Lead-Based Paint Risk Assessment Report

For the Dwelling Located at:

Billie Simpson 608 E. 49th Pl. North Tulsa, OK 74126 36.227236 N, 95.986647 W Built in: 1960

Prepared For:

Cherokee Nation Housing Rehabilitation Using ODEQ, EPA and CN Work Practice Standards Established in 40 CFR 745-227

> Lab Analysis by Quantem Laboratories AIHA-ELLAP 101352 2033 Heritage Park Dr. Oklahoma City, OK (405) 775-7272

> > By:

C. Nick Clark, Certified Risk Assessor

P.O. Box 948 Tahlequah, OK 74465 (918) 316-7451 Heuresis Pb200i SN: 2312

Signature: C. Mich Clark

Date: 2-9-21

OK Firm No.: CN Firm No.: OKFIRM11198

CNFIRM00001

OK License No.: OKRASR 3910

CN License No.: CNRASR00036

Table of Contents

Part I: Identifying Information

Identity of dwelling(s) covered by report, identity of property(ies).

- 1. Risk Assessor, Name of Certificate (or License) and Number and State issuing certificate/license.
- 2. Property Owner Name, Address, and Phone Number.
- 3. Date of Report, Date of Environmental Sampling.

Part II: Completed Management, Maintenance, and Environmental Results Forms and Analyses

4. List of Location and Type of Identified Lead Hazards including and indication of which hazards are priorities (this summary should be suitable for use as notification to residents).

5. Optional Management Information (Form 5.6) (not required if all dwellings were sampled)

6. Maintenance/Paint Condition Information (Form 5.2 or 5.7)

7. Building Condition (Form 5.1)

8. Brief Narrative Description of Dwelling Selection Process (not required if all dwellings were sampled).

9. Analysis of Previous XRF Testing Report (if applicable).

10. Deteriorated Paint Sampling Results (Form 5.3 or 5.3a)

11. Dust Sampling Results (Form 5.4 or 5.4a)

12. Soil Sampling Results (Form 5.5)

13. Other Sampling Results (if applicable)

Part III: Lead Hazard Control Plan

14. Lead-Based Paint Policy Statement (not applicable for homeowners).

15. Name of individual in Charge of Lead-Based Paint Hazard Control Program.

16. Recommended Changes to Work Order System and Property Management (optional, not applicable for homeowners or property owner without work order systems).

17. Acceptable Interim Control Options for This Property and Estimated Costs.

18. Acceptable Abatement Options for This Property.

19. Reevaluation Schedule (if applicable).

20. Interim Control/Abatement to Be Implemented in This Property.

21. A Training Plan for Managers, Maintenance Supervisors, and Workers (this should include named individuals), if applicable.

22. Method of Resident Notification of Results of Risk Assessment and Lead Hazard Control Program (not applicable for homeowners). Note: This section should include a discussion of how residents are to be educated about lead poisoning, *before* the risk assessment results are released.

23. Signature (Risk Assessor) and Date.

24. All laboratory raw data.

Part IV: Appendix

Part I: Identifying Information

Billie Simpson 608 E. 49th Pl. North 918-713-2752 36.227236 N, -95.986647 W Built in: 1960

Part II: Results

List of location and type of identified lead hazards:

Deteriorated Lead-Based Paint (Hazards):

	0.2 Positive	3 1/28/2021	14:50:17 House	Living Room	Door	Casing	Wcod2	A2	Pealing
	0.3 Positive	3 1/28/2021	15:29:24 House	Garage (Inte	Door		Wcod8		
	0.2 Positive	5 1/28/2021	15:34:02 Exterior	House	Door	Delication of the second	Wcod1		
	0.3 Positive	2 1/28/2021	15:34:53 Exterior	House	Door	Casing	Wood2		
	0.3 Positive	3 1/28/2021	15:41:44 Exterior	House	Roomi	Wall	Wood7		
1.2 mg/cm2	0.2 Positive	5 1/28/2021	15:52:35 Exterior	Garage (Exte	Door		Wcod2		

Lead in Dust Hazards:

- · Living Room Window Trough
- Kitchen Floor
- Kitchen Wir dow Trough

Lead in Soil Hazards:

Dripline

A few other painted surfaces that have not been tested for lead are in "poor" condition and should be repainted within the next year before further deterioration occurs. However, these surfaces are not considered to be immediate "hazards," using criteria in the 2012 HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing. Those surfaces are:

NA

There has not been any previous lead-based paint testing at this dwelling, although a lead-based paint inspection of all painted surfaces is recommended so that potential lead problems can be monitored before they become hazardous.

