

# Asbestos Sampling Report

For the dwelling located at:

Willie Vann  
Rt. #1 Box 852  
Watts, OK 74964  
918-723-5960  
Built In: 1970's

Prepared For:

**Cherokee Nation Housing Rehabilitation**  
Using ODEQ, EPA and CN Work Practice Standards  
Established in 40 CFR 763.85, 40 CFR 763.86, and 40 CFR 763.87

**Lab Analysis by Quantem Labs**  
NVLAP 101959-0  
2033 Heritage Park Drive  
Oklahoma City, OK 73120  
(405) 755-7272

By:

**Jeremy Freise**  
**EPA Accredited Asbestos Inspector**  
Expiration: March 1, 2011

**Cherokee Nation Environmental Programs**  
P.O. Box 948  
Tahlequah, OK 74465  
(918) 453-5370

Signature: \_\_\_\_\_

*Jeremy J. Freise*

Date: 12-13-10

## Section I – Introduction

This report is an abbreviated National Emission Standard for Hazardous Air Pollutants (NESHAP) inspection based on the scope of work determined by Cherokee Nation Housing Rehabilitation Department. Although not necessary for this type of report, the AHERA guidelines for asbestos sampling are followed. See Attachment A for scope of work to be performed.

'Friable' is used to describe asbestos that can be reduced to dust by hand pressure. 'Non-friable' means asbestos that is too hard to be reduced to dust by hand. Typical 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 or can be classified as Regulated Asbestos Containing Materials (RACM). Machine grinding, drilling, sanding, and dry-buffing are all ways of causing non-friable materials to become RACM.

In addition, asbestos is not always an immediate hazard. 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 the 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.

### Definitions:

Friable Asbestos Containing Material (ACM) is defined by NESHAPS rules as any material containing more than one percent (1%) asbestos as determined by Polarized Light Microscopy 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 or asphalt roofing products that contain more than one percent (1%) asbestos as determined by Polarized Light Microscopy. Resilient floor covering includes floor tiles and roll sheet flooring.

Category II Non-friable ACM is defined by NESHAPS rules as any material, excluding Category I non-friable ACM, containing more than one percent (1%) asbestos as determined by Polarized Light Microscopy, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

In addition to classification of suspect materials into friable and non-friable materials, a determination of current condition was conducted as part of the physical assessment. Please note that the classification of condition by the inspector is representative of the material as viewed only during the on-site inspection. The condition of said materials can change very quickly when disturbed by contact, air erosion, or vibration damage after said inspection has been completed. All suspect material was placed in one of the following three categories of condition:

Significantly damaged: Material damaged, blistered, deteriorated, water stained over at least one tenth (10%) of its total area.

Damaged: Material is damaged blistered, deteriorated, water stained less than one tenth (10%) of its total area.



Good: No visible damage or deterioration.

### **Sampling Protocol:**

The number of samples collected per suspect homogeneous area was determined using the AHERA protocol promulgated in 40 CFR 763, Appendix E as follows:

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

- Less than 1000 ft<sup>2</sup> = Minimum 3
- From 1000-5000 ft<sup>2</sup> = Minimum 5
- Greater than 5000 ft<sup>2</sup> = Minimum 7

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 materials 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.
- Materials such as cementitious asbestos or vibration dampening cloths should not be sampled and will be assumed asbestos containing materials unless instructed by client to collect these samples.

## **SECTION II – INSPECTION DESCRIPTION**

### **Participant Information:**

Willie Vann  
Rt. #1 Box 852  
Watts, OK 74964  
918-723-5960  
Built In: 1970's

**Date of Sampling:**

12/8/2010

**Sampled by:**

Jeremy Freise

**Section III – Sampling Results**

Samples were collected from each homogeneous area according to protocol listed in section I. All samples were analyzed using Polarized Light Microscopy (PLM) in accordance with EPA Method 600R-93/116. If the presence of asbestos was confirmed, the percentage of asbestos containing material versus non-asbestos containing material was visually estimated by a combination of Polarized Light and Stereo Microscopy.

See Attachment B for photographs of homogeneous areas containing asbestos.

See Attachment C for Chain of Custody.

See Attachment D for Laboratory Results.

See Attachment E for Summary of Results.

