



MATRIX

Health & Safety Consultants, L.L.C.

January 30, 2023

Graham County
196 Knight Street
Robbinsville, North Carolina 28771

Attention: Jason Marino

Subject: Sampling to Identify Asbestos-Containing Materials
66 Atoah Road
Robbinsville, NC 28771
Matrix Job Number: 230162

Dear Mr. Marino:

Matrix Health and Safety Consultants, L.L.C. (Matrix) is pleased to present this report of the survey to identify asbestos-containing materials at the referenced project site. This report presents known project information, survey procedures and survey results.

Matrix understands the residence is scheduled for renovations in the near future. In order to facilitate the renovations, Matrix performed a survey to determine the existence of asbestos-containing materials.

SURVEY PROCEDURES

The survey was performed on January 20, 2023, by Matrix's Inspector Britt Wester (North Carolina Asbestos Inspector No. 10847). The survey began with a walk-through of the residence observing accessible areas for the presence of suspect asbestos-containing materials. Both friable and nonfriable suspect asbestos-containing materials were considered during the course of the survey. Friable materials are those materials which can be pulverized or reduced to powder by hand pressure. A sampling strategy was determined and bulk samples of suspect ACM were obtained. Suspect ACM's were grouped based on material homogeneity. A homogeneous area is an area which contains materials that seem by texture, color and wear to be uniform and applied during the same general time period.

To determine the presence or absence of asbestos content in the suspect materials, samples were collected and transported to Scientific Analytical Institute, Inc. located in Greensboro, North Carolina under chain-of-custody documentation for laboratory analysis. The collected samples were placed into individual sample containers, sealed and a unique identification number was assigned to the sample container at the time of collection. The identification included the sample collection date and location. This information was logged on our Asbestos Bulk Sampling Record and submitted to the laboratory.

ANALYSIS PROCEDURES AND RESULTS

The collected asbestos samples were analyzed using Polarized Light Microscopy (PLM) in conjunction with dispersion staining techniques using EPA Method 600/M4-82-020 and EPA Method 600/R93/116 per 40 CFR 763.

The bulk laboratory analysis provided the asbestos content (positive or negative), percentage of asbestos, asbestos type and identification of other non-asbestos fibers. A material is considered to be asbestos-containing if greater than 1% asbestos is found in the material.

Asbestos-Containing Material Inspection Summary

SAMPLE NUMBER	MATERIAL	GENERAL LOCATION (And Estimated Quantity)	TYPE AND PERCENTAGE OF ASBESTOS PRESENT
66-1 66-2	1'x1' Ceiling Tiles	Throughout (1200 sqft)	None Detected
66-3 66-4	Brown Sheet Flooring	Living Room, Dining Room, and Hall (300 sqft)	30% Chrysotile
66-5 66-6	White Sheet Flooring	Kitchen – Top Layer (180 sqft)	None Detected
66-7 66-8	9"x9" White Floor Tile and Mastic	Bathroom (80 sqft)	None Detected
66-9 66-10	Yellow Sheet Flooring	Kitchen – Bottom Layer (180 sqft)	None Detected
66-11 66-12	Window Glazing	Exterior (100 lnft)	None Detected
66-13 66-14	Roofing Shingles	Side Roof (60 sqft)	None Detected

Analysis Method: PLM with Dispersion Staining
 NAD: No Asbestos Detected

The National Emissions Standard for Hazardous Air Pollutants (NESHAP) requires the removal of asbestos-containing materials prior to renovation or demolition activities. Matrix recommends asbestos removal be performed by a qualified asbestos abatement contractor, using North Carolina accredited personnel, in accordance with applicable federal and state regulations governing the removal of asbestos-containing materials.

OSHA regards materials with any amount of asbestos to be a potential exposure hazard if the material is disturbed. Therefore, work practices specified in the OSHA Standard (CFR 29 1926.1101) must be followed if the materials are disturbed, removed or demolished. Proper training, hazard communication and personal protection measures are also required as specified in the OSHA Standards.

This report summarizes Matrix’s evaluation of the conditions observed at the subject storage room during the course of the survey. Our findings are based upon our observations at the storage room and analyses of the samples obtained at the time of this survey. Additional asbestos-containing materials may exist (undetected) in other portions of the target rooms due to inaccessibility or due to an undetectable change in materials. Any conditions discovered which deviate from the data contained in this report should be presented to us for our evaluation.

