

CHEROKEE NATION Environmental Programs

LEAD-BASED PAINT INSPECTION & RISK ASSESSMENT REPORT

Conducted At:

Name: Laura Jo Weir

Address: 26100 South 500 Rd

City State Zip: Tahlequah, 6K 74464 Coordinates: 35.79630, -95.00213

Built in: 1966

Prepared For:

HACN Housing Rehabilitation - George Hubbard Using ODEQ, EPA and CN Work Practice Standards Established in 40 CFR 745-227

Inspected By:

Chris Cochran

OKRASR13995, CNRASR00038

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Cherokee Nation Firm: CNFIRM00001

Report Date: December 28th, 2023

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1.0 EXECUTIVE SUMMARY

A lead based paint inspection was conducted at the Laura Jo Weir site on November 22nd, 2023 as requested by the Cherokee Nation Housing Rehabilitation Department. The inspection confirmed the presence of lead in amounts greater than or equal to 1.0 mg/cm² in paint, using the inspection protocol in Chapter 7 of the U.S. Department of Housing and Urban Development's (HUD) Guidelines for the Evaluation of Control of Lead-Based Paint Hazards in Housing (2012). A Risk Assessment was performed to fulfill the requirements for a federally assisted rehabilitation.

The full inspection report can be found in Appendix A (XRF Field Data Sheets). Building components that were unable to be tested with an XRF and are assumed positive include the following:

N/A

The following is a summary of the survey findings for the subject property:

Interior Lead-Based Paint No lead in paint identified.

Exterior Lead-Based Paint Soffits A,B,C Porch Ceiling A

Deteriorated Lead-Based Paint (Lead-Based Paint Hazards)
No Deteriorated Lead-Based Paint

Lead in Dust Hazards

No Lead in dust hazards were not identified.

Lead in Soil Hazards

No lead in soil hazards were not identified.

This executive summary has been prepared for the convenience of the users of this report. This summary does not contain all the information presented in this report and, therefore, the entire report should be read to assure all pertinent information is transmitted.

2.0 DISCLOSURE

A copy of this report or a summary of this report must be provided to new lessees (tenants) and purchasers of the property under Federal law (24 CFR part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract. The complete report must also be provided to new purchasers and it must be made available to new tenants. Property owners (leasers) and sellers are also required to

distribute an educational pamphlet approved by the US Environmental Protection Agency (EPA) and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards

3.0 INSPECTION/ RISK ASSESSMENT METHODOLOGY

3.1 SURFACE-BY-SURFACE INSPECTION METHODOLOGY

A surface-by-surface lead-based paint inspection was performed to identify interior and exterior building components finished with lead-based paint. The inspection was performed inside the residence and on exterior surfaces of the residence using a portable X-Ray Fluorescence Analyzer (XRF). The inspection was limited to accessible painted and/or varnished surfaces. All substrates within inaccessible rooms are assumed positive for lead-based paint until access is available to prove otherwise.

The inspection was conducted in accordance with the EPA's work practice standards for conducting lead-based paint activities (40 CFR 745.227), HUD's Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (Guidelines) with the 2012 revisions. Samples were collected to represent component types; therefore, it should be assumed that similar component types in the rest of that room or room equivalent also contain lead-based paint. When standing in any four-sided room facing side A, which coincides with the front of the dwelling, side B will be to the right, side C will be to the rear, and side D will be to the left (clockwise from side A).

When evaluating this report it is assumed that, according to Chapter 7 HUD Guidelines, if one testing combination (i.e. window, door) is positive for lead in an interior or exterior room equivalent, all other similar testing combinations in those areas are assumed to be positive. The same is true for negative readings.

3.2 X-RAY FLUORESCENCE ANALYZER LEAD DETECTOR

The sampling strategy utilized to determine the presence of lead-based paint adheres to the EPA Performance Characteristic Sheet for the particular XRF instrument used, as well as the manufacturers' modifications and recommendations. The Heuresis PB200i lead x-ray fluorescence analyzer (Serial Number: 2312) was used for detection of building components finished with lead-based paint. The instrument was manufactured by Viken Detection, 21 North Avenue, Burlington, MA 01803. The radioactive source is cobalt-57 and was last resourced on August 26, 2021.

Samples may be classified as positive or negative. Positive results indicate lead in quantities greater than 1.0 mg/cm2 and are considered lