

ASBESTOS CHAIN OF CUSTODY

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DATE & TIME	RECEIVED BY	VIA	DATE & TIME	RELINQUISHED BY
	271953	271953	Date: 4/01/2022	SAMPLED BY: Name Christopher Cochran
Other		Project ID:	E-mail: Christopher-cochan@cherokee.org	Account # C162
Email Overenwooden@dwowe.org		52 Project Location: Tulsa	Cell Phone (918) 316-7452	Compact Christopher Cochran
QuanTEM Website	Project Name Billie Simpson	<u></u>	Phone: (918) 453-5009	Company: Cherokee Nation
Report Results (☑ one box)	Project Information Repo			Contact Information
Accept Reject		ENT - PLEASE P	LEGAL DOCUMENT - PLEASE PRINT LEGIBLY	LABORATORIES www.QuanTEM.com
For Lab Use Only		rive, Oklahoma City 05) 755-7272 • Fa	2033 Heritage Park Drive, Oklahoma City, OK 73120-7502 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058	
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		REQ	UESTED SER	REQUESTED SERVICES (Please 🖾 the Appropriate Boxes)	ropria	te Boxes)		
PLM		PLM		TEM		TEM		TURNAROUND TIME
Bulk Analysis (EPA 600/R-93/116)	(911/6	Vermiculite Attic Insulation		Air- AHERA		Bulk-Presence / Absence EPA600/R-93/116	3/116	Rush
400 Point Count	Ī	Orbor		Air- NIOSH 7402		Bulk-Quantitative (weight%)- Chatfield	ď	Same Day
1000 Point Count	E			Air-150 10312		Dust-Presence / Absence		√ 24 - Hour
Gravimetric Preparation		PCM		Drinking Water- EPA 100.2		Dust-Quantitative (fibers/sq.cm)- ASTM D5755	M D5755	3 - Day
Particle ID		NIOSH 7400		Waste Water- EPA 600/4-83-043		Other		5 - Day
No. Sample ID (10 Characters Max)	☑ To Be Analyzed	Color		Description		Volume / Area (as applicable)	Comments / Notes	s / Not
01-01-01-03	S	White		Wall Texture		Through Oute		
2 02-01	S	White	זז	Roll Sheet Flooring		Bath Room		
3 03-01	图	Brown	Top La	Top Layer Roll Sheet Flooring		Kitchen		
4 04-01	<u>S</u>	White	Bottom I	Bottom Layer Roll Sheet Flooring	g	Kitchen		
5 05-01	<u></u>	White		Plaster		Exterior		
6		dental						
7		***************************************						
80								
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SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup" Please Note - UPS and USPS are NOT available for Saturday Delivery



Polarized Light Microscopy Asbestos Analysis Report

Project Location: Tulsa

Project Number: N/A

QuanTEM Lab No. 345147

Account Number:

C162

Date Received:

04/04/2022

Received By:

Baylie Longstreth

Date Analyzed:

04/05/2022

Analyzed By: Methodology:

QuanTBM

Sample ID

Client

Sample ID

EPA/600/R-93/116

Cassie Sanborn

Composition

Color /

Description

Asbestos (%)

Project: Billie Simpson

Client: Cherokee Nation Environmental Programs

Chris Cochran PO Box 948

Tahlequah, OK 74464

Non-Asbestos

Fiber (%)

Non Fibrous

Por Ind Wisson

Cassie Sanborn, Laboratory Analyst

4/5/2022

Date of Report

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.



Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 345147

Account Number:

C162

Date Received:

04/04/2022

Received By:

Baylie Longstreth

Date Analyzed: Analyzed By:

007b

04/05/2022

Cassie Sanborn

Layered

Client: Cherokee Nation Environmental Programs

Chris Cochran

PO Box 948

Tahlequah, OK 74464

Project: Billie Simpson

Asbestos Not Present

Project Location: Tulsa

Methodology:	EPA/600	D/R-93/116	Project Nu	ation: Tulsa mber: N/A		
QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
006c		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
006d		Layered	Green Sheet Vinyl	Asbestos Not Present	Celfulose 30	CaCO3 Viny! Tar
006e		Layered	Brown Mastic	Asbestos Not Present	NA	Glue
007	05-01	Layered	Tan Plaster	Asbestos Not Present	NA	Sand Binder Paint
007a		Layered	Gray Plaster	Asbestos Not Present	Glass Fiber 5	Sand Binder

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Brown

Insulation

QuanTEM is a NVLAP accredited Testing PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested.

NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods.

This report may not be used to claim product endorsement by NVLAP or any agency of the US Government.