Soil lead levels were all below 400 ug/g. Current EPA and HUD Guidance for soil is 400ug/g fcr bare play areas and 1,200 ug/g for other areas. Using these criteria, soil is not a hazard at this property.

The owner has decided to select the following hazard control measures, which are all acceptable besed on HUD's Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing:

Reevaluation: Standard Reevaluation Schedule 3 contained in the HUD Guidelines does apply to this property, since one of the rooms had a dust lead level greater that the standard. Therefore, the dwelling should be reevaluated in ______1/28/2022______ (12 months from now). If no lead-based paint hazards are identified at this time, no further reevaluations are needed. However, since lead-based paint may be present in the dwelling, the

owner should monitor the condition of all painted surfaces at least annually or whenever other information indicates a potential problem.

Building Condition Form

CONDITION YES						
Roof Missing Parts of Surfaces (tiles, boards, etc.)	X					
Roof Has Holes or Large Cracks	Х					
Gutter or Downspcuts Broken	Х					
Chimney Masonry cracked, bricks loose or missing, obviously out of plumb		Х				
Exterior or interior walls have obvious large cracks or holes, requiring more than routine painting	Х					
Exterior siding has missing boards or shingles	X					
Water stains on interior walls or ceilings	Х					
Plaster walls deteriorated		X				
Two or more windows or doors broken, missing, or boarded up		Х				
Porch or steps have major elements broken, missing, or boarded up		X				
Foundation has major cracks, missing material, structural leans, or visibly unsound		X				
Total	6	5				

If the "Yes" column has 2 or more checks, the dwelling is considered to be in poor condition for the purposes of a risk assessment. However, specific conditions and extenuating circumstances should be considered before determining final condition of the building and the appropriateness of a lead hazard screen.

Notes:

Overall, the home is in poor condition.

- 8. Dwelling Selection Process N/A
- 9. Analysis of Previous XRF Testing Report N/A

Field Sampling Form for Deteriorated Paint

Name of Risk Assessor	Vick Clark				argument of the second			
Name of Property Owner	Billie Simpson							
Property Address _608 E. 49th	Pl. North							
Sampling Protocol single	family		DOC MARKET PROPERTY COLUMN SHARE AN					
Target Dwelling Criteria (Che	eck All That Apply	·)						
Code Violation	ns							
X Judged to be in	Poor Condition							
Presence of 2 of	or More Children b	etween Ages of	6 Months	and 6 Y	ears			
Serves as Day-								
	ared for Reoccupar	ncy						
Random Samp			F SN 231	2				
None of the ab	ove							
10 1.4 mg/cm2 0.2 Positive 61 1.4 mg/cm2 0.3 Positive 67 1 mg/cm2 0.3 Positive 68 1.5 mg/cm2 0.3 Positive 76 1.4 mg/cm2 0.3 Positive	5 1/28/2021	14:50:17 House 15:29:24 House 15:34:02 Exterior 15:34:53 Exterior 15:41:44 Exterior	House		Casing Casing Wall	Wooc2 Wooc3 Wooc2 Wooc7	A2 B2 A1 A2 D1	Peeling Peeling Cracking Cracking Peeling
81 1.2 mg/cm2 0.2 Positive		15:52:35 Exterior			- 1 ·	Wood2	A3	Peeling
Sample <u>all</u> layers of paint, not	just deteriorated p	paint layers						
Total Number of Samples Thi	s Page 6							
Page1of	1							
Date of Sample Collection	1/28/2021							

Field Sampling

Form for Dust

Sample Number	Room (Record Name of Room Used by the Owner or Resident)	Surface Type	Is Surface Smooth and Cleanable?	Dimension ¹ of Sample Area (inches x inches)	Area (in²)	Result of Lab Analysis (ug/ft²)
01	Living Room	Floor	Yes	12x12	144	<5.0
02	Living Room	WS	Yes	2.50 x 21.25	53.13	<14
03	Living Room	WT	Yes	3.50 x 21	73.50	2200
04	Bedroom 3	Floor	Yes	12x12	144	<5.0
05	Bedroom 3	WS	Yes	2.5 x 35	87.50	93
06	Kitchen	Floor	Yes	12x12	144	16
07	Kitchen	WS	Yes	2.50 x 39	97.50	70
08	Kitchen	WT	Yes	3 x 39	117	2900

