# CHEROKEE NATION Environmental Programs



### Asbestos Sampling Report

PARTICIPANT: MCCARTER DOUGLAS

PREPARED BY:

BRAD ASBILL, ENVIRONMENTAL SPECIALIST I

\_DATE: 8-22-12

REQUESTED BY: CHEROKEE NATION HOUSING REHABILITATION (HUD) -

GEORGE HUBBARD

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#### 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: Douglas McCarter

Address: 17565 W. Robin Drive, Tahlednah, OK 74464

Phone: (918) 457-9362

Lat/Long: 35.97584 N, 94.98233 W

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:

Brad Asbill

ODOL, AHERA Inspector, License No: OK159939

The sampling was conducted on August 15, 2012 at the request of the Cherokee Nation Housing Rehabilitation Department.

The site is a single family home built in 1978. 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 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.

<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 trowoled 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

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. EMSL Analytical Inc. (NVLAP # 200742-0) in Saint Louis, MO 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 22 samples were analyzed from 9 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 bust 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.

Sample it	Material Description	Locations	Friability (Friable, NF Cat I NF Cat II)	Condition	Sample Results (% Asbestos)
01-04	Wall/Ceiling Texture	Bathroom	Friable	Good	40%
01-05	Wall/Ceiling Texture	Bathroom	Frinble	Good	4%
01-06	Wall/Ceiling Texture	Bathroom	Friable	Good	4%
01-07	Joint Compound	Living Room Wall	NF Cat II	Good	· 2%
				***************************************	

. . .

Sample #	Material Description	Locations	Friability (Friable, NF Cat I NF Cat II)	Condition	Sample Results (% Ashestos)	
01-01	Paint					
01-01	Joint Compound	Bathroom	NF Cat II	Damaged	None Detected	
01-01	Paper					
01-02	Joint Compound	Bathroom	NF Cat II	Damaged	None Detected	
01-02	Paper	Datificont			THORE DESCRICE	
01-03	Paint		NF Cat II		None Detected	
01-03	Joint Compound	Bathroom	THE CALL	Damaged		
01-03	Caulk					
01-04	Paint	Bathroom	NF Cat II	Good	None Detected	
01-04	Paper	Datie 0511				
01-05	Paint	Bathroom	NF Cat II	Good	None Detected	
01-06	Paint	Bathroom	NF Cat II	Good	None Detected	
01-07	Paint	The B	NF Cat II	( - 1	N' 12-44	
01-07	Drywall	Living Room		Good	None Detector	
01-08	Paint	I Indianal annual and I annual	NF Cat II	Good	None Detecte	
01-08	Drywall	Utility/Laundry Room	Nr Cit II	Cloon	None Detecte	
01-09	Insulation	Attic	NF Cat II	Good	None Detecte	

#### 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.



#### EMSL Analytical, Inc.

3029 S. Jefferson, Saint Louis, MO 63118

(314) 577-0150 / (314) 776-0313

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EMSL Order CustomerID:

391207402 CHER25

CustomerPO:

114068

ProjectID:

Attn: Brad Asbill

Cherokee Nation Environmental Programs 206 East Allen Road Tahlequah, OK 74464

Phone:

(918) 453-5370

Fax:

Received:

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Analysis Date:

8/21/2012

Callected:

Project

Doug McCartor

#### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
ample D	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
01-01-Paint		Various			100% Non-fibrous (other	r) None Detected
391207492-0001		Non-Fibrous Heterogeneous				
01-01-Joint		White			100% Non-fibrous (other	r) None Detected
Compound		Non-Fibrous				
391207402-0001A		Heterogeneous				
01-01-Paper		Tan	100%	Cettulosa	0% Non-fibrous (othe	n) None Detected
391207402-06015		Fibrous Homogeneous				
01-02-Joint		White			96% Non-fibrous (other	nr) None Detected
Compound		Non-Fibrous			4% Mica	
381297402-0067	***	Heterogeneous				
01-02-Paper		Tan	100%	Cellulose	0% Non-fibrous (other	er) None Detected
3017974G2-00C2A		Fibrous Homogeneous				
01-03-Paint		Various		19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100% Non-fibrous (other	er) None Detected
391297402-0003		Non-Fibrous Heterogeneous				
01-03-Joint		Cream	AND THE PROPERTY OF THE PROPER		96% Non-fibrous (other	er) None Detected
Compound		Non-Fibrous			4% Mica	
391207402-00034		Haterogeneous				

Sue Ferrano (22)

Jeff Siria, Laboratory Manager or other approved signatory

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#### EMSL Analytical, Inc.

