

**CHEROKEE NATION**  
**Environmental Programs**



**Asbestos Sampling Report**

**SITE:** CHOATE PROPERTY – PRIMARY RESIDENCE & KENNEL

**PREPARED BY:**

*Logan E. Girty*  
LOGAN GIRTY, ENVIRONMENTAL SPECIALIST II

**DATE:** 8.17.22

**REQUESTED BY:** CHEROKEE NATION FACILITIES MANAGEMENT DEPARTMENT –  
SALENA WYNN

## TABLE OF CONTENTS

- I. SITE INSPECTION/DESCRIPTION
- II. BACKGROUND
- III. FIELD PROCEDURES AND ANALYTICAL METHODS
- IV. SUMMARY OF FINDINGS
- V. CONCLUSIONS

APPENDIX A: PROJECT SCOPE OF WORK

APPENDIX B: LABORATORY REPORT & CHAIN OF CUSTODY

## 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:

Choate Property- Primary Residence & Kennel  
17746 S Muskogee Ave, Tahlequah, OK 74464  
Coordinates: 35.8552 / -94.9904

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:

Logan Girty ODOL, AHERA Inspector, License No: OK401597

The sampling was conducted on August 9, 2022 at the request of the Cherokee Nation Facilities Management Department.

The site is a single family residence built in 1958. Also on site is a dog kennel with an unknown build date. Sampling was limited to areas that would be affected by the project scope of work. (Appendix A)

**Regulated ACM was found at this site.** See Section IV for locations.

## 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.

Friable ACM 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.

Category I Non-friable ACM 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.

Category II Non-friable ACM 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 (cementitious 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.

Damaged: 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 ft<sup>2</sup> – Minimum 3 samples

- From 1000-5000 ft<sup>2</sup> – Minimum 5 samples
- Greater than 5000 ft<sup>2</sup> – Minimum 7 samples

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 from 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, cementitious 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 of one per suspect homogeneous area.
- Collect samples from inconspicuous locations.
- Material such as cementitious 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, LLC (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 36 samples were analyzed from 24 homogeneous areas 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.

**Table 1. Asbestos Containing Materials**

Sample #	Material Description	Locations	Friability (Friable, NF Cat I NF Cat II)	Condition	Sample Results (% Asbestos)
03-01 03-02 03-03	Drywall Texture	Living Rm	RACM Friable	Damaged	2% Chrysotile
11-01	Wall Tile	Bath 2	NF Cat II	Damaged	3% Chrysotile

**Table 2. Non – Asbestos Containing Materials**

Sample #	Material Description	Locations	Condition	Sample Results (% Asbestos)
01-01 01-02 01-03	Drywall	Office	Good	None Detected
02-01	Roll Sheet Vinyl Flooring	Office	Good	None Detected
04-01	Drywall Ceiling	Living Rm	Good	None Detected
05-01	Floor Tile	Living Rm	Good	None Detected
06-01	Fireplace Mortar	Living Rm	Good	None Detected
07-01	Wall Paper Adhesive	Bathroom 1	Good	None Detected
08-01	Roll Sheet Flooring	Bathroom 1	Good	None Detected
09-01	Ceiling Tile	Bedroom 1	Good	None Detected
10-01	Drywall Ceiling	Kitchen	Good	None Detected
12-01	Roll Sheet Flooring	Laundry	Good	None Detected
13-01	Roll Sheet Flooring	Bath 3	Good	None Detected
14-01	Drywall	Bath 3	Good	None Detected
15-01	Roll Sheet Flooring	East Entry	Good	None Detected
16-01 16-02 16-03	Drywall Ceiling Texture	Bedroom 2	Good	None Detected
17-01 17-02 17-03	Drywall Texture	Bedroom 3	Good	None Detected

18-01 18-02 18-03	Drywall Ceiling Texture	Bedroom 3	Good	None Detected
19-01 19-02 19-03	Drywall Ceiling Texture	Living Rm 2	Good	None Detected
20-01	Tile Backsplash	Living Rm 2	Good	None Detected
21-01	Backsplash	Kitchen	Good	None Detected
22-01	Shingle	Roof	Good	None Detected
23-01	Brick Mortar	Exterior	Good	None Detected
24-01	Block Wall Mortar	Kennel	Good	None Detected

## 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.

## **APPENDIX A.**

### **PROJECT SCOPE OF WORK**

Sampled site as full demolition.



