

Appendix F
Carolina Environmental, Inc. – Laboratory Report
(Apartments)

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: A07-5233
Received: 06-27-07
Analyzed: 07-03-07
Reported: 07-03-07
Analyst: Ashley Miller

Project: 07912-1.1

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
53.1A	A624591	CEILING TILE Heterogeneous, White, Fibrous, Loosely Bound PERL 20% PAINT 5% CELL 60% FBGL 15%	ND
53.1B	A624592	CEILING TILE Heterogeneous, White, Fibrous, Loosely Bound PERL 20% PAINT 5% CELL 60% FBGL 15%	ND
53.1C	A624593	CEILING TILE Heterogeneous, White, Fibrous, Loosely Bound PERL 20% PAINT 5% CELL 60% FBGL 15%	ND
53.2A	A624594	CEILING TILE Heterogeneous, White, Fibrous, Loosely Bound PERL 20% PAINT 5% CELL 60% FBGL 15%	ND
53.2B	A624595	CEILING TILE Heterogeneous, White, Fibrous, Loosely Bound PERL 20% PAINT 5% CELL 60% FBGL 15%	ND
53.2C	A624596	CEILING TILE Heterogeneous, White, Fibrous, Loosely Bound PERL 20% PAINT 5% CELL 60% FBGL 15%	ND

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
M1.1A	A624597	WALLBOARD/JOINT COMPOUND Heterogeneous, White, Fibrous, Bound GYP SUM 80% BIND 5% PAINT 5%	ND
M1.1B	A624598	WALLBOARD Heterogeneous, White, Fibrous, Bound GYP SUM 85% PAINT 5%	ND
M1.1C	A624599	WALLBOARD/JOINT COMPOUND Heterogeneous, White, Fibrous, Bound GYP SUM 80% PAINT 5% BIND 5%	ND
M1.2A	A624600	WALLBOARD/JOINT COMPOUND Heterogeneous, White, Fibrous, Bound CHRY <1% GYP SUM 80% PAINT 5% BIND 5%	CHRY <1%
M1.2B	A624601	WALLBOARD/JOINT COMPOUND Heterogeneous, White, Fibrous, Bound CHRY <1% GYP SUM 80% PAINT 5% BIND 5%	CHRY <1%
M1.2C	A624602	WALLBOARD/JOINT COMPOUND Heterogeneous, White, Fibrous, Bound CHRY <1% GYP SUM 80% PAINT 5% BIND 5%	CHRY <1%
M1.2D	A624603	WALLBOARD/JOINT COMPOUND Heterogeneous, White, Fibrous, Bound GYP SUM 80% PAINT 5% BIND 5%	ND

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CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
M1.2E	A624604	WALLBOARD/JOINT COMPOUND Heterogeneous, White, Fibrous, Bound CHRY <1% GYPSUM 80% PAINT 5% BIND 5%	CHRY <1%
M1.2F	A624605	WALLBOARD/JOINT COMPOUND Heterogeneous, White, Fibrous, Bound CHRY <1% GYPSUM 80% PAINT 5% BIND 5%	CHRY <1%
M1.2G	A624606	WALLBOARD/JOINT COMPOUND Heterogeneous, White, Fibrous, Bound CHRY <1% GYPSUM 80% PAINT 5% BIND 5%	CHRY <1%
M1.2H	A624607	WALLBOARD/JOINT COMPOUND Heterogeneous, White, Fibrous, Bound CHRY <1% GYPSUM 80% PAINT 5% BIND 5%	CHRY <1%
M1.2I	A624608	WALLBOARD/JOINT COMPOUND Heterogeneous, White, Fibrous, Bound CHRY <1% GYPSUM 80% PAINT 5% BIND 5%	CHRY <1%
M1.2J	A624609	WALLBOARD/JOINT COMPOUND Heterogeneous, White, Fibrous, Bound CHRY <1% GYPSUM 80% PAINT 5% BIND 5%	CHRY <1%
M1.2K	A624610	WALLBOARD/JOINT COMPOUND Heterogeneous, White, Fibrous, Bound CHRY <1% GYPSUM 80% PAINT 5% BIND 5%	CHRY <1%