Measure to the nearest 1/16 inch

Total Number of Samples This Page8	
Page_1_ of1	
Date of Sample Collection <u>1/28/2021</u> Date shipped to la	b <u>1/28/2021</u>
Shipped by <u>C. Nick Clark</u> Received by EMSL Analytical Staf (signature)	f <u>C. Nick Clark</u> (signature)
HUD Standards: 10 ug/ft² (floors), 100 ug/ft² (interior window sills),	400 ug/ft² (window troughs)

Field Sampling Form For Soil

(Composite Sampling Only)

Name of Risk Assesso	or <u>C. Nick Clark</u>		
Name of Property Ow	ner Billie Simpson		
Property Address 60	08 E. 49 th Pl. North Tul	lsa, Ok 74126	
SAMPLE NO.	LOCATION	BARE OR COVERED	LAB RESULTS ug/g
09	Drip Line	Bare	190
Total Number of Samp	ples This Page	1	
		Date Shipped	l to lab <u>12/22/</u> 2020
Shipped by <u>C. Nick</u> (signate	Clark Receive ure)	ed byEMSL Analyt	ical <u>C. Nick Clark</u> (signature)
13. Other Samplin	g Results N/A		

Part III: Lead Hazard Control Options

14. Lead-Based Paint Policy Statement

On file CNEP and Cherokee Nation Housing Rehab

15. Name of Individual in Charge of Lead-Based Paint Hazard Control Program:

Cherokee Nation Housing Rehab - George Hubbard: 918-456-5482 ext. 1263

16. Recommended Changes to Work Order System and Property Management

The existing work order system is an informal verbal one. If painted surfaces will be disturbed during a particular repair job, the painted surface should be tested to determine if it has lead-based paint on it. If it does (or if testing is not completed), the maintenance worker should take the necessary precautions by wetting down the surface and performing cleanup. If the surface area is large or if the work will generate a significant amount of dust, clearance testing should be completed before residents move back into the room. The table below can be used as a general guide in determining whether maintenance jobs are likely to be high risk or low risk.

When work is assigned, the owner or worker should determine whether the job is low or high risk and adopt protective measures as needed.

Table 17.1 (Taken from HUD Guidelines) Summary of Low-and High-Risk Job Designations for Surfaces Known or Suspected to Have Lead-Based Paint

Job Description	Low Risk	High Risk		
Repainting (includes surface Preparation)				
Plastering or wall repair				
Window repair				
Water or moisture damage repair (repainting and plumbing)		A A		
Door repair	V			
Building component replacement				
Welding on Painted Surfaces		V		
Door lock repair or replacement	V			
Electrical fixture repair	V			
Floor refinishing	,			

Carpet replacement		1 1
Groundskeeping	√ V	
Radiator leak repair	V	
Baluster repair (metal)		√
Demolition		V

• High-risk jobs typically disturb more than 2 square feet per room. If these jobs disturb less than 2 square feet, then they can be considered low-risk jobs.

Table 17.2

	Low Risk	High Risk
Worksite preparation with plastic sheeting (6 mil thick)	Plastic sheet no less than 5 feet immediately underneath work area	Whole floor, plus simple airlock at door or tape door shut
Children kept out of work area	Yes	Yes
Resident relocation during work	No	Yes
Respirators	Probably not necessary*	Recommended
Protective clothing Note: Protective shoe coverings are not to be worn on ladders, scaffolds, etc.	Probably not necessary*	Recommended
Personal hygiene (enforced hand washing after job)	Required	Required
Showers	Probably not necessary	Recommended
Work practices	Use wet methods, except near electrical circuits	Use wet methods, except near electrical circuits
Cleaning	Wet cleaning with lead-specific detergent trisodium phosphate or other suitable detergent around the work area only (2 linear feet beyond plastic)	HEPA vacuum/wet wash/HEPA vacuum the entire work area
Clearance	Visual examination only	Dust sampling during the preliminary phase of the maintenance program and periodically thereafter (not required for every job)

Employers must have objective data showing that worker exposures are less than the OSHA
 Permissible Exposure Limit of 50ug/m3 if respirators and protective clothing will not be provided.

17. Interim Control Options and Estimated Costs

The costs shown below include labor, materials, worker protection, site containment and cleanup. These are only very rough estimates that may not be accurate; a precise estimate should be obtained from a certified lead-based paint abatement contractor. I would be pleased to perform clearance testing after this work has been completed at your request.