Matrix appreciates the opportunity to have provided these services. We would be glad to discuss any of the results contained in this report, at your convenience. If there are any questions concerning this report or results, please contact us.

Sampling to Identify Asbestos-Containing Materials
66 Atoah Road
Robbinsville, North Carolina

January 30, 2023

Sincerely,

MATRIX HEALTH AND SAFETY CONSULTANTS, L.L.C.



C. Britt Wester, CIH
Principal

Attachments: Laboratory Analysis Report

Laboratory Analysis Report



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and
40 CFR, Part 763, Subpart E, App.E



Customer: Matrix Health & Safety Consultants
2900-B Yonkers Rd.
Raleigh, NC 27604

Attn: Britt Wester

Lab Order ID: 10014651

Analysis: PLM

Date Received: 01/24/2023

Date Reported: 01/24/2023

Project: 66 ATOAH Road

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
66-1	1x1 Ceiling tiles	None Detected	95% Cellulose	5% Other	Brown, White Fibrous Homogeneous
10014651_0001					Teased
66-2	1x1 Ceiling tiles	None Detected	95% Cellulose	5% Other	White, Brown Fibrous Homogeneous
10014651_0002					Teased
66-3	Brown sheet floor	30% Chrysotile		70% Other	Brown, Tan Fibrous Homogeneous
10014651_0003	unable to separate layers				Ashed, Teased
66-4	Brown sheet floor	30% Chrysotile		70% Other	Tan, Brown Fibrous Homogeneous
10014651_0004	unable to separate layers				Ashed, Teased
66-5 - A	White sheet floor	None Detected	30% Cellulose	70% Other	Tan, White Fibrous Homogeneous
10014651_0005	sheet flooring				Ashed, Teased
66-5 - B	White sheet floor	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10014651_0015	mastic				Dissolved
66-6 - A	White sheet floor	None Detected	30% Cellulose	70% Other	White, Tan Fibrous Homogeneous
10014651_0006	sheet flooring				Teased, Ashed
66-6 - B	White sheet floor	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10014651_0016	mastic				Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogenous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Katelyn Stewart (22)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and
40 CFR, Part 763, Subpart E, App.E



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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
66-7 - A	9x9 White F.T. & mastic	2% Chrysotile		98% Other	White Non-Fibrous Homogeneous
10014651_0007	tile				Crushed, Dissolved
66-7 - B	9x9 White F.T. & mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10014651_0017	mastic				Dissolved
66-8 - A	9x9 White F.T. & mastic	2% Chrysotile		98% Other	White Non-Fibrous Homogeneous
10014651_0008	tile				Crushed, Dissolved
66-8 - B	9x9 White F.T. & mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10014651_0018	mastic				Dissolved
66-9 - A	Yellow sheet flooring	None Detected	30% Cellulose	70% Other	Tan, Yellow Fibrous Homogeneous
10014651_0009	sheet flooring				Ashed, Teased
66-9 - B	Yellow sheet flooring	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10014651_0019	mastic				Dissolved
66-10 - A	Yellow sheet flooring	None Detected	30% Cellulose	70% Other	Tan, Yellow Fibrous Homogeneous
10014651_0010	sheet flooring				Ashed, Teased
66-10 - B	Yellow sheet flooring	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10014651_0020	mastic				Dissolved

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EPA Method: 600/R-93/116 and
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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
66-11	Window glazing	None Detected		100% Other	White, Gray Non-Fibrous Homogeneous
10014651_0011					Ashed
66-12	Window glazing	None Detected		100% Other	White, Gray Non-Fibrous Homogeneous
10014651_0012					Ashed
66-13 - A	Roofing shingles	None Detected	15% Fiber Glass	85% Other	Gray, Black Fibrous Homogeneous
10014651_0013	shingle 1				Dissolved, Crushed
66-13 - B	Roofing shingles	None Detected	20% Cellulose	80% Other	Green, Black Fibrous Homogeneous
10014651_0021	shingle 2				Dissolved, Crushed
66-14 - A	Roofing shingles	None Detected	15% Fiber Glass	85% Other	Black, Gray Fibrous Homogeneous
10014651_0014	shingle 1				Dissolved, Crushed
66-14 - B	Roofing shingles	None Detected	20% Cellulose	80% Other	Black, Green Fibrous Homogeneous
10014651_0022	shingle 2				Dissolved, Crushed

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