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
M1.3A	A624611	Heterogeneous, <u>PLASTER</u> White, Fibrous, Bound PLAS 95% CELL 5%	ND
M1.3B	A624612	Heterogeneous, <u>PLASTER</u> White, Fibrous, Bound PLAS 95% CELL 5%	ND
M1.3C	A624613	Heterogeneous, <u>PLASTER</u> White, Fibrous, Bound PLAS 95% CELL 5%	ND
FX.1A	A624614	Heterogeneous, <u>CERAMIC TILE GROUT</u> Off-white, Fibrous, Bound BIND 75% SILI 25% CELL <1%	ND
FX.1B	A624615	Heterogeneous, <u>CERAMIC TILE GROUT</u> Off-white, Fibrous, Bound BIND 75% SILI 25% CELL <1%	ND
FX.1C	A624616	Heterogeneous, <u>CERAMIC TILE GROUT</u> Off-white, Grey, Fibrous, Bound BIND 75% SILI 25% CELL <1%	ND
FX.1D	A624617	Heterogeneous, <u>CERAMIC TILE GROUT</u> Off-white, Grey, Fibrous, Bound BIND 75% SILI 25% CELL <1%	ND

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CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
FX.1E	A624618	Heterogeneous, CERAMIC TILE GROUT Off-white, Grey, Fibrous, Bound BIND 75% SILI 25%	CELL <1%
FX.1F	A624619	Heterogeneous, CERAMIC TILE GROUT Off-white, Grey, Fibrous, Bound BIND 75% SILI 25%	CELL <1%
FX.1G	A624620	Heterogeneous, CERAMIC TILE GROUT Off-white, White, Fibrous, Bound BIND 75% SILI 25% PAINT <1%	CELL <1%
FX.1H	A624621	Heterogeneous, CERAMIC TILE GROUT Off-white, Fibrous, Bound BIND 75% SILI 25%	CELL <1%
FX.1I	A624622	Heterogeneous, CERAMIC TILE GROUT Off-white, Fibrous, Bound BIND 75% SILI 25%	CELL <1%
FX.2A	A624623	Heterogeneous, CERAMIC TILE GROUT Off-white, Fibrous, Bound BIND 75% SILI 25%	CELL <1%
FX.2B	A624624	Heterogeneous, CERAMIC TILE GROUT Off-white, Fibrous, Bound BIND 75% SILI 25%	CELL <1%

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
FX.2C	A624625	Heterogeneous, <u>TILE GROUT</u> Off-white, Fibrous, Bound BIND 75% SILI 25%	CELL <1%
FX.2D	A624626	Heterogeneous, <u>TILE GROUT</u> Grey, Fibrous, Bound BIND 75% SILI 25%	CELL <1%
FX.2E	A624627	Heterogeneous, <u>CERAMIC TILE</u> Beige, Fibrous, Bound BIND 100%	CELL <1%
FX.2F	A624628	Heterogeneous, <u>CERAMIC TILE/GROUT</u> Beige, Grey, Fibrous, Bound BIND 90% SILI 10%	CELL <1%
FX.2G	A624629	Heterogeneous, <u>CERAMIC TILE/GROUT</u> Beige, Grey, Fibrous, Bound BIND 90% SILI 10%	CELL <1%
FX.2H	A624630	Heterogeneous, <u>TILE GROUT</u> Grey, Fibrous, Bound BIND 90% SILI 10%	CELL <1%
FX.2I	A624631	Heterogeneous, <u>TILE GROUT</u> Grey, Fibrous, Bound BIND 90% SILI 10%	CELL <1%