**Attachment A.**  
Scope of Work from Cherokee Nation Housing Rehabilitation

Asbestos Sampling Sheet

Date: 12-8-10

Project: WILLIE VANN

Inspector: JJF

Sample #	Description	Location	Mat. Type	Friability	Condition
01-01	VINYL SHEET FLOOR	KITCHEN	MISC	NON	G
02-01	VINYL SHEET FLOOR	LIVING ROOM	MISC	NON	G
03-01	CEILING TEXTURE	KITCHEN	SUR	FRI	G
03-02	CEILING TEXTURE	BATHROOM	SUR	FRI	G
03-03	CEILING TEXTURE	BEDROOM #1	SUR	FRI	G
04-01	VINYL SHEET FLOOR	BATHROOM	MISC	NON	G
05-01	WALL TEXTURE	BEDROOM #1	SUR	FRI	G
05-02	WALL TEXTURE	BEDROOM #2	SUR	FRI	G
05-03	WALL TEXTURE	BEDROOM #3	SUR	FRI	G
06-01	INSULATION	ATTIC	MISC	NON	G
07-01	SIDING	EXTERIOR	MISC	NON	G
08-01	SHINGLES	ROOF	MISC	NON	G

N 36.14054  
W 94.74526



## Environmental Review Request

Environmental Review X Lead-Based Paint X Asbestos X only

Requesting Program: Housing Rehab

Program Contact Name/Phone: Shannon Noisey/453-5685

Funding Source (NAHASDA, ICDBG, RHED, etc.): NAHASDA

Date of Request: 11/22/10

Name of Participant: Willie Vann

Participant Phone Number: (918) 723-5960

Specific Project Description (*rehab, replacement, demolition, emergency- if emergency please detail the work*) Rehab

Does the Project include any ground disturbing activities? Yes

Is there a structure currently located on site? Yes

Age of the Structure: Built in 1970's

Physical Address/Legal Description of site: Rt. # 1 Box 852, Watts, OK 74964  
SE SE NE & S2 NE SE less the east 132 feet thereof of Section 9, Township 19  
North, Range 24 East, Adair County, Oklahoma

Driving Directions/Site Distinctions (color of house, mobile home, etc.):

Starting from the Cherokee Nation Complex. Left go 15 turn right on 62 to 51E.  
turn on hwy 10 go 10 miles turn on Chewey Road turn left at store go 3 miles turn  
left on dirt road home on right in field.

Send to:

Wayne Isaacs

Cherokee Nation

Environmental Programs

[wisaacs@cherokee.org](mailto:wisaacs@cherokee.org)