3029 S. Jefferson, Saint Louis, MO 63118 Phone/Fax: (314) 577-0150 / (314) 770-3313

sa allouislab@emsl.com

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**Brad Asbill** 

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Phone

(918) 453-5370

8/21/2012

Fax

Received:

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Analysis Date:

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Project: Doug McCarter

#### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Ast	estos	<u>Asbestos</u>	
Description	Appearance	%	Fibrous	% Non-Fibrous	% Type	
	White			100% Non-fibrous (other)	None Detected	
	Non-Fibrous Heterogeneous					
	Tan	100%	Celtulose	0% Non-fibrous (other)	None Detected	
	Fibrous Homogeneous					
	Cream			100% Non-fibrous (other)	None Detected	
	Non-Fibrous Heterogeneous					
	White		The second secon	96% Non-fibrous (other)	4% Chrysotlie	
	Non-Fibrous Heterogeneous					
Manual Control of the	Tan	100%	Cellulose	0% Non-fibraus (other)	None Detected	
	Fibrous Homogeneous					
	Cream			100% Non-fibrous (other)	None Detected	
	Non-Fibrous Heterogeneous					
	White			95% Non-fibrous (other)	4% Chrysotlie	
	Non-Fibrous Heterogeneous					
The second secon	Creem			100% Non-fibrous (other)	None Detected	
	Non-Fibrous Heterogeneous					
	Description	White Non-Fibrous Heterogeneous  Tan Fibrous Homogeneous  Cream Non-Fibrous Heterogeneous  White Non-Fibrous Heterogeneous  Tan Fibrous Heterogeneous  Cream Non-Fibrous Homogeneous  White Non-Fibrous Heterogeneous  Cream Non-Fibrous Heterogeneous  White Non-Fibrous Heterogeneous  Cream Non-Fibrous Heterogeneous	White Non-Fibrous Heterogeneous  Tan 100% Fibrous Hornogeneous  Cream Non-Fibrous Heterogeneous  White Non-Fibrous Heterogeneous  Tan 100% Fibrous Hornogeneous  Cream Non-Fibrous Hornogeneous  Cream Non-Fibrous Heterogeneous  White Non-Fibrous Heterogeneous  Cream Non-Fibrous Heterogeneous  Cream Non-Fibrous Heterogeneous  Cream Non-Fibrous	Description Appearance % Fibrous  White Non-Fibrous Heterogeneous  Tan 100% Cellulose Fibrous Horriogeneous  Cream Non-Fibrous Heterogeneous  White Non-Fibrous Heterogeneous  Tan 100% Cellulose Fibrous Heterogeneous  Cream Non-Fibrous Heterogeneous  Cream Non-Fibrous Heterogeneous  White Non-Fibrous Heterogeneous  Cream Non-Fibrous Heterogeneous  Cream Non-Fibrous Heterogeneous  Cream Non-Fibrous Heterogeneous  Cream Non-Fibrous	White Non-Fibrous (other) Non-Fibrous Helerogeneous  Tan 100% Cellulose 0% Non-fibrous (other) Fibrous Homogeneous  Cream 100% Non-fibrous (other) Non-Fibrous Helerogeneous  White 98% Non-fibrous (other) Non-Fibrous Helerogeneous  Tan 100% Cellulose 0% Non-fibrous (other) Fibrous Homogeneous  Cream 100% Non-fibrous (other) Non-Fibrous Helerogeneous  White 98% Non-fibrous (other) Non-Fibrous Helerogeneous  White 98% Non-fibrous (other) Non-Fibrous Helerogeneous  Cream 100% Non-fibrous (other) Non-Fibrous Helerogeneous  Cream 100% Non-fibrous (other) Non-Fibrous Helerogeneous	

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Sue Ferrario (22)

Jeff Siria, Laboratory Manager or other approved signatory

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#### EMSL Analytical, Inc.