**APPENDIX B.**  
LABORATORY RESULTS  
&  
CHAIN OF CUSTODY



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No:	349554	Client:	Cherokee Nation Environmental Programs
Account Number:	C162		Logan Girty
Date Received:	08/11/2022		PO Box 948
Received By:	Courtney Holman		Tahlequah, OK 74464
Date Analyzed:	08/15/2022	Project:	Choate Property - Bldg 3 + Kennel
Analyzed By:	Cassie Sanborn	Project Location:	Tahlequah
Methodology:	EPA/600/R-93/116	Project Number:	N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
001	01-01	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint
001a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10	Gypsum
002	01-02	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint
002a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10	Gypsum
003	01-03	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint
003a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10	Gypsum
004	02-01	Homogeneous	Gray Sheet Vinyl	Asbestos Not Present	Cellulose 10	CaCO3 Vinyl

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

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.

This report may not be reproduced except in full, without the written approval of the laboratory.



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 349554	Client: Cherokee Nation Environmental Programs
Account Number: C162	Logan Girty
Date Received: 08/11/2022	PO Box 948
Received By: Courtney Holman	Tahlequah, OK 74464
Date Analyzed: 08/15/2022	Project: Choate Property - Bldg 3 + Kennel
Analyzed By: Cassie Sanborn	Project Location: Tahlequah
Methodology: EPA/600/R-93/116	Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
005	03-01	Layered	Tan Texture	Asbestos Present Chrysotile 2	NA	CaCO3 Paint
005a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10	Gypsum
006	03-02	Layered	Tan Texture	Asbestos Present Chrysotile 2	NA	CaCO3 Paint
006a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10	Gypsum
007	03-03	Layered	Tan Texture	Asbestos Present Chrysotile 2	NA	CaCO3 Paint
007a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10	Gypsum

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

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.

This report may not be reproduced except in full, without the written approval of the laboratory.



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 349554	Client: Cherokee Nation Environmental Programs
Account Number: C162	Logan Girty
Date Received: 08/11/2022	PO Box 948
Received By: Courtney Holman	Tahlequah, OK 74464
Date Analyzed: 08/15/2022	Project: Choate Property - Bldg 3 + Kennel
Analyzed By: Cassie Sanborn	Project Location: Tahlequah
Methodology: EPA/600/R-93/116	Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
008	04-01	Layered	White Texture	Asbestos Not Present	NA	Paint
008a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10	Gypsum
009	05-01	Homogeneous	Brown Floor Tile	Asbestos Not Present	NA	Clay Sand
010	06-01	Homogeneous	Gray Mortar	Asbestos Not Present	NA	CaCO3 Sand
011	07-01	Homogeneous	White Wall Paper	Asbestos Not Present	Cellulose 30	Vinyl Binder
012	08-01	Layered	Brown Sheet Vinyl	Asbestos Not Present	Cellulose 15 Glass Fiber 5	CaCO3 Vinyl
012a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue

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

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.

This report may not be reproduced except in full, without the written approval of the laboratory.



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 349554	Client: Cherokee Nation Environmental Programs
Account Number: C162	Logan Girty
Date Received: 08/11/2022	PO Box 948
Received By: Courtney Holman	Tahlequah, OK 74464
Date Analyzed: 08/15/2022	Project: Choate Property - Bldg 3 + Kennel
Analyzed By: Cassie Sanborn	Project Location: Tahlequah
Methodology: EPA/600/R-93/116	Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
013	09-01	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 90	Paint
014	10-01	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose 10	Gypsum Paint
015	11-01	Layered	White Tile	Asbestos Not Present	NA	Clay Sand
015a		Layered	Beige Grout	Asbestos Not Present	NA	CaCO3 Sand
015b		Layered	Tan Mastic	Asbestos Not Present	NA	Glue CaCO3
015c		Layered	White Texture	Asbestos Present Chrysotile 3	NA	CaCO3

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

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.

This report may not be reproduced except in full, without the written approval of the laboratory.