Lead-Based Paint Hazards:

Hazards -

10	1.4 mg/cm2	0.2 Positive	3 1/	28/2021	14:50:17 House	Living Room	Door	Casing	Wood2	A2	Peeling
61	1.4 mg/cm2	0.3 Positive	3 1/.	28/2021	15:29:24 House	Garage (Inte	Door		Wood8	B2	Peeling
67	1 mg/cm2	0.2 Positive	5 1/	28/2021	15:34:02 Exterior	House	Door		Wood1		Cracking
68	1.5 mg/cm2	0.3 Positive	2 1/	28/2021	15.34:53 Exterior	House	Door	Casing	Wood2		Cracking
76	1.4 mg/cm2	0.3 Positive	3 1/.	28/2021	15:41:44 Exterior	House	Room	Wall	Wood7		Peeling
81	1.2 mg/cm2	0.2 Positive	5 1/	28/2021	15:52:35 Exterior	Garage (Exte	Door		Wood2		STATE OF THE PARTY

Door and Door Casings - remove and replace

Walls - enclose or encapsulate

Lead Dust Hazards:

Hazard A. Living Room WT - HEPA Vacuum, wet mop, HEPA Vacuum

Hazard B. Kitchen Floor - HEPA Vacuum, wet mop w/ 2 bucket method, HEPA Vacuum

Hazard C. Kitchen WT - HEPA Vacuum, wet mop, HEPA Vacuum

Lead Soil Hazards:

Hazard A. Dripline - No hazards exist

18. Acceptable Abatement Options

Lead-Based Paint Hazards

Hazard A:

Door and Door Casings – remove and replace Walls – remove, replace, enclose or encapsulate

Lead Dust Hazards:

Hazard A. Living Room WT - HEPA Vacuum, wet mop, HEPA Vacuum

Hazard B. Kitchen Floor - HEPA Vacuum, wet mop w/ 2 bucket method, HEPA Vacuum

Hazard C. Kitchen WT - HEPA Vacuum, wet mop, HEPA Vacuum

Lead Soil Hazards:

Hazard A. Dripline - No Hazards Exist

19. Reevaluation and Monitoring Schedule

Each of these treatments will need to be reexamined periodically to make certain that they remain effective and to ensure that new lead-based paint hazards do not appear. The interim controls shown above are less expensive initially, but they may be more expensive in the long run since they need to be reevaluated more frequently. The replacement and paint removal methods are more expensive initially, but do not require any reevaluation.

The owner should monitor the condition of the paint at least annually or if there is some indication that paint might be failing. A professional reevaluation is also needed. The standard schedule for reevaluation the dwelling is shown above.

Reevaluation: Standard Reevaluation Schedule 3 contained in the HUD Guidelines applies to this property, since one of the rooms had a dust lead level greater than the standard. Therefore, the dwelling should be reevaluated in ___1/28/2022_____(12 months from now). If no lead-based paint hazards are identified at that time, another reevaluation should be conducted in ___1/28/2023____(2 years later). If no lead-based paint hazards are identified at that time, no further reevaluations are needed. However, since lead-based paint may be present in the dwelling, the owner should monitor the condition of all painted surfaces at least annually or whenever other information indicates a potential problem.

Part IV: Site Specific Lead Hazard Control Plan

- 20. Lead Hazard Control Option To Be Implemented in This Property I recommend abatement options for all hazards listed in Part 3, Section 18 of this document.
- Training Plan for Managers, Maintenance Supervisors and Workers
 On file Cherokee Nation Housing Rehab
- 22. Method of Resident Notification of Results of Risk Assessment and Lead Hazard Control Program

 In person by Cherokee Nation Housing Rehab
- 23. Signatures (Risk Assessor and Owner), Date and Certificate of Lead-Based Paint Compliance

Owner Signature	Date
Certified Risk Assessor Signature	Date

Certificate of Lead-Based Paint Compliance I hereby certify that on_____ the dwelling located at _____ meets the criteria established by the Department of Housing and Urban Development for lead safety. Either no lead-based paint hazards were identified or all lead-based paint hazards have been corrected. Owner C. Nick Clark Authorized Inspector Risk Assessor License # OKRASR13910 Expiration Date: March 31, 2021 **Cherokee Nation Environmental Programs**



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 1.800.822.1650

Environmental Chemistry Analysis Report

QuanTEM Set ID:

330845

Date Received:

02/02/21

Received By:

Chloe Collins

Date Sampled:

Time Sampled:

Analyst:

CR

Date of Report:

02/04/21

AIHA-LAP, LLC: 101352

Client:

Cherokee Nation En /ironmental Programs

Carlton N Clark

PO Box 948

Tahlequah, OK 74464

Acct. No.:

C162

Project:

