havonaenvironmental
environmental consulting and testing

Havona Environmental
P.O. Box 35848
Albuquerque, NM 87176

Phone: 505-232-9533
Fax: 505-212-0069

April 8, 2022

Floor Tech Contracting
5600 San Francisco Rd. NE, Suite E
Albuquerque, NM 87109

Attn: David Lujan

Re: Limited Asbestos Sampling
ABQ GHH (2nd Floor B)

INTRODUCTION

Havona Environmental, Inc. is pleased to present you with the results from the limited asbestos sampling conducted at the 5400 Gibson Boulevard SE in Albuquerque, New Mexico. Havona Environmental was authorized by David Lujan, President, to conduct the sampling. All work performed at this site was done by an EPA accredited AHERA asbestos inspector and in general accordance to all applicable regulations.

On April 1, 2022, Cissy Puma, an accredited AHERA asbestos inspector with Havona Environmental, conducted the sampling. A total of nine bulk samples were collected from the second floor. Samples were taken of sheet vinyl flooring and vinyl floor tile/mastic.

RESULTS

Of the materials sampled, one was identified to be asbestos containing materials (ACM). The material identified to be ACM is the vinyl floor tile black mastic.

The table below identifies the sample number, the material sampled, the location of the material, the material type, condition, friability, and the sample results.

Sample #	Material	Sample Location	Material Type	Condition	Friable/ Non-Friable	Asbestos Content
5400-1, 2, 3	Cream Sheet Vinyl Flooring w/Muli-Colored Spackles	Top Layer-2B38, 2B44, 2B22	Misc.	Fair/Damaged	F	None Detected
5400-4, 5, 6	12x12 Grey Spackles Vinyl Floor Tile/Yellow Mastic	Top Layer-2B27	Misc.	Significantly Damaged	F	Tile: None Detected Mastic: None Detected

5400-7, 8, 9	Cream Vinyl Floor Tile/Black Mastic	Bottom Layer-2B38, 2B44, 2B22 (Material is located throughout 2nd Floor)	Misc.	Fair	NF	Tile: None Detected Mastic: 5% Chrysotile

Vinyl Floor Tile Mastic

The asbestos containing vinyl floor tile mastic is a non-friable, miscellaneous material that was in fair condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category II, Non-Friable.

LABORATORY ANALYSIS

Samples of suspect ACM were analyzed by CA Labs of Baton Rouge, Louisiana. CA Labs is recognized as a participant in the Department of Commerce, National Institute of Standards and Technology's, National Laboratory Accreditation Program. (NVLAP # 200772-0)

Bulk samples were analyzed by Polarized Light Microscopy (PLM) method. Methodology: EPA 600/R-93/116.

ASBESTOS NESHAP TERMINOLOGY

Per the National Standards for Hazardous Air Pollutants (NESHAP), Subpart M-National Emission Standard for Asbestos Regulations, an "asbestos containing material" is defined as any material containing more than 1 % asbestos, as determined using the PLM method.

Materials reported with trace amounts of asbestos, equal to or less than 1%, are not regulated by EPA as ACM. OSHA identifies that it is the employer's responsibility in determining the applicability of 29CFR 1926.1101 in regards to employee exposure when materials containing equal to or less than 1% asbestos are disturbed.

Category I non-friable ACM—is asbestos containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 % asbestos.

Category II non-friable ACM—is any material, excluding Category I that contains more than 1 % asbestos and is non-friable.

Regulated Asbestos Containing Material (RACM)—is friable asbestos material, Category I ACM that has become friable, Category I that will be disturbed and become friable, and Category II ACM that has a possibility of becoming friable in the course of demolition or renovation operations

NESHAP REGULATIONS

Per NESHAP regulations, prior to the commencement of any demolition or renovation activity in the structure, all RACM must be removed from that structure if the construction activity would break, dislodge, or disturb these materials. NESHAP addresses not only friable ACM, but also those non-friable ACM's that could become friable as a result of demolition or renovation.

During renovation or demolition operations, materials may be uncovered that are different from those accessible for sampling during the survey. If suspect asbestos containing materials are found or uncovered during renovation or demolition, additional sampling should be performed to determine if the materials are asbestos containing materials.

LIMITATIONS

This report has been prepared to assist Floor Tech Contracting in assessing the building materials at the site specified above. This report only describes the conditions present at the time of the survey, in the areas surveyed. Other conditions may exist in areas that were not surveyed or inaccessible areas, such as, behind walls, above permanent ceilings, or below floors.

Havona Environmental will not be held responsible if additional contaminates are found at the property reference above at a later date, or if contaminates are located at various locations on the property not included in the scope of work. Our professional services have been performed in a manner consistent with the level of care and skill ordinarily exercised by members of the professional community currently practicing under similar conditions in the locality of the project. No warranty, expressed or implied, is made or intended.

Havona Environmental is not responsible for any independent conclusions or recommendations made by others based on the services provided on this project. Havona assumes no liability for any loss, injury, claim or damages arising directly or indirectly from any use or reliance on this report to the opinions expressed herein.

If you have any questions or need additional information, please contact Havona Environmental, Inc. at 505-232-9533. Thank you for allowing us to provide you with these services.