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
FX.3A	A624632	Heterogeneous, White, Fibrous, Bound TILE GROUT BIND	100% CELL <1%
FX.3B	A624633	Heterogeneous, White, Fibrous, Bound TILE GROUT BIND	100% CELL <1%
FX.3C	A624634	Heterogeneous, White, Fibrous, Bound TILE GROUT BIND	100% CELL <1%
FX.3D	A624635	Heterogeneous, White, Fibrous, Bound TILE GROUT BIND	100% CELL <1%
FX.3E	A624636	Heterogeneous, White, Fibrous, Bound TILE GROUT BIND	100% CELL <1%
FX.3F	A624637	Heterogeneous, White, Fibrous, Bound TILE GROUT BIND	100% CELL <1%
FX.3G	A624638	Heterogeneous, White, Fibrous, Bound TILE GROUT BIND	100% CELL <1%

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
FX.3H	A624639	Heterogeneous, <u>TILE GROUT</u> White, Fibrous, Bound BIND 100% CELL <1%	ND
FX.3I	A624640	Heterogeneous, <u>CERAMIC TILE/GROUT</u> White, Fibrous, Bound BIND 100% CELL <1%	ND
FX.4A	A624641	Heterogeneous, <u>BLACK UNDERLAY PAPER/MASTIC</u> Black, Fibrous, Bound TAR 30% CELL 60% MAST 10%	ND
FX.4B	A624642	Heterogeneous, <u>BLACK UNDERLAY PAPER/MASTIC</u> Black, Fibrous, Bound TAR 30% CELL 60% MAST 10%	ND
FX.4C	A624643	Heterogeneous, <u>BLACK UNDERLAY PAPER/MASTIC</u> Black, Fibrous, Bound TAR 30% CELL 60% MAST 10%	ND
MX.1A	A624644A	Heterogeneous, <u>SKIM COAT</u> White, Fibrous, Bound BIND 95% CELL <1% PAINT 5%	ND
	A624644B	Heterogeneous, <u>BROWN WALL COATING</u> Brown, Fibrous, Bound BIND 95% CELL 5%	ND

CLIENT ID	CEL LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %	
MX.1B	A624645	Heterogeneous, Brown, Fibrous, Bound BROWN WALL COATING	90 %	5 %
		BIND		
		PAINT		
MX.1C	A624646	Heterogeneous, Brown, Fibrous, Bound BROWN WALL COATING	90 %	5 %
		BIND		
		PAINT		
MX.2A	A624647	Heterogeneous, Grey, Fibrous, Bound SINK COATING	80 %	20 %
		BIND		
		MICA		
MX.2B	A624648	Heterogeneous, Grey, Fibrous, Bound SINK COATING	80 %	20 %
		BIND		
		MICA		
MX.2C	A624649	Heterogeneous, Grey, Fibrous, Bound SINK COATING	80 %	20 %
		BIND		
		MICA		
MX.2D	A624650	Heterogeneous, Grey, Fibrous, Bound SINK COATING	80 %	20 %
		BIND		
		MICA		
MX.2E	A624651	Heterogeneous, Grey, Fibrous, Bound SINK COATING	80 %	20 %
		BIND		
		MICA		