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 349554	Client: Cherokee Nation Environmental Programs
Account Number: C162	Logan Girty
Date Received: 08/11/2022	PO Box 948
Received By: Courtney Holman	Tahlequah, OK 74464
Date Analyzed: 08/15/2022	Project: Choate Property - Bldg 3 + Kennel
Analyzed By: Cassie Sanborn	Project Location: Tahlequah
Methodology: EPA/600/R-93/116	Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
016	12-01	Layered	Gray Sheet Vinyl	Asbestos Not Present	Cellulose 15 Glass Fiber 5	CaCO3 5 Vinyl
016a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
017	13-01	Layered	White Sheet Vinyl	Asbestos Not Present	Cellulose 15 Glass Fiber 5	CaCO3 5 Vinyl
017a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
018	14-01	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose 10	Gypsum Paint
019	15-01	Homogeneous	Brown Sheet Vinyl	Asbestos Not Present	Glass Fiber 5	CaCO3 Foam Vinyl
020	16-01	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint

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

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.

This report may not be reproduced except in full, without the written approval of the laboratory.



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 349554	Client: Cherokee Nation Environmental Programs
Account Number: C162	Logan Girty
Date Received: 08/11/2022	PO Box 948
Received By: Courtney Holman	Tahlequah, OK 74464
Date Analyzed: 08/15/2022	Project: Choate Property - Bldg 3 + Kennel
Analyzed By: Cassie Sanborn	Project Location: Tahlequah
Methodology: EPA/600/R-93/116	Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
020a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10	Gypsum
021	16-02	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint
021a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10	Gypsum
022	16-03	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint
022a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10	Gypsum
023	17-01	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint

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

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.

This report may not be reproduced except in full, without the written approval of the laboratory.



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 349554	Client: Cherokee Nation Environmental Programs
Account Number: C162	Logan Girty
Date Received: 08/11/2022	PO Box 948
Received By: Courtney Holman	Tahlequah, OK 74464
Date Analyzed: 08/15/2022	Project: Choate Property - Bldg 3 + Kennel
Analyzed By: Cassie Sanborn	Project Location: Tahlequah
Methodology: EPA/600/R-93/116	Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
023a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10 Glass Fiber 2	Gypsum
024	17-02	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint
024a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10 Glass Fiber 2	Gypsum
025	17-03	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint
025a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10 Glass Fiber 2	Gypsum
026	18-01	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint
026a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10 Glass Fiber 2	Gypsum

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

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.

This report may not be reproduced except in full, without the written approval of the laboratory.





2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 349554	Client: Cherokee Nation Environmental Programs
Account Number: C162	Logan Girty
Date Received: 08/11/2022	PO Box 948
Received By: Courtney Holman	Tahlequah, OK 74464
Date Analyzed: 08/15/2022	Project: Choate Property - Bldg 3 + Kennel
Analyzed By: Cassie Sanborn	Project Location: Tahlequah
Methodology: EPA/600/R-93/116	Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
027	18-02	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint
027a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10 Glass Fiber 2	Gypsum
028	18-03	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint
028a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10	Gypsum
029	19-01	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint
029a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10	Gypsum

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

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.

This report may not be reproduced except in full, without the written approval of the laboratory.



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 349554	Client: Cherokee Nation Environmental Programs
Account Number: C162	Logan Girty
Date Received: 08/11/2022	PO Box 948
Received By: Courtney Holman	Tahlequah, OK 74464
Date Analyzed: 08/15/2022	Project: Choate Property - Bldg 3 + Kennel
Analyzed By: Cassie Sanborn	Project Location: Tahlequah
Methodology: EPA/600/R-93/116	Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
030	19-02	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint
030a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10 Glass Fiber 2	Gypsum
031	19-03	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint
031a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10	Gypsum
032	20-01	Layered	Clear Tile	Asbestos Not Present	NA	Glass
032a		Layered	Beige Grout	Asbestos Not Present	NA	CaCO3 Sand
032b		Layered	White Mastic	Asbestos Not Present	NA	Glue CaCO3

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

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.

This report may not be reproduced except in full, without the written approval of the laboratory.



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 349554	Client: Cherokee Nation Environmental Programs
Account Number: C162	Logan Girty
Date Received: 08/11/2022	PO Box 948
Received By: Courtney Holman	Tahlequah, OK 74464
Date Analyzed: 08/15/2022	Project: Choate Property - Bldg 3 + Kennel
Analyzed By: Cassie Sanborn	Project Location: Tahlequah
Methodology: EPA/600/R-93/116	Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
032c		Layered	White Texture	Asbestos Not Present	NA	CaCO3
033	21-01	Layered	Brown Mastic	Asbestos Not Present	NA	Glue
033a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 10	Gypsum
034	22-01	Layered	Brown Shingle	Asbestos Not Present	Glass Fiber 25	Tar Sand
034a		Layered	Black Tar	Asbestos Not Present	NA	Tar
034b		Layered	Black Shingle	Asbestos Not Present	Glass Fiber 25	Tar Sand

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

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.