3029 S. Jefferson, Saint Louis, MO 83118 Phone/Fax: (314) 577-01507 (314) 778-3313

sairticustab@ems\_cont

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			Non-Asbastos			Asbestos	
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	%	Туре
01-06-Texture		Cream		, , , , , , , , , , , , , , , , , , , ,	96% Non-fibrous (other)	4%	Chrysotlle
391207402-0006A		Non-Fibrous Heterogeneous					
01-07-Paint		Cream			100% Non-fibrous (other)		None Detected
391207402-0007		Non-Fibrous Helerogeneous					
01-07-Joint		White			94% Non-fibrous (other)	2%	Chrysotile
Compound		Non-Fibrous			4% Mica		
391207402-0607A		Heterogeneous					
01-07-Drywall		Various	89%	Celluiose	11% Non-fibrous (other)		None Detected
391207402 00078		Fibrous Heterogeneous					
01-08-Paint	440.00	White		Vi deriver de l'assertif de l'assertif	100% Non-fibrous (other)		None Detected
39120/402-0608		Non-Fibrous Heterogeneous					
01-08-Drywall		Various	39%	Cellulose	61% Non-librous (other)		None Detected
391207402-0008A		Non-Fibrous Heterogeneous					
01-09		Various	98%	Cellulose	2% Non-fibrous (other)		None Detected
391207402-0609		Fibrous Heterogeneous					

Analyst(s)

Sue Ferrario (22)

Jeff Siria, Laboratory Manager or other approved signatory

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Page 1 of 2 Pages

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Page 2 of 2



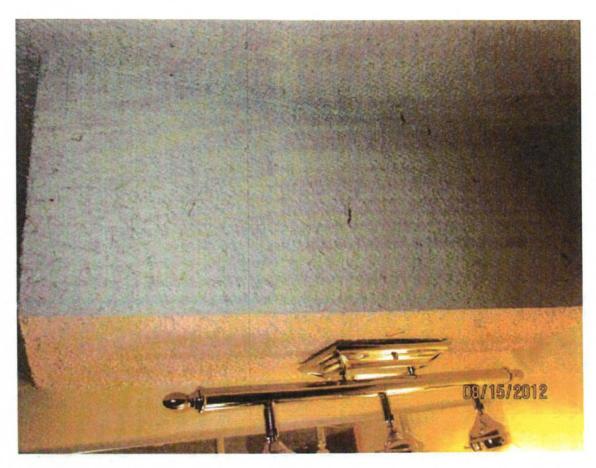
## Asbestos Lab Services Chain of Custody EMSL Order Number(Lab Use Only):

St Line, Ido 3025-3020 \$ Jefferson \$t Lines MO 63/18 PHONE (314)-577-00-00 FAX (704)-778-03-3

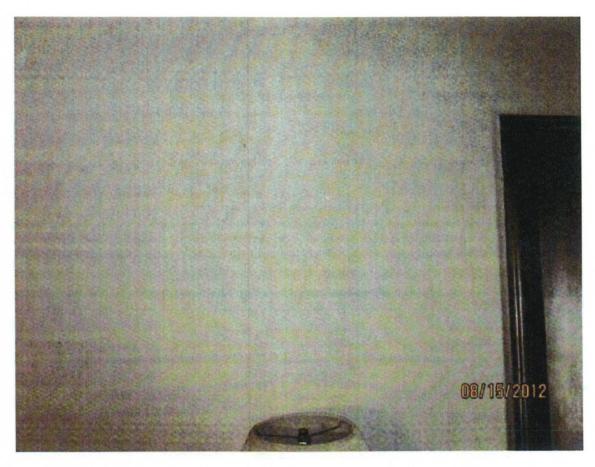
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled		
01-09	Insulation		8-15-12	1:000	
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Bathroom Wall/Ceiling Texture (4%) Chrysotile Asbestos



Living Room Joint Compound (2%) Chrysotile Asbestos