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
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MX.2F	A624652	Heterogeneous, SINK COATING Grey, Fibrous, Bound BIND MICA	80% <1% 20%
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MX.2G	A624653	Heterogeneous, SINK COATING Grey, Fibrous, Bound BIND MICA	80% <1% 20%
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TS11.1A	A624654	Heterogeneous, TSI PIPE INSULATION Grey, Fibrous, Loosely Bound CHRY 60% BIND	35% 5%
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TS11.1B	A624655	Heterogeneous, TSI PIPE INSULATION Grey, Fibrous, Loosely Bound CHRY 60% BIND	35% 5%
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TS11.1C	A624656	Heterogeneous, TSI PIPE INSULATION Grey, Fibrous, Loosely Bound CHRY 60% BIND	35% 5%
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TX.1A	A624657	Heterogeneous, BLOWN-IN INSULATION Grey, Fibrous, Loosely Bound BIND	20% 80%
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TX.1B	A624658	Heterogeneous, BLOWN-IN INSULATION Grey, Fibrous, Loosely Bound BIND	20% 80%
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TX.1C	A624659	BLOWN-IN INSULATION Heterogeneous, Grey, Fibrous, Loosely Bound	20% CELL
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TX.2A	A624660	SEAL COAT TEXTURE Heterogeneous, Pink, Fibrous, Bound	90% CELL
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TX.2B	A624661	SEAL COAT TEXTURE Heterogeneous, Pink, Fibrous, Bound	90% CELL
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TX.2C	A624662	SEAL COAT TEXTURE Heterogeneous, Pink, Fibrous, Bound	90% CELL
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F2.1A	A624663	SHEET FLOORING Heterogeneous, Green, Yellow, Fibrous, Bound	30% TAR 30% VINYL CELL
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F2.1B	A624664	SHEET FLOORING Heterogeneous, Green, Yellow, Fibrous, Bound	30% TAR 30% VINYL CELL
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F2.1C	A624665	SHEET FLOORING Heterogeneous, Green, Yellow, Fibrous, Bound	30% TAR 30% VINYL CELL
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CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
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M2.1A	A624666A	PLASTER SKIM COAT Heterogeneous, White, Non-fibrous, Bound PLAS 95 % PAINT 5 %	ND
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M2.1B	A624666B	PLASTER BASE COAT Heterogeneous, Grey, Fibrous, Bound PLAS 75 % GRAV 25 % CELL <1 % HAIR <1 %	ND
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M2.1B	A624667A	PLASTER SKIM COAT Heterogeneous, White, Non-fibrous, Bound PLAS 95 % PAINT 5 %	ND
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M2.1C	A624667B	PLASTER BASE COAT Heterogeneous, Grey, Fibrous, Bound PLAS 75 % GRAV 25 % CELL <1 % HAIR <1 %	ND
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M2.1C	A624668A	PLASTER SKIM COAT Heterogeneous, White, Non-fibrous, Bound PLAS 95 % PAINT 5 %	ND
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M2.1D	A624668B	PLASTER BASE COAT Heterogeneous, Grey, Fibrous, Bound PLAS 75 % GRAV 25 % CELL <1 % HAIR <1 %	ND
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M2.1D	A624669A	PLASTER SKIM COAT Heterogeneous, White, Non-fibrous, Bound PLAS 95 % PAINT 5 %	ND
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CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
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M2.1E	A624670A	Heterogeneous, White, Non-fibrous, Bound <u>PLASTER SKIM COAT</u> PLAS 95% PAINT 5%	ND
M2.1F	A624671	Heterogeneous, White, Fibrous, Bound <u>PLASTER WALL</u> PLAS 90% CELL 5% HAIR <1%	ND
M2.1G	A624672	Heterogeneous, White, Fibrous, Bound <u>PLASTER WALL</u> PLAS 90% CELL 5% HAIR <1%	ND
M2.1H	A624673	Heterogeneous, White, Fibrous, Bound <u>PLASTER WALL</u> PLAS 90% CELL 5% HAIR <1%	ND
M2.1I	A624674	Heterogeneous, White, Fibrous, Bound <u>PLASTER WALL</u> PLAS 90% CELL 5% PAINT 5%	ND