This report may not be reproduced except in full, without the written approval of the laboratory.



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 349554	Client: Cherokee Nation Environmental Programs
Account Number: C162	Logan Girty
Date Received: 08/11/2022	PO Box 948
Received By: Courtney Holman	Tahlequah, OK 74464
Date Analyzed: 08/15/2022	Project: Choate Property - Bldg 3 + Kennel
Analyzed By: Cassie Sanborn	Project Location: Tahlequah
Methodology: EPA/600/R-93/116	Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
035	23-01	Homogeneous	Gray Mortar	Asbestos Not Present	NA	CaCO3 Sand
036	24-01	Homogeneous	Gray Mortar	Asbestos Not Present	NA	CaCO3 Sand Paint

*Cassie Sanborn*

Cassie Sanborn, Laboratory Analyst

8/15/2022

Date of Report

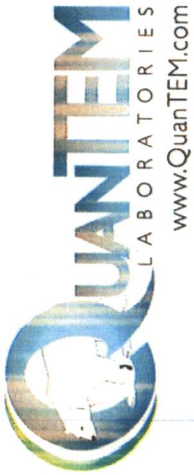
Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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.

This report may not be reproduced except in full, without the written approval of the laboratory.



# ASBESTOS CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502  
 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

## LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

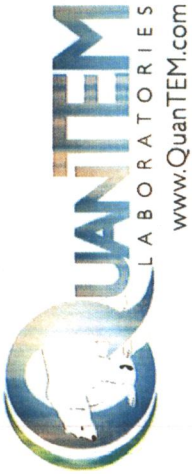
<b>Contact Information</b> Company: Cherokee Nation Environmental Programs Contact: Logan Girty Account #: C 162 Phone: (918) 453-6140 Cell Phone: (918) 772-8346 E-mail: logan-girty@cherokee.org Date: 8/9/2022		<b>Project Information</b> Project Name: Choate Property - Bldg 3 + Kennel Project Location: Tahlequah Project ID: P.O. Number: 272279	
<b>SAMPLED BY:</b> Name: Logan Girty Signature: <i>Logan Girty</i>		<b>RECEIVED BY:</b> Signature: <i>Paula M. Ho</i> DATE & TIME: 8/11/22	

<b>RELINQUISHED BY:</b> Signature: <i>Logan Girty</i>		<b>RECEIVED BY:</b> Signature: <i>Paula M. Ho</i> DATE & TIME: 8/11/22	
--	--	--	--

### REQUESTED SERVICES (Please check the Appropriate Boxes)

	PLM	PLM	TEM		TEM	TURNAROUND TIME
			Air- AHRA	Air- NIOSH 7402		
<input checked="" type="checkbox"/>	Bulk Analysis (EPA 600/R-93/116)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rush
<input type="checkbox"/>	400 Point Count	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same Day
<input type="checkbox"/>	1000 Point Count	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24 - Hour
<input type="checkbox"/>	Gravimetric Preparation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3 - Day
<input type="checkbox"/>	Particle ID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5 - Day

No.	Sample ID (10 Characters Max)	To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
1	01-01	<input checked="" type="checkbox"/>	Green	Drywall		Office
2	01-02	<input checked="" type="checkbox"/>	Green	Drywall		Office
3	01-03	<input checked="" type="checkbox"/>	Green	Drywall		Office
4	02-01	<input checked="" type="checkbox"/>	Gray	Roll Sheet Vinyl Flooring		Office
5	03-01	<input checked="" type="checkbox"/>	Green	Drywall Texture		Living Rm
6	03-02	<input checked="" type="checkbox"/>	Green	Drywall Texture		Living Rm
7	03-03	<input checked="" type="checkbox"/>	Green	Drywall Texture		Living Rm
8	04-01	<input checked="" type="checkbox"/>	White	Drywall Ceiling		Living Rm
9	05-01	<input checked="" type="checkbox"/>	Brown	Floor Tile		Living Rm
10	06-01	<input checked="" type="checkbox"/>	Gray	Fireplace Mortar		Living Rm