Respectfully Yours,

Cissy Puma, CEI
Environmental Consultant

Attachments:

Appendix A: Laboratory Results and Chain of Custody
Appendix B: Inspector`s Certification

APPENDIX A

CA Labs
Dedicated to Quality

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Attn: Cissy Puma
Customer Project: ABQ GHH 2nd Floor
Reference #: CBR22042694 Date: 4/6/2022

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

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NVLAP #200772-0
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CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project: ABQ GHH 2nd Floor **CA Labs Project #:** CBR22042694

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
				Black Mastic
5400-7	*7-3*	*Black Mastic*	***5% Chrysotile***	
5400-8	*8-3*	*Black Mastic*	***5% Chrysotile***	
5400-9	*9-3*	*Black Mastic*	***5% Chrysotile***	

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Phone # 505-232-9533
Fax # 505-256-8237

Customer Project:
ABQ GHH 2nd Floor

Turnaround Time: 3 day

CA Labs Project #:
CBR22042694

Date: 4/6/2022
Samples Received: 4/4/2022
Date Of Sampling: 4/1/2022
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
5400-1		1-1	*Gray Linoleum*	N	***None Detected***	5% fg 20% ce	75% qu, ma
		1-2	*Yellow Mastic*	Y	***None Detected***		100% qu, bi
5400-2		2-1	*Gray Linoleum*	N	***None Detected***	5% fg 20% ce	75% qu, ma
5400-3		3-1	*Gray Linoleum*	N	***None Detected***	5% fg 20% ce	75% qu, ma
5400-4		4-1	*Gray Floor Tile*	Y	***None Detected***		100% qu, ma, ca
	5	4-2	*Yellow Mastic*	Y			
5400-5		5-1	*Gray Floor Tile*	Y	***None Detected***		100% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Zo Andriampenomanana
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Cissy Puma
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Albuquerque, NM 87176

Phone # 505-232-9533
Fax # 505-256-8237

Customer Project: ABQ GHH 2nd Floor

Turnaround Time: 3 day

CA Labs Project #: CBR22042694

Date: 4/6/2022
Samples Received: 4/4/2022
Date Of Sampling: 4/1/2022
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
5400-6		6-1	*Gray Floor Tile*	Y	***None Detected***		100% qu, ma, ca
5400-7		7-1	*Yellow Mastic*	Y	***None Detected***		100% qu, bi
		7-2	*White Floor Tile*	Y	***None Detected***		100% qu, ma, ca
		7-3	*Black Mastic*	Y	***5% Chrysotile***		95% qu, bi
5400-8		8-1	*Yellow Mastic*	Y	***None Detected***		100% qu, bi
		8-2	*White Floor Tile*	Y	***None Detected***		100% qu, ma, ca
		8-3	*Black Mastic*	Y	***5% Chrysotile***		95% qu, bi

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Turnaround Time: 3 day

CA Labs Project #:
CBR22042694

Date: 4/6/2022
Samples Received: 4/4/2022
Date Of Sampling: 4/1/2022
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
5400-9		*9-1*	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
		9-2	*White Floor Tile*	*Y*	***None Detected***		100% qu, ma, ca
		9-3	*Black Mastic*	*Y*	***5% Chrysotile***		95% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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CBR2204 2694

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PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location: ABQ GHH 2nd Floor

Havona Client: Flor Tech

Havona Contact Information

Name: Cissy Puma **Phone:** 505-977-4938

Email: havonaenvironmental@yahoo.com

Page: 1 of 1

Sampled By: Cissy Puma or Scott Puma **Date Sampled:** 4-1-22

Sampler's Signature:

SAMPLE #	LOCATION	MATERIAL		COMMENT
5400-1	2B38	floor	S	please analyze all layers
-2	2B44		S	
-3	2B22		S	
-4	2B27		T	
-5	2B27		T	
-6	2B27		T	
-7	2B38		T/B	
-8	2B44		T/B	
-9	2B22		T/B	

Turn Around Time: 2-4 Hour | Same Day | 24 Hour | 2 Day | 3 Day | 5-10 Day

Relinquished By:	Date/Time:	Received By:	Date/Time:
	4-1-22 15:00 pm		4-4-2022 8:45
Relinquished By:	Date/Time:	Received By:	Date/Time:

APPENDIX B

Certificate of Attendance and Successful Completion

EPA-AHERA ASBESTOS BUILDING INSPECTOR REFRESHER

Certificate Number: ABIR-N2021-1103

Cissy Puma

This course has been approved by the Department of Industrial Relations, Occupational Safety and Health Administration of the State of Nevada
This course satisfies the accreditation requirements under section 206 of the Toxic Substances Control Act (TSCA).

Nelson Quezada, CE, CAC, CEM
Principal Instructor

OSHA

Training Director

Enviro-Con Integrated Solutions, Ltd.

3575 W Cheyenne Ave. Suite 101, North Las Vegas NV 89032 • Phone: 702.202.6200
5191 Lincoln Avenue, Cypress CA 90630 • Phone: 800.647.0227

Course Date: December 30, 2021

This Certificate is valid for one year from course date