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
M2.1J	A624675	Heterogeneous, <u>PLASTER WALL</u> White, Fibrous, Bound PLAS 90% PAINT 5%	ND
M2.1K	A624676	Heterogeneous, <u>PLASTER WALL</u> White, Fibrous, Bound PLAS 90% PAINT 5%	ND
M2.1L	A624677	Heterogeneous, <u>PLASTER WALL</u> White, Fibrous, Bound PLAS 90% PAINT 5%	ND
F3.1A	A624678A	Homogeneous, <u>FLOOR TILE</u> White, Beige, Fibrous, Bound VINYL 95% CELL 5%	ND
F3.1B	A624679A	Homogeneous, <u>FLOOR TILE</u> White, Beige, Fibrous, Bound VINYL 95% CELL 5%	ND
	A624678B	Heterogeneous, <u>MASTIC/BACKING</u> White, Tan, Fibrous, Bound MAST 60% BIND 30% CELL 10%	ND
	A624679B	Heterogeneous, <u>MASTIC/BACKING</u> White, Tan, Fibrous, Bound MAST 60% BIND 30% CELL 10%	ND

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
F3.1C	A624680A	Homogeneous, <u>FLOOR TILE</u> White, Beige, Fibrous, Bound VINYL 95% CELL 5%	ND
	A624680B	Heterogeneous, <u>MASTIC/BACKING</u> White, Tan, Fibrous, Bound MAST 60% CELL 10% BIND 30%	ND
F3.2A	A624681A	Homogeneous, <u>FLOOR TILE</u> Grey, Brown, Fibrous, Bound VINYL 100% CELL <1%	ND
	A624681B	Heterogeneous, <u>MASTIC</u> Black, Fibrous, Bound CHRY 5% MAST 95% CELL <1% 5% CHRY	
F3.2B	A624682A	Homogeneous, <u>FLOOR TILE</u> Grey, Brown, Fibrous, Bound VINYL 100% CELL <1%	ND
	A624682B	Heterogeneous, <u>MASTIC</u> Yellow, Fibrous, Bound MAST 100% CELL <1%	ND
F3.2C	A624683A	Homogeneous, <u>FLOOR TILE</u> Grey, Brown, Fibrous, Bound VINYL 100% CELL <1%	ND

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
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A624683B	Heterogeneous, Black, Fibrous, Bound MASTIC	CHRY 5% MAST 95% CELL	CHRY 5%
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F3.3A	Homogeneous, Grey, Brown, Bound FLOOR TILE	VINYL 100% CELL	ND
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A624684B	Heterogeneous, Yellow, Fibrous, Bound MASTIC	MAST 100% CELL	ND
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F3.3B	Homogeneous, Grey, Brown, Bound FLOOR TILE	VINYL 100% CELL	ND
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A624685B	Heterogeneous, Yellow, Fibrous, Bound MASTIC	MAST 100% CELL	ND
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F3.3C	Homogeneous, Grey, Brown, Bound FLOOR TILE	VINYL 100% CELL	ND
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A624686B	Heterogeneous, Black, Fibrous, Bound MASTIC	CHRY 5% MAST 95% CELL	CHRY 5%
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CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
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F3.3D	A624687A	FLOOR TILE Homogeneous, Black, Fibrous, Bound CHRY 10% VINYL 90% CELL <1%	CHRY 10%
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	A624687B	MASTIC/FELT Heterogeneous, Black, Fibrous, Bound CHRY 2% MAST 78% CELL 20%	CHRY 2%
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F3.3E	A624688A	FLOOR TILE Homogeneous, Black, Fibrous, Bound CHRY 10% VINYL 90% CELL <1%	CHRY 10%
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	A624688B	MASTIC/FELT Heterogeneous, Black, Fibrous, Bound CHRY 2% MAST 78% CELL 20%	CHRY 2%
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F3.3F	A624689A	FLOOR TILE Homogeneous, Black, Fibrous, Bound CHRY 10% VINYL 90% CELL <1%	CHRY 10%
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	A624689B	MASTIC/FELT Heterogeneous, Black, Fibrous, Bound CHRY 2% MAST 78% CELL 20%	CHRY 2%
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F3.8A	A624693A	FLOOR TILE Homogeneous, White, Beige, Fibrous, Bound CHRY 2% VINYL 98% CELL <1%	CHRY 2%
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CAROLINA ENVIRONMENTAL, INC.
 107 New Edition Court, Cary, NC 27511
 Phone: 919-481-1413 Fax: 919-481-1442