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Cellulose 80 Tar



Polarized Light Microscopy Asbestos Analysis Report

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Account Number:

C162

Date Received:

04/04/2022

Received By:

Baylie Longstreth

Date Analyzed: Analyzed By:

04/05/2022

Cassie Sanborn

Methodology:

EPA/600/R-93/116

Client: Cherokee Nation Environmental Programs

Chris Cochran PO Box 948

Tahlequah, OK 74464

Project: Billie Simpson

Project Location: Tulsa

Project Number: N/A

QuanTEM

Client

Color /

Sample ID	Sample 1D	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
004	02-01	Layered	Gray Sheet Vinyl	Asbestos Not Present	NA	CaCO3 Vinyl
004a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
005	03-01	Homogeneous	Brown Sheet Vinyl	Asbestos Not Present	Cellulose 20	CaCO3 Vinyl
006	04-01	Layered	Tan Sheet Vinyl	Asbestos Not Present	Cellulose 15 Glass Fiber 5	
006a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
006ь		Layered	Brown Sheet Vinyl	Asbestos Not Present	Cellulose 20	CaCO3 Vinyl

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 345147

Account Number:

C162

Date Received:

04/04/2022

Received By:

Baylie Longstreth

Date Analyzed: Analyzed By:

Methodology:

04/05/2022

Cassie Sanborn

EPA/600/R-93/116

Client: Cherokee Nation Environmental Programs

Chris Cochran

PO Box 948

Tahlequah, OK 74464

Project: Billie Simpson

Project Location: Tulsa

Project Number: N/A

	22 1 1 0 0 0 0	70/110	r toject radili	uci. N/A		
QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
001	01-01	Layered	White Wall Texture	Asbestos Not Present	NA	CaCO3 Paint
001a		Layered	Tan Joint Compound	Asbestos Present Chrysotile 3	NA	CaCO3
001b		Layered	White Sheetrock	Asbestos Not Present	Cellulose I	0 Gypsum
002	01-02	Layered	White Wall Texture	Asbestos Not Present	NA	CaCO3 Paint
002a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 1	0 Gypsum
003	01-03	Layered	White Wall Texture	Asbestos Not Present	NA	CaCO3 Paint
003a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 1	O Gypsum

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APPENDIX A.

PROJECT SCOPE OF WORK

V. CONCLUSIONS

Asbestos is not always an immediate hazard. Intact and undisturbed ACM does not pose a health risk. They may, however become a health hazard if they are damaged, disturbed, or deteriorate over time and release fibers into the air. There are no federal, state, or Tribal laws mandating asbestos removal. It is only when the material can no longer be maintained in good condition and/or airborne concentrations of asbestos are measured and found to be above a permissible exposure limit (PEL), or when the building is to be demolished or renovated, that removal may become necessary. Any renovation/demolition work which may impact these positive materials should be conducted in accordance with all applicable Federal, state, and local regulations.

Table 1.	Asbestos Containing Materia	ls			
Sample #	Material Description	Locations	Friability (Friable, NF Cat I NF Cat II)	Condition	Sample Results (% Asbestos)
01-01 01-02 01-03	White Wall Texture	Through Out	Friable	Damaged	3% Chrysotile
				Marie Marie de Chiano e e e e e e e e e e e e e e e e e e e	
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Table 2.	Non - Asbestos Containing I	Materials .	the state of the second state of the spiritual physical p	
Sample #	Material Description	Locations	Condition	Sample Results (% Asbestos)
02-01	White Roll Sheet Flooring/Mastic	Bath Room	Damaged	Not Present
03-01	Brown Roll Sheet Flooring Top Layer / Mastic	Kitchen	Damaged	Not Present
04-01	White Roll Sheet Flooring Bottom Layer / Mastic	Kitchen	Damaged	Not Present
05-01	White Plaster	Exterior	Damaged	Not Present

Thermal System Insulation(TSI) materials – thermal system insulation material applied to tanks, boiler, pipes or other structural component for an insulating purpose.

- May omit areas of fibrous glass, foam glass, rubber, and Styrofoam form sampling.
 Areas that have mastic on seams or outer jacketing will be sampled.
- At least three samples must be collected from each homogeneous area of TSI.
- Plus an additional sample from each patched area of less than 6 linear feet.
- Fittings require a sufficient amount to determine positive or negative nature.
- Inspector will first collect samples from damaged areas, exposed ends, or areas missing jacketing first.

Miscellaneous materials – all other material that are not thermal system insulation or surfacing materials. This includes gaskets, packings, joint wall compound, cementious asbestos materials, ceiling tiles resilient flooring materials, construction mastics, etc..

- May assume and document as such
- A sufficient amount of samples to determine negative or positive nature. A minimum or one per suspect homogeneous area.
- Collect samples from inconspicuous locations.
- Material such as cementious asbestos or vibration dampening cloths should not be sampled and will be assumed ACM unless instructed by client to collect these samples.

Bulk samples of suspect ACM were analyzed by Polarized Light Microscopy (PLM) in accordance with EPA Methods 600R-93/116. All samples were sent to a NVLAP accredited laboratory for analysis. Quantem Laboratories (NVLAP # 101959-0) in Oklahoma City, OK analyzed the samples. A copy of the full laboratory report and chain of custody can be found in Appendix B.