Office: 918-453-6359

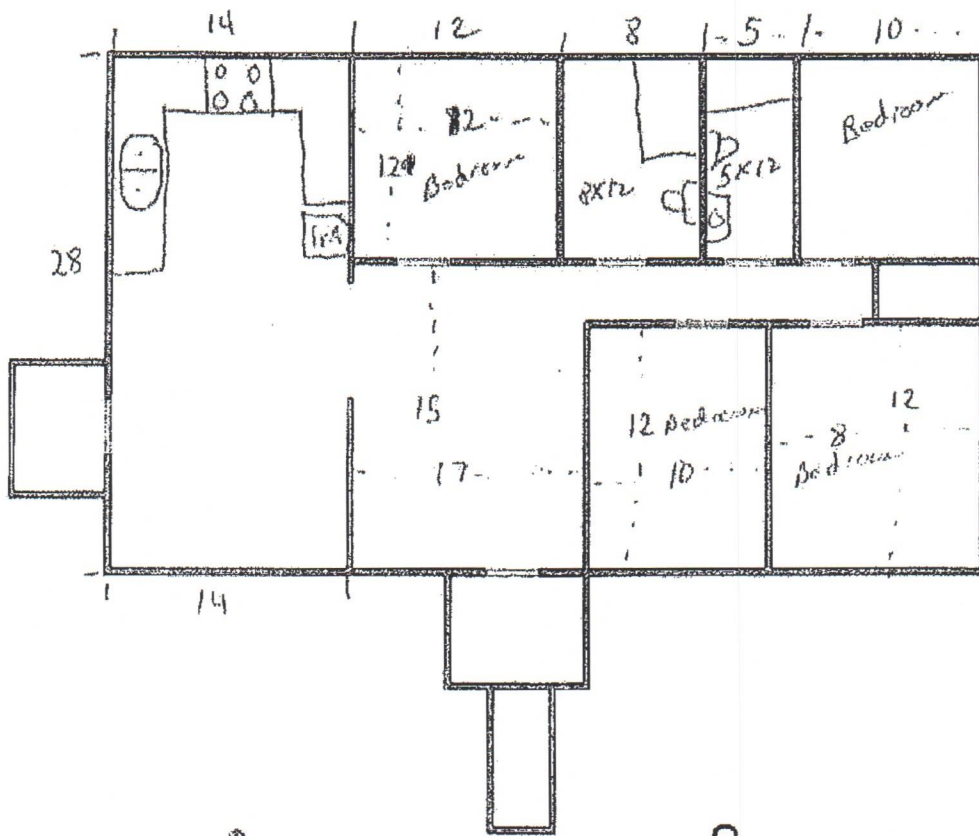
Fax: 918-453-2904

# Willie Vann

N

W

E



S



**Attachment C.**  
Chain of Custody



**Asbestos Chain-of-Custody**  
 2033 Heritage Park Drive, Oklahoma City, OK 73120-7502  
 (800) 822-1850 (405) 755-7272 Fax: (405) 755-2058  
 www.quantem.com

Page 1 of 1  
 Lab No. 190186  
 Accepted [Signature]  
 Refused

Company Name: CHEROKEE NATION Project Name: WILLIE VANN  
 Project Location: WATTS, OKLA Project Number: \_\_\_\_\_  
 Acct. #: B

Sample Number	To Be Analyzed	Color / Description	Volume / Area (if applicable)	Comments
01-01		VINYL SHEET FLOOR		KITCHEN
02-01		VINYL SHEET FLOOR		LIVING ROOM
03-01		CEILING TEXTURE		KITCHEN
03-02		CEILING TEXTURE		BATHROOM
04-01		CEILING TEXTURE		BEDROOM #1
05-01		VINYL SHEET FLOOR		BATHROOM
05-02		WALL TEXTURE		BEDROOM #1
05-03		WALL TEXTURE		BEDROOM #2
06-01		WALL TEXTURE		BEDROOM #3
07-01		INSULATION		ATTIC
08-01		SIDING		EXTERIOR
		SHINGLES		ROOF

**LEGAL DOCUMENT**  
 Please Print Legibly

**PLM**  
 Bulk Analysis per applicable  
 402 Point Count  
 1000 Point Count  
 Gravimetric/Proportional Pan  
 Other

**PCM**  
 MOGH 7470  
 Other

**TEM**  
 AF - ASERA  
 AF - NOBEX 7402  
 Bulk - Qualitative [Yes / No] - EPA 8200A-D30118  
 Bulk - Qualitative [Sample #] - CHAMPAC  
 Dux - Qualitative [Yes / No]  
 Dux - Qualitative [Elemental] - ASTM D2775  
 Drinking Water - EPA 1003  
 Wastes Water - EPA 8004.1B-04  
 Other

**TURNAROUND TIME**  
 Rush  
 Same Day  
 24 Hour  
 3-Day  
 5-Day

**CONTACT INFORMATION**  
 Name: JEREMY J. FREISE  
 Phone: 918-453-5094  
 Report Results Via (CHOOSE ONE):  
 FAX  
 QUANTUM WebSite  
 E-Mail

1:30 PM  
 12-8-10  
 12/10/10 10:00  
 10/14/10  
 [Signature] [Signature] [Signature]  
 [Signature] [Signature] [Signature]

Saturday FedEx Shipping - CALL TO SCHEDULE  
 Use this address for Saturday FedEx only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517  
 Mark Package HOLD FOR SATURDAY PICKUP

**Attachment D.**  
Laboratory Results





2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

**Polarized Light Microscopy Asbestos Analysis Report**

Quantem Lab No. 190186	Client: Cherokee Nation
Account Number: B191	P.O. Box 948
	Tahlequah, OK 74465
Date Received: 12/10/2010	
Received By: Sherrie Leftwich	
Date Analyzed: 12/13/2010	Project: Willie Vann
Analyzed By: Sandy Baker	Project Location: Watts, OK
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	Homogeneous	Beige Sheet Vinyl	Asbestos Not Present	Cellulose 15 Glass Fiber 5	Vinyl CaCO3
002	02-01	Homogeneous	Beige Sheet Vinyl	Asbestos Not Present	Cellulose 15 Glass Fiber 3 Synthetic 3	Vinyl CaCO3
003	03-01	Layered	White Ceiling Texture	Asbestos Not Present	Cellulose	<1 CaCO3 Binder
003a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 30 Glass Fiber 3	Gypsum CaCO3
004	03-02	Layered	White Ceiling Texture	Asbestos Not Present	Cellulose	<1 CaCO3 Binder
004a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 33 Glass Fiber 3	Gypsum CaCO3

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

Quantem is a NVLAP accredited TEM and 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 other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.