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ND	A624693B	MASTIC Homogeneous, Yellow, Fibrous, Bound	100 % CELL < 1 %
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F3.8B	A624694A	FLOOR TILE Homogeneous, White, Beige, Fibrous, Bound	CHRY 2% VINYL 98 % CELL < 1 %
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ND	A624694B	MASTIC Homogeneous, Yellow, Fibrous, Bound	100 % CELL < 1 %
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F3.8C	A624695A	FLOOR TILE Homogeneous, White, Beige, Fibrous, Bound	CHRY 2% VINYL 98 % CELL < 1 %
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ND	A624695B	MASTIC Homogeneous, Yellow, Fibrous, Bound	100 % CELL < 1 %
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F3.9A	A624696A	FLOOR TILE Homogeneous, Pink, White, Fibrous, Bound	VINYL 95 % CELL 5 %
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ND	A624696B	MASTIC Heterogeneous, Tan, Fibrous, Bound	MAST 80 % CELL 10 % DEBR 10 %
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CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
F3.9B	A624697A	FLOOR TILE Homogeneous, Pink, White, Fibrous, Bound VINYL 95% CELL 5%	ND
F3.9C	A624697B	MASTIC Heterogeneous, Tan, Fibrous, Bound MAST 80% DEBR 10% CELL 10%	ND
F3.9C	A624698A	FLOOR TILE Homogeneous, Pink, White, Fibrous, Bound VINYL 95% CELL 5%	ND
F3.10A	A624698B	MASTIC Heterogeneous, Tan, Fibrous, Bound MAST 80% DEBR 10% CELL 10%	ND
F3.10A	A624699A	FLOOR TILE Homogeneous, Brown, White, Fibrous, Bound VINYL 95% CELL 5%	ND
F3.10B	A624699B	MASTIC Heterogeneous, Black, Fibrous, Bound CHRY 5% MAST 85% CELL 10%	CHRY 5%
F3.10B	A624700A	FLOOR TILE Homogeneous, Brown, White, Fibrous, Bound VINYL 95% CELL 5%	ND

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
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A624700B		Heterogeneous, MASTIC Black, Fibrous, Bound CHRY 5% MAST 85% CELL 10%	CHRY 5%
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F3.10C	A624701A	Homogeneous, FLOOR TILE Brown, White, Fibrous, Bound VINYL 95% CELL 5%	ND
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A624701B		Heterogeneous, MASTIC Black, Fibrous, Bound CHRY 5% MAST 85% CELL 10%	CHRY 5%
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F3.6A	A624702A	Homogeneous, FLOOR TILE Beige, Brown, Fibrous, Bound VINYL 95% CELL 5%	ND
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A624702B		Heterogeneous, MASTIC Black, Fibrous, Bound CHRY 5% MAST 85% CELL 10%	CHRY 5%
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F3.6B	A624703A	Homogeneous, FLOOR TILE Beige, Brown, Fibrous, Bound VINYL 95% CELL 5%	ND
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A624703B		Heterogeneous, MASTIC Black, Fibrous, Bound CHRY 5% MAST 85% CELL 10%	CHRY 5%
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CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
F3.6C	A624704A	FLOOR TILE Homogeneous, Beige, Brown, Fibrous, Bound VINYL 95% CELL 5%	ND
F3.4B	A624704B	MASTIC Heterogeneous, Black, Fibrous, Bound CHRY 5% MAST 85% CELL 10%	CHRY 5%
F3.4A	A624705A	FLOOR TILE Homogeneous, Grey, Brown, Fibrous, Bound CHRY 2% VINYL 98% CELL <1%	CHRY 2%
F3.4B	A624705B	MASTIC Homogeneous, Yellow, Fibrous, Bound MAST 100% CELL <1%	ND
F3.4B	A624706A	FLOOR TILE Homogeneous, Grey, Brown, Fibrous, Bound CHRY 2% VINYL 98% CELL <1%	CHRY 2%
F3.4C	A624706B	MASTIC Homogeneous, Yellow, Fibrous, Bound MAST 100% CELL <1%	ND
F3.4C	A624707A	FLOOR TILE Homogeneous, Grey, Brown, Fibrous, Bound CHRY 2% VINYL 98% CELL <1%	CHRY 2%

