

BULLSEYE

Precision Analytical & Environmental Services
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ASBESTOS BULK ANALYSIS REPORT

LOG # 19074

Project # 2663

Analytical Results Summary

Number of Samples Submitted: 4

1% or Greater Asbestos: 2

<1% Asbestos: 1

Asbestos Contamination: 0

No Asbestos Detected: 3

Total Suspect Asbestos Materials: 6

November 16, 2019

Edge Analytical Laboratory
1100 NE Circle Blvd., Ste. 1113
Corvallis, OR 97330

RE: Analytical Results for 19-43504, RM #51

SAMPLE SUMMARY

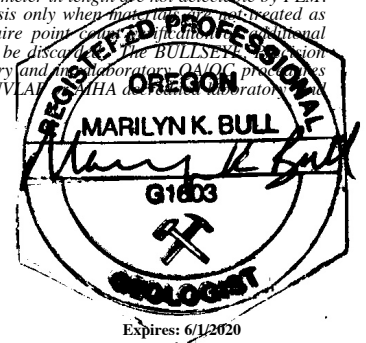
Lab #	Sample #	Source:	Field Location:	Result:
19074-1a	83948	Lt. Brown Floor Tile with White Streaks	Not Noted	Asbestos Containing Tile
19074-1b	83948	Black Tar Mastic	Not Noted	Asbestos Containing Mastic
19074-2	83949	Wallpaper	Not Noted	No Asbestos Detected
19074-3a	83950	Black Rubber Cove Base & Gold Mastic	Not Noted	No Asbestos Detected
19074-3b	83950	Paper and Tape Mud	Under Cove Base and Mastic	<1% Asbestos
19074-4	83951	1/2" Gypsum Board	Not Noted	No Asbestos Detected

All samples are analyzed by the method 40 CFR Part 763 Appendix E, Section 1 Polarized Light Microscopy (PLM), and where appropriate procedures outlined in the EPA 800/R-93-116 Method for the Determination of Asbestos in Bulk Building Materials (July 1993). A lower detection limit for this method of less than 1% asbestos is achievable by skilled technicians participating in rigorous QA/QC programs. This analytical method does not cover settled dust samples. Fibers less than 1 micrometer in length are not detectable by PLM. Point counting is required by NESHAPS (40 CFR Part 61) for quantitation of samples containing less than 10% asbestos by PLM analysis only when that material is designated as asbestos containing material (ACM). Samples reported by BULLSEYE as containing 1% or less asbestos by standard PLM may require point counting for additional quantification at an additional cost. Unless otherwise requested, samples will be retained for a period of 30 days, after which they will be discarded. The BULLSEYE Precision Analytical and Environmental Services laboratory participates in quality assurance and quality control programs including interlaboratory and intralaboratory QA/QC procedures recommended by the EPA but is not NVLAP accredited. Bullseye analysts are required to have a minimum of three years experience in a NVLAP or MHA accredited laboratory. Bullseye analysts are professional geologists trained in mineral identification. BULLSEYE is not liable for analytical data not reproduced in its entirety.

SAMPLED BY: Client

RECEIVED BY: Marilyn Bull November 14, 2019
BULLSEYE

ANALYZED BY: Marilyn Bull November 16, 2019
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Client: **Edge Analytical Laboratory**Location: **19-43504, RM #51**

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Log # **19074**

Sample #: 83948		Lt. Brown Floor Tile with White Streaks		Not Noted	
Lab #	19074-1a	Layer 1	Asbestos Containing Tile		Nonfriable
MATERIAL DESCRIPTION: Vinyl asbestos floor tile (VAT) containing mineral fillers that include 3% short/thin fibers, stubby fiber bundles, and platy grains of minerals in the serpentine family. Additional chrysotile beyond resolution by standard PLM analysis may be present.		ASBESTOS TYPE AND PERCENT: 		% OTHER FIBERS: Cellulose 1 % NONFIBROUS COMPONENTS: Fillers & binders 96	
Sample #: 83948		Black Tar Mastic		Not Noted	
Lab #	19074-1b	Layer 2	Asbestos Containing Mastic		Nonfriable
MATERIAL DESCRIPTION: Mastic on the under side of the floor tile is stripes of black tar containing 5% chrysotile fiber bundles, flat twisted cellulose fibers, and mineral grains.		ASBESTOS TYPE AND PERCENT: 		% OTHER FIBERS: Cellulose 5 % NONFIBROUS COMPONENTS: Tar, mineral grains 90	
Sample #: 83949		Wallpaper		Not Noted	
Lab #	19074-2	No Asbestos Detected			
MATERIAL DESCRIPTION: Light brown vinyl wallpaper contains embedded layer of woven strands of white cellulose fibers. White glue on the under side is attached to a tan paper layer composed of cellulose fibers.				% OTHER FIBERS: Cellulose (wallpaper) 55 Cellulose (mastic) 4 Cellulose (paper) ~100 % NONFIBROUS COMPONENTS: Binders (wallpaper) 45 Pigment, binder (mastic) 96	
Sample #: 83950		Black Rubber Cove Base & Gold Mastic		Not Noted	
Lab #	19074-3a	Layer 1	No Asbestos Detected		
MATERIAL DESCRIPTION: Black rubber cove base and gold brittle mastic both contain fine mineral grain fillers.				% OTHER FIBERS: % NONFIBROUS COMPONENTS: Fillers & binders (cove base) ~100 Binder, mineral (mastic) ~100	