Billie Simpson

Location:

Tulsa

Project No.: N/A

QuanTEM					Reporting		Date/Time	
ID	Client ID	Matrix	Parameter	Results	Limits	Units	Analyzed	Method
001	01	Wipe	Lead	< 5.0	5	ug/sq. Ft.	02/04/21 15:26	NIOSH 7082
002	02	Wipe	Lead	<14	14	ug/sq. Ft.	02/04/21 15:26	NIOSH 7082
003	03	Wipe	Lead	2,200	9.8	ug/sq. Ft.	02/04/21 15:26	NIOSH 7082
004	04	Wipe	Lead	< 5.0	5	ug/sq. Ft.	02/04/21 15:26	NIOSH 7082
005	05	Wipe	Lead	93	8.2	ug/sq. Ft.	02/04/21 15:26	NIOSH 7082
006	06	Wipe	Lead	16	5	ug/sq. Ft.	02/04/21 15:26	NIOSH 7082
007	07	Wipe	Lead	70	7.4	ug/sq. Ft.	02/04/21 15:26	NIOSH 7082
008	08	Wipe	Lead	2,900	6.2	ug/sq. Ft.	02/04/21 15:26	NIOSH 7082
009	09	Soil	Lead	190	40	mg/kg	02/04/21 15:26	Soil EPA 7000B (1)

Authorized Signature:

Cherry Rossen, Technical Manager

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations. Customer provided data such as volumes, areas, etc., cannot be verified by QuanTEM Laboratories, LLC.

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

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report **QAQC** Results

QA ID: Test:

19066

Lead

Date:

2/4/2021

Matrix: Soil

Lab Number

330845

2/4/2021

Approved By:

Cherry Rossen

Date Approved:

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit				
CCV	2.2	2,5	2.8				
FCV	2.2	2.6	2.8				
ICV	0.9	1.1	1,1				
RLVS	0.08	0.19	0.24				

Duplicate Data:

Sample Number	Result	Duplicate	% RPD
330845-009	0.776	0.787	1.3

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPI	
LCS-S1	0.000	2.431	2,223	91,4	2.265	93.2	1.9	
330845-009	0.776	2,000	2.957	109,1				

Authorized Signature:

Chang Bussin

Page 1 of 2

Cherry Rossen, Technical Manager

Supplemental Report **QAQC** Results

QA ID:

19067

Test:

Lead

Date:

2/4/2021

Matrix: Wipe

Lab Number Approved By

330845

Cherry Rossen

Date Approved: 2/4/2021

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit					
CCV	2.2	2.5	2.8					
FCV	2.2	2.6	2.8					
ICY	0.9	1.1	1.1					
RLVS	0.05	0.1	. 0.15					

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	 Dup. covery	% Sp ke RPD	
MS-WI	0.000	2,431	2,226	91,6	2,223	91.4	0,1	

Chang Buston

Authorized Signature:

Cherry Rossen Technical Manager



LEAD CHAIN OF CUSTODY

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

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For Lab Use Only
Lab No. 330 S 4 S

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of

	10	9	00	7	6	5	4	w	2		No. (10				1		SAMPLED BY:	Account #: C162	Contact	Company:	
		09	08	07	06	05	04	03	02	01	Sample ID (10 Characters Max)			Sall Walle	110 011	RELINQUISHED BY	BY: Name: C, Nicolas Clark	C162	C. Nicolas Clark	Cherokee Nation Er	
		Soil	Kitchen WT	Kitchen WS	Kitchen Floor	Bedroom 3 WS	Bedroom 3 Floor	Living Room WT	Living Room WS	Living Room Floor	Sample Description					ED BY	s Clark			Company: Cherokee Nation Environmental Programs	Contact Information
					-	/S	oor	N	NS	loor			REQUESTED SERVICES	4 12.08	2000	DATE & TIME	Date: 01/28/2021	E-mail: carlton-cla	Cell Phone: (918) 316-7451	Phone: (918)	
			117 sq in	97.50 sq in	144 sq in	87.50 sq in	144 sq in	73.50 sq in	53.13 sq in	144 sq in	Volume or Area			15 T. F. J. J.	100	VIA		carlton-clark@cherokee.org Pr		(918) 453-5000	
													(Please ☑ the Appropriate	4			P.O. Number:	Project ID:	Project Location:	Project Name:	
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											Wipes (ug/ft²)	orption NIOSH 7082			-	RECE		Appropriate service appropriate			tion
					-						Air (μg /m³)	182		0	0	RECEIVED BY		PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF			
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