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
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F3.11A	A624708A	Homogeneous, FLOOR TILE Black, Fibrous, Bound CHRY 10% VINYL 90% CELL <1%	ND
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F3.11B	A624709A	Homogeneous, FLOOR TILE Black, Fibrous, Bound CHRY 10% VINYL 90% CELL <1%	5% CHRY
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F3.11C	A624710A	Homogeneous, FLOOR TILE Black, Fibrous, Bound CHRY 10% VINYL 90% CELL <1%	5% CHRY
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A624710B	MASTIC	Homogeneous, Black, Fibrous, Bound CHRY 5% MAST 95% CELL <1%	5% CHRY
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CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
F3.12A	A624711A	Homogeneous, Grey, Fibrous, Bound FLOOR TILE VINYL 100% CELL <1%	ND
F3.12B	A624712A	Homogeneous, Grey, Fibrous, Bound FLOOR TILE VINYL 100% CELL <1%	ND
F3.12C	A624713A	Homogeneous, Grey, Fibrous, Bound FLOOR TILE VINYL 100% CELL <1%	ND
F2.2A	A624714	Heterogeneous, Yellow, Fibrous, Bound SHEET FLOORING CHRY 20% VINYL 60% BIND 20% CELL <1%	CHRY 20%
F3.12A	A624711B	Homogeneous, Black, Fibrous, Bound MASTIC CHRY 5% MAST 95% CELL <1%	CHRY 5%
F3.12B	A624712B	Homogeneous, Black, Fibrous, Bound MASTIC CHRY 5% MAST 95% CELL <1%	CHRY 5%
F3.12C	A624713B	Homogeneous, Black, Fibrous, Bound MASTIC CHRY 5% MAST 95% CELL <1%	CHRY 5%

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
F2.2B	A624715	Heterogeneous, Yellow, Fibrous, Bound SHEET FLOORING	CHRY 20% VINYL 60% BIND 20% < 1% CELL
F2.2C	A624716	Heterogeneous, Yellow, Fibrous, Bound SHEET FLOORING	CHRY 20% VINYL 60% BIND 20% < 1% CELL
F2.2D	A624717	Heterogeneous, Yellow, Fibrous, Bound VINYL FLOORING	CHRY 20% VINYL 60% BIND 20% < 1% CELL
F2.2E	A624718	Heterogeneous, Yellow, Fibrous, Bound VINYL FLOORING	CHRY 20% VINYL 60% BIND 20% < 1% CELL
F2.2F	A624719	Heterogeneous, Yellow, Fibrous, Bound VINYL FLOORING	CHRY 20% VINYL 60% BIND 20% < 1% CELL
F2.2G	A624720A	Homogeneous, Brown, Fibrous, Bound FLOOR TILE	CHRY 10% VINYL 90% < 1% CELL
	A624720B	Heterogeneous, Black, Fibrous, Bound MASTIC	CHRY 2% MAST 88% CELL 10%
			CHRY 2%