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Client: **Edge Analytical Laboratory** Location: **19-43504, RM #51**

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Log # **19074**

Sample #: 83950		Paper and Tape Mud		Under Cove Base and Mastic	
Lab # 19074-3b		Layer 2		<1% Asbestos	
MATERIAL DESCRIPTION: Tan paper composed of cellulose fibers. A stripe of off-white mud attached to part of the paper is interpreted as tape mud. The mud contains mineral fillers that includes fine mica visible to the naked eye, and other mineral fillers that includes less than 1% thin wavy chrysotile fibers.		ASBESTOS TYPE AND PERCENT: Chrysotile <1% of tape mud		Friable if Disturbed	
				% OTHER FIBERS: Cellulose (paper) ~100 Cellulose (tape mud) 4-5	
				% NONFIBROUS COMPONENTS: Mineral fillers & binders (TM) 95	
Sample #: 83951		1/2" Gypsum Board		Not Noted	
Lab # 19074-4		No Asbestos Detected			
MATERIAL DESCRIPTION: Gypsum Board, 1/2" thick, containing colorless glass fibers and white to tan cellulose fibers in a gypsum plaster containing fine mineral grain fillers. The plaster is bound between tan cellulose paper layers. White paint on outer surface looks like				% OTHER FIBERS: Cellulose (plaster) 2 Glass Fiber (plaster) 3 Cellulose (paper) 4 Cellulose (paint) 4	
				% NONFIBROUS COMPONENTS: Gypsum & MF (plaster) 95 Pigments, fillers, binders (paint) 96	



Burlington, WA	Corporate Laboratory (M)	1625 S Third St	Burlington, WA 98221	361.755.2265 - 361.751.1488
Bellingham, WA	Microbiology (B)	85 Columbia Dr Ste 4	Bellingham, WA 98225	361.775.1272
Portland, OR	Microbiology/Cleanlab (C)	1150 SW Parker Ct Ste W	Wilsonville, OR 97156	503.582.1907
Corvallis, OR	Microbiology (M)	548 SW Third Street	Corvallis, OR 97331	541.753.4995

Subcontract Work Order

Laboratory Name: Edge Analytical - Corvallis
540 SW 3rd St
Corvallis, OR 97333
Project: RM #51

Date: 11/13/2019
Reference Number: 19-43504
Date Due: 11/18/2019

Lab Number: 83948	Sample Origin: OR	Matrix: Other	Date Sampled: 11/12/2019 00:00
Analyte Name		Units	PQL

Analytical Method EPA/600/R-93/116

CHRYSTILE ASBESTOS	%	1
OTHER ASBESTOS	%	1

Lab Number: 83949	Sample Origin: OR	Matrix: Other	Date Sampled: 11/12/2019 00:00
Analyte Name		Units	PQL

Analytical Method EPA/600/R-93/116

CHRYSTILE ASBESTOS	%	1
OTHER ASBESTOS	%	1

Lab Number: 83950	Sample Origin: OR	Matrix: Other	Date Sampled: 11/12/2019 00:00
Analyte Name		Units	PQL

Analytical Method EPA/600/R-93/116

CHRYSTILE ASBESTOS	%	1
OTHER ASBESTOS	%	1

Lab Number: 83951	Sample Origin: OR	Matrix: Other	Date Sampled: 11/12/2019 00:00
Analyte Name		Units	PQL

Analytical Method EPA/600/R-93/116

CHRYSTILE ASBESTOS	%	1
OTHER ASBESTOS	%	1

Please send results to: lab@edgeanalytical.com

Relinquished By _____

Date _____ Time _____

Received By _____

Date _____ Time _____

Maureen Bell

11/14/19

Log 19014