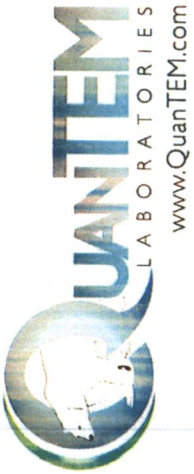
# ASBESTOS CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502  
 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

**LEGAL DOCUMENT - PLEASE PRINT LEGIBLY**

For Lab Use Only
Lab No. <u>319554</u>
<input checked="" type="radio"/> Accept <input type="radio"/> Reject

Project Information		Project Name:	Project Location:			
Company: Cherokee Nation Environmental Programs		Choate Property - Bldg 3 + Kennel	Tahlequah			
No.	Sample ID (10 Characters Max)	To Be Analyzed <input checked="" type="checkbox"/>	Color	Description	Volume / Area (as applicable)	Comments / Notes
11	07-01	<input checked="" type="checkbox"/>	White	Wall Paper		Bathroom 1
12	08-01	<input checked="" type="checkbox"/>	Brown	Roll Sheet Flooring		Bathroom 1
13	09-01	<input checked="" type="checkbox"/>	White	Ceiling Tile		Bedroom 1
14	10-01	<input checked="" type="checkbox"/>	White	Drywall Ceiling		Kitchen
15	11-01	<input checked="" type="checkbox"/>	White	Wall Tile		Bath 2
16	12-01	<input checked="" type="checkbox"/>	Gray	Roll Sheet Flooring		Laundry
17	13-01	<input checked="" type="checkbox"/>	White	Roll Sheet Flooring		Bath 3
18	14-01	<input checked="" type="checkbox"/>	White	Drywall		Bath 3
19	15-01	<input checked="" type="checkbox"/>	Brown	Roll Sheet Floor		E. Entry
20	16-01	<input checked="" type="checkbox"/>	White	Drywall Ceiling Texture		Bedroom 2
21	16-02	<input checked="" type="checkbox"/>	White	Drywall Ceiling Texture		Bedroom 2
22	16-03	<input checked="" type="checkbox"/>	White	Drywall Ceiling Texture		Bedroom 2
23	17-01	<input checked="" type="checkbox"/>	White	Drywall Texture		Bed 3
24	17-02	<input checked="" type="checkbox"/>	White	Drywall Texture		Bed 3
25	17-03	<input checked="" type="checkbox"/>	White	Drywall Texture		Bed 3
26	18-01	<input checked="" type="checkbox"/>	White	Drywall Ceiling Texture		Bed 3
27	18-02	<input checked="" type="checkbox"/>	White	Drywall Ceiling Texture		Bed 3
28	18-03	<input checked="" type="checkbox"/>	White	Drywall Ceiling Texture		Bed 3
29	19-01	<input checked="" type="checkbox"/>	White	Drywall Ceiling Texture		Living Rm 2
30	19-02	<input checked="" type="checkbox"/>	White	Drywall Ceiling Texture		Living Rm 2



# ASBESTOS CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502  
 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

**LEGAL DOCUMENT - PLEASE PRINT LEGIBLY**

For Lab Use Only  
 Lab No. 349554  
 Accept  Reject

Project Information		Project Name:	Project Location:			
Company: Cherokee Nation Environmental Programs		Choate Property - Bldg 3 + Kennel	Tahlequah			
No.	Sample ID (10 Characters Max)	To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
31	19-03	<input checked="" type="checkbox"/>	White	Drywall Ceiling Texture		Living Rm 2
32	20-01	<input checked="" type="checkbox"/>	Brown	Tile Backsplash		Living Rm 2
33	21-01	<input checked="" type="checkbox"/>	Tan	Backsplash		Kitchen
34	22-01	<input checked="" type="checkbox"/>	Black	Shingle		Roof
35	23-01	<input checked="" type="checkbox"/>	Gray	Brick Mortar		Exterior
36	24-01	<input checked="" type="checkbox"/>	Gray	Block Wall Mortar		Kennel
37		<input type="checkbox"/>				
38		<input type="checkbox"/>				
39		<input type="checkbox"/>				
40		<input type="checkbox"/>				
41		<input type="checkbox"/>				
42		<input type="checkbox"/>				
43		<input type="checkbox"/>				
44		<input type="checkbox"/>				
45		<input type="checkbox"/>				
46		<input type="checkbox"/>				
47		<input type="checkbox"/>				
48		<input type="checkbox"/>				
49		<input type="checkbox"/>				
50		<input type="checkbox"/>				