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
F2.2H	A624721A	FLOOR TILE Homogeneous, Brown, Fibrous, Bound CHRY 10% VINYL	10% CHRY
			<1% CELL
A624721B		FLOOR TILE Heterogeneous, Black, Fibrous, Bound CHRY 2% MAST	2% CHRY
			10% CELL
F3.7A	A624722A	FLOOR TILE Homogeneous, Grey, Fibrous, Bound VINYL	ND
			<1% CELL
A624722B		FLOOR TILE Heterogeneous, Black, Fibrous, Bound CHRY 2% MAST	2% CHRY
			10% CELL
F3.7B	A624723A	FLOOR TILE Homogeneous, Grey, Fibrous, Bound VINYL	ND
			<1% CELL
A624723B		FLOOR TILE Heterogeneous, Black, Fibrous, Bound CHRY 2% MAST	2% CHRY
			10% CELL
F3.7C	A624724A	FLOOR TILE Homogeneous, Grey, Fibrous, Bound VINYL	ND
			<1% CELL

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
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A624724B Heterogeneous, MASTIC Black, Fibrous, Bound CHRY 2%
 88% CELL 10%

A624725A Homogeneous, FLOOR TILE Yellow, Green, Bound CHRY 2%
 98% CELL <1%

A624725B Heterogeneous, MASTIC Black, Fibrous, Bound CHRY 5%
 85% CELL 10%

F3.15A A624726A Homogeneous, FLOOR TILE Yellow, Green, Bound CHRY 2%
 98% CELL <1%

A624726B Heterogeneous, MASTIC Black, Fibrous, Bound CHRY 5%
 85% CELL 10%

F3.15C A624727A Homogeneous, FLOOR TILE Yellow, Green, Bound CHRY 2%
 98% CELL <1%

A624727B Heterogeneous, MASTIC Black, Fibrous, Bound CHRY 5%
 85% CELL 10%

CHRY 5%

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
F3.5A	A624728A	FLOOR TILE Homogeneous, Beige, Fibrous, Bound VINYL	100 % CELL < 1 %
ND	A624728B	MASTIC Heterogeneous, Tan, Fibrous, Bound MAST	90 % CELL 10 %
F3.5B	A624729A	FLOOR TILE Homogeneous, Beige, Fibrous, Bound VINYL	100 % CELL < 1 %
ND	A624729B	MASTIC Heterogeneous, Tan, Fibrous, Bound MAST	90 % CELL 10 %
F3.5C	A624730A	FLOOR TILE Homogeneous, Beige, Fibrous, Bound VINYL	100 % CELL < 1 %
ND	A624730B	MASTIC Heterogeneous, Tan, Fibrous, Bound MAST	90 % CELL 10 %
F3.3G	A624790A	FLOOR TILE Homogeneous, Black, Fibrous, Bound CHRY 10% VINYL	90 % CELL < 1 %
CHRY 10%			

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

Lab Code: A07-5233

Project: 07912-1.1

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	ASBESTOS %
F3.3H	A624791A	FLOOR TILE Homogeneous, Black, Fibrous, Bound CHRY 10% VINYL 90% CELL <1%	10% CHRY
F3.3I	A624792A	FLOOR TILE Homogeneous, Black, Fibrous, Bound CHRY 10% VINYL 90% CELL <1%	10% CHRY
	A624791B	MASTIC/FELT Homogeneous, Black, Fibrous, Bound CHRY 2% MAST 78% CELL 20%	2% CHRY
	A624792B	MASTIC/FELT Homogeneous, Black, Fibrous, Bound CHRY 2% MAST 78% CELL 20%	2% CHRY

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	NTRM = Non-Asbestiform Tremolite	PERL = Perlite
NANTH = Non-Asbestiform Anthophyllite	FBGY = Fibrous Gypsum	RUBR = Rubber
		VER = Vermiculite

CLIENT: WTR Consulting Engineers, LLC

PROJECT: 07912-1.1

CEI LAB CODE: A07-5233

stereoscopic 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.

It 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 where 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

Shirley M. Lee

REVIEWED BY

Tianbao Bai

Tianbao Bai, Ph.D.
Laboratory Director

End of Report