IV. SUMMARY OF FINDINGS

A total of 20 samples were analyzed from 5 homogeneous area due to multi-layers of material within some homogeneous sample areas. Photographs of all ACM can be found in Appendix C. All accessible and observable areas within the renovation area were sampled for ACM. Samples were not taken of suspect materials that may have placed the inspector at risk of injury (i.e. electrical panel boxes). Any suspect ACM that have not been tested and/or found positive for asbestos must be assumed ACM until they are analyzed. Upon review of laboratory analysis, the following asbestos containing materials can be found in Table 1. All suspect ACM samples that were analyzed and did not contain asbestos can be found in Table 2.

<u>Friable ACM</u> is defined by NESHAPs rules as any material containing more than 1% asbestos as determined by Polarized Light Microscopy (PLM), that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.

<u>Category I Non-friable ACM</u> is defined by NESHAPs rules as any asbestos-containing packings, gaskets, construction mastics, resilient floor covering (i.e. floor tiles, roll sheet flooring) or asphalt roofing products that contain more than 1% asbestos as determined by PLM.

<u>Category II Non-friable ACM</u> is defined by NESHAPs rules as any material, excluding Category I non-friable ACM, containing more than 1% asbestos as determined by PLM, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Typically, non-friable materials, such as transite (cementious products) and vinyl floor tiles are not regulated by the State of Oklahoma provided they do not become friable. General deterioration, machine grinding, drilling, sanding, and dry-buffing are all ways of causing non-friable materials to become classified as Regulated Asbestos Containing Materials (RACM). All friable materials are classified RACM. Please note that the following materials, even though classified as non-friable are fully regulated by Oklahoma Department of Labor for removal purposes as friable material: ceiling tiles, roll sheet flooring (linoleum), and joint wall compound when deemed friable

In addition to classification of suspect material into friable and non-friable materials, a determination of current condition was conducted as part of the physical assessment. The condition noted is the representative of the material at the time of inspection. Conditions of materials can change very quickly when disturbed. All suspect material was placed in one of the following categories of condition.

Significantly damaged: Material that is damaged, blistered, deteriorated, water stained over at least 10% of its total area.

<u>Damaged</u>: Material that is damaged, blistered, deteriorated, water stained less than 10% of its total area.

Good: Material that has no visible damage or deterioration.

Guidelines used for the number of samples collected per homogeneous area were determined using the Asbestos Hazard Emergency Response Act (AHERA) protocol promulgated in 40 CFR 763, Appendix E as follows:

Surfacing materials — material that is sprayed or troweled on wall, ceilings, or support columns for fireproofing, acoustical, or even decorative purpose.

- Less than 1000 ft2 Minimum 3 samples
- From 1000-5000 ft2 Minimum 5 samples
- Greater than 5000 ft2 Minimum 7 samples

I. Site Inspection/Description

Cherokee Nation Environmental Programs (CNEP) has conducted asbestos sampling for the presence of asbestos containing materials (ACM) for the following site:

Site Name: Billie Simpson

Address: 608 East 49th Place N Tulsa, OK 74126

Phone 918-713-2752

Lat/Long N36.22720, W095.98675

The sampling was performed to determine the presence of all ACM from within the affected parts of the structure for EPA's National Emissions of Hazardous Air Pollutants (NESHAP) compliance as well as OSHA worker protection.

The inspector responsible for this project was: Christopher Cochran ODOL, AHERA Inspector, License No: 401244

The sampling was conducted on March 31st, 2022 at the request of the Cherokee Nation Housing Rehabilitation Department.

The site is a single family home built in 1973. Sampling was limited to areas that would be affected by the project scope of work (Appendix A) provided by the rehabilitation department.

ACM was found at the last visit to the home.

II. BACKGROUND

The Oklahoma Department of Environmental Quality (ODEQ) has adopted EPA's NESHAP regulation under OAC252:100, 41-15 and has been delegated authority in the state of Oklahoma for its enforcement. Section 61.145(a) of Federal EPA regulation states that prior to commencement of the demolition or renovation of a facility a thorough inspection of the affected part or parts of a facility is required to determine the presence of all asbestos including Category I and Category II non-friable, and friable ACM. ACM is defined by EPA and OSHA as any material that contains greater than 1% asbestos.

III. FIELD PROCEDURES AND ANALYTICAL METHODS

During the on-site inspection, we visually assessed the physical characteristics of suspect asbestos-containing materials (SACM) based on homogeneous areas. Homogeneous areas are areas of asbestos similar in color, texture, and construction, date of application, and in general appearance. For purposes of renovation and demolition, homogeneous areas of SACM can be further classified according to NESHAPs rules by whether the material is friable, Category I non-friable, or Category II non-friable.

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- I. SITE INSPECTION/DESCRIPTION
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- V. CONCLUSIONS

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APPENDIX B: LABORATORY REPORT & CHAIN OF CUSTODY

APPENDIX C: SITE PHOTOGRAPHS

CHEROKEE NATION Environmental Programs



Asbestos Sampling Report

PARTICIPANT: Simpson, Billie

PREPARED BY: Chuce a DATE: 4/4/2022

<u>CHRISTOPHER COCHRAN ENVIRONMENTAL TECHNICIAN</u>

REQUESTED BY: CHEROKEE NATION HOUSING REHABILITATION (HUD) –
GEORGE HUBBARD