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### Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 190186  
 Account Number: B191  
 Date Received: 12/10/2010  
 Received By: Sherrie Leftwich  
 Date Analyzed: 12/13/2010  
 Analyzed By: Sandy Baker  
 Methodology: EPA/600/R-93/116

Client: Cherokee Nation  
 P.O. Box 948  
 Tahlequah, OK 74465

Project: Willie Vann  
 Project Location: Watts, OK  
 Project Number: N/A

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
005	03-03	Layered	White Ceiling Texture	Asbestos Not Present	Cellulose <1	CaCO3 Binder
005a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 30 Glass Fiber 2	Gypsum CaCO3
006	04-01	Homogeneous	Tan Sheet Vinyl	Asbestos Not Present	Cellulose 15 Glass Fiber 5	Vinyl CaCO3
007	05-01	Layered	White Texture	Asbestos Not Present	Cellulose <1	CaCO3 Binder
007a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 35 Glass Fiber 3	Gypsum CaCO3
008	05-02	Layered	White Texture	Asbestos Present Chrysotile <1	Cellulose <1	CaCO3 Binder

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2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 190186	Client: Cherokee Nation
Account Number: B191	P.O. Box 948
	Tahlequah, OK. 74465
Date Received: 12/10/2010	
Received By: Sherrie Leftwich	
Date Analyzed: 12/13/2010	Project: Willie Vann
Analyzed By: Sandy Baker	Project Location: Watts, OK
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
008a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 30 Glass Fiber 4	Gypsum CaCO3
009	05-03	Layered	White Texture	Asbestos Present Chrysotile <1	Cellulose <1	CaCO3 Binder
009a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 35 Glass Fiber 3	Gypsum CaCO3
010	06-01	Homogeneous	Brown Insulation	Asbestos Not Present	Cellulose 99	Binder
011	07-01	Homogeneous	Brown Siding	Asbestos Not Present	Cellulose 95	Binder
012	08-01	Layered	White Shingle	Asbestos Not Present	Cellulose 30	Quartz Tar

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. 190186  
Account Number: B191  
Date Received: 12/10/2010  
Received By: Sherrie Leftwich  
Date Analyzed: 12/13/2010  
Analyzed By: Sandy Baker  
Methodology: EPA/600/R-93/116

Client: Cherokee Nation  
P.O. Box 948  
Tahlequah, OK 74465

Project: Willie Vann  
Project Location: Watts, OK  
Project Number: N/A

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
012a		Layered	Black Shingle	Asbestos Not Present	Cellulose 30	Quartz Tar

Sandy Baker, Analyst

12/13/2010  
Date of Report

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

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**Attachment E.**  
Summary of Results

Homogeneous Area	Layered or Not Layered	Sample #	Material Description (size, color, material etc.)	Friable or Non Friable Cat. I or II	Condition	Sample Location	Asbestos Content	NESHAP Classification
1	Not Layered	01-01	Beige Vinyl Sheet Floor	Non-Friable	G	Kitchen	N/A	N/A
2	Not Layered	02-01	Beige Vinyl Sheet Floor	Non-Friable	G	Living Room	N/A	N/A
3	Layered	03-01	White Ceiling Texture/White Sheetrock	Friable	G	Kitchen	N/A, N/A	N/A, N/A
3	Layered	03-02	White Ceiling Texture/White Sheetrock	Friable	G	Bathroom	N/A, N/A	N/A, N/A
3	Layered	03-03	White Ceiling Texture/White Sheetrock	Friable	G	Bedroom #1	N/A, N/A	N/A, N/A
4	Not Layered	04-01	Tan Vinyl Sheet Floor	Non-Friable	G	Bathroom	N/A	N/A
5	Layered	05-01	White Wall Texture/White Sheetrock	Friable	G	Bedroom #1	N/A, N/A	N/A, N/A
5	Layered	05-02	White Wall Texture/White Sheetrock	Friable	G	Bedroom #2	Less Than 1%, N/A	N/A, N/A
5	Layered	05-03	White Wall Texture/White Sheetrock	Friable	G	Bedroom #3	Less Than 1%, N/A	N/A, N/A
6	Not Layered	06-01	Brown Insulation	Non-Friable	G	Attic	N/A	N/A
7	Not Layered	07-01	Brown Siding	Non-Friable	G	Exterior	N/A	N/A
8	Layered	08-01	White Shingle/Black Shingle	Non-Friable	G	Roof	N/A	N/A

Cat. I = Category I non-friable materials  
 Cat. II = Category II non friable materials  
 RACM = Regulated asbestos containing materials  
 D = Damaged condition  
 G = Good Condition  
 S = Significantly damaged condition  
 N/A = Not applicable  
 Assumed = Assumed asbestos containing material