood				Wood	Wood							
134	13	D	2	2	Wood				Wood	Wood							
135	14	D	2	2	Wood				Wood	Wood							

Table 2.1: Percentage of ACM Coverage in Stewart Housing Complex Apartments

Apt #	Bldg #	Floor plan Style	# Levels	# Beds	Flooring Only							Walls Drywall/ Tape/Paste (If composite is <1%)		
					Living	Kitchen	Stairs	Hall	Bedrooms	Extra Room (Style "1" only)	Bath		Utility	
136	14	D	2	2	Wood	100%/F3.2	100%/F3.4	Wood	Wood			Ceramic Tile	Ceramic Tile	
137	14	D	2	2	Wood	100%/F3.2	100%/F3.4	Wood	Wood			Ceramic Tile	Ceramic Tile	
138	14	D	2	2	Wood	100%/F3.4	100%/F3.4	Wood	Wood			Ceramic Tile	Ceramic Tile	
139	14	D	2	2	Wood	100%/F3.4	100%/F3.4	Wood	Wood			Ceramic Tile	Ceramic Tile	
140	14	D	2	2	Wood	100%/F3.4	100%/F3.4	Wood	Wood			Ceramic Tile	Ceramic Tile	
141	15	D	2	2	Wood	100%/F3.4	100%/F3.4	Wood	Wood			Ceramic Tile	Ceramic Tile	
142	15	D	2	2	Wood	100%/F3.4	100%/F3.4	Wood	Wood			Ceramic Tile	Ceramic Tile	
143	15	D	2	2	Wood	100%/F3.4	100%/F3.4	Wood	Wood			Ceramic Tile	Ceramic Tile	
144	15	D	2	2	Wood	100%/F3.4	100%/F3.4	Wood	Wood			Ceramic Tile	Ceramic Tile	
145	15	D	2	2	Wood	100%/F3.4	100%/F3.4	Wood	Wood			Ceramic Tile	Ceramic Tile	
146	15	D	2	2	Wood	100%/F3.4	100%/F3.4	Wood	Wood			Ceramic Tile	Ceramic Tile	
201	16	A	1	1	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
202	16	A	1	1	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
203	17	A	1	1	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
204	17	A	1	1	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
205	18	A	1	1	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
206	18	A	1	1	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
207	19	A	1	1	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
208	19	A	1	1	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
209	20	B	1	1	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
210	20	B	1	2	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
211	21	A	1	1	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
212	21	A	1	1	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
213	22	A	1	1	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
214	22	A	1	1	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
215	23	C	1	3	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
216	23	C	1	3	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
217	24	A	1	1	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
218	24	A	1	1	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
219	25	C	1	3	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
220	25	C	1	3	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
221	26	C	1	3	100%/F3.10	100%/F3.2		100%/F3.10	100%/F3.10			50%/F3.7, 50%/F3.2	Ceramic Tile	
222	26	C	1	3	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	
223	27	C	1	3	Wood			Wood	Wood			Ceramic Tile	Ceramic Tile	

Table 2.1: Percentage of ACM Coverage in Stewart Housing Complex Apartments

Apt #	Bldg #	Floor plan Style	# Levels	# Beds	Flooring Only										Walls	
					Living	Kitchen	Stairs	Hall	Bedrooms	Extra Room (Style "H" only)	Bath	Utility				
224	27	C	1	3	Wood				Wood	Wood			Ceramic Tile	Ceramic Tile		Drywall/Tape/Paste (If composite is <1%)
225	28	C	1	3	Wood				Wood	Wood			Ceramic Tile	Ceramic Tile		
226	28	C	1	3	Wood				Wood	Wood			Ceramic Tile	Ceramic Tile		
301	29	E	1	1	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			50%/F3.7, 50%/F3.2	100%/F3.2, 100%/F2.2		100%/M1.2
302	29	E	1	1	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			Ceramic Tile	100%/F3.2, 100%/F2.2		100%/M1.2
303	29	E	1	1	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			Ceramic Tile	100%/F3.2, 100%/F2.2		100%/M1.2
304	29	E	1	1	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			Ceramic Tile	100%/F3.2, 100%/F2.2		100%/M1.2
305	30	E	1	1	50%/F3.7, 50%/F3.2	50%/F3.7, 50%/F3.2			50%/F3.7, 50%/F3.2	50%/F3.7, 50%/F3.2			Ceramic Tile	50%/F3.7, 50%/F3.2		100%/M1.2
306	30	E	1	1	50%/F3.7, 50%/F3.2	50%/F3.7, 50%/F3.2			100%/F3.2	100%/F3.2			100%/F3.7	100%/F3.2		100%/M1.2
307	30	E	1	1	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			Ceramic Tile	100%/F3.2, 100%/F2.2		100%/M1.2
308	30	E	1	1	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			Ceramic Tile	100%/F3.2, 100%/F2.2		100%/M1.2
309	31	G	2	3	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4		100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			Ceramic Tile	100%/F3.2, 100%/F2.2		100%/M1.2
310	31	G	2	3	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4		100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			Ceramic Tile	100%/F3.2, 100%/F2.2		100%/M1.2
311	31	G	2	3	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4		100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			Ceramic Tile	100%/F3.2, 100%/F2.2		100%/M1.2
312	31	G	2	3	100%/F3.4	100%/F3.4	100%/F3.4		90%/F3.4	100%/F3.4			Ceramic Tile	90%/F3.4		100%/M1.2
313	32	G	2	3	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4		100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			Ceramic Tile	100%/F3.2, 100%/F2.2		100%/M1.2
314	32	G	2	3	98%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4		100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			Ceramic Tile	100%/F3.2, 100%/F2.2		100%/M1.2
315	32	G	2	3	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4		100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			Ceramic Tile	100%/F3.2, 100%/F2.2		100%/M1.2
316	32	G	2	3	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4		100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			Ceramic Tile	100%/F3.2, 100%/F2.2		100%/M1.2
317	33	E	1	1	Carpet	100%/F3.2, 100%/F2.2			100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			Ceramic Tile	100%/F3.2, 100%/F2.2		100%/M1.2

Table 2.1: Percentage of ACM Coverage in Stewart Housing Complex Apartments

Apt #	Bldg #	Floor plan Style	# Levels	# Beds	Flooding Only										Walls Drywall/ Tape/Paste (If Compound is 2% composite is <1%)
					Living	Kitchen	Stairs	Hall	Bedrooms	Extra Room (Style H only)	Bath	Utility			
318	33	E	1	1	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
319	33	E	1	1	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
320	33	E	1	1	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2			Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
321	34	G	2	3	100%/F3.2, 100%/F2.2	50%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
322	34	G	2	3	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
323	34	G	2	3	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
324	34	G	2	3	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
401	35	F	2	2	100%/F3.7	100%/F3.7	100%/F3.4	100%/F3.7	100%/F3.7	100%/F3.7		Ceramic Tile	100%/F3.7	100%/M1.2	
402	35	F	2	2	100%/F3.7	100%/F3.7	100%/F3.4	100%/F3.7	100%/F3.7	100%/F3.7		Ceramic Tile	100%/F3.7	100%/M1.2	
403	35	F	2	2	100%/F3.7	100%/F3.7	100%/F3.4	100%/F3.7	100%/F3.7	100%/F3.7		Ceramic Tile	100%/F3.7	100%/M1.2	
404	35	F	2	2	100%/F3.7	100%/F3.7	100%/F3.4	100%/F3.7	100%/F3.7	100%/F3.7		Ceramic Tile	99%/F3.7, 1%/F3.2	100%/M1.2	
405	36	G	2	3	98%/F3.7, 2%/F3.10	100%/F3.7	100%/F3.4	100%/F3.7	100%/F3.7	100%/F3.7		Ceramic Tile	100%/F3.7	100%/M1.2	
406	36	G	2	3	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	95%/F3.2, 100%/F2.2, 5%/F3.10	100%/M1.2	
407	36	G	2	3	98%/F3.2, 2%/F3.7	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
408	36	G	2	3	100%/F3.2, 100%/F2.2	98%/F3.2, 2%/F3.10	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	99%/F3.2, 100%/F2.2, 1%/F3.10	100%/M1.2	
409	37	H	2	4	100%/F3.7	100%/F3.7	100%/F3.4	100%/F3.7	100%/F3.7	100%/F3.7		Ceramic Tile	100%/F3.7	100%/M1.2	
410	37	H	2	4	99%/F3.10, 1%/F3.12	100%/F3.7, 100%/F3.3, 100%/F3.4	100%/F3.4	95%/F3.7, 5%/F3.10	100%/F3.7	100%/F3.7		Ceramic Tile	100%/F3.7	100%/M1.2	

Table 2.1: Percentage of ACM Coverage in Stewart Housing Complex Apartments

Apt #	Bldg #	Floor plan Style	# Levels	# Beds	Flooring Only										Walls Drywall/ Tape/Paste (If Compound is 2% composite is <1%)
					Living	Kitchen	Stairs	Hall	Bedrooms	Extra Room (Style "H" only)	Bath	Utility			
411	38	F	2	2	100%/F3.2, 100%/F2.2	99%/F3.2, 100%/F2.2, 1%/F3.10	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
412	38	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
413	38	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
414	38	F	2	2	100%/F3.7	100%/F3.7	100%/F3.4	100%/F3.7	100%/F3.7	99%/F3.2, 100%/F2.2, 1%/F3.7		Ceramic Tile	100%/F3.7	100%/M1.2	
415	39	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
416	39	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
417	39	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
418	39	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
419	40	F	2	2	100%/F3.2, 100%/F3.7	100%/F3.7	100%/F3.4	100%/F3.7	100%/F3.7	100%/F3.2, 100%/F3.7		Ceramic Tile	100%/F3.7	100%/M1.2	
420	40	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.7	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.10, 100%/F3.11	100%/M1.2	
421	40	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
422	40	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4, 2%/F3.7	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
423	41	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
424	41	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
425	41	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
426	41	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
427	42	H	2	4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.7	Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
428	42	H	2	4	100%/F3.2, 100%/F2.2	50%/F3.8, 50%/F3.3	100%/F3.7	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.7	Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	

Table 2. 1: Percentage of ACM Coverage in Stewart Housing Complex Apartments

Apt #	Bldg #	Floor plan Style	# Levels	# Beds	Flooring Only										Walls
					Living	Kitchen	Stairs	Hall	Bedrooms	Extra Room (Style "H" only)	Bath	Utility			
429	43	F	2	2	100%/F3.2, 100%/F2.2	95%/F3.2, 100%/F2.2, 5%/F3.7	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
430	43	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
431	43	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
432	43	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	95%/F3.2, 100%/F2.2, 5%/F3.7	100%/M1.2	
433	44	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
434	44	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
435	44	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	
436	44	F	2	2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.4	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2	100%/F3.2, 100%/F2.2		Ceramic Tile	100%/F3.2, 100%/F2.2	100%/M1.2	

Assumptions:
 HA # F2.2 lies underneath F3.6/F3.2/F3.3 where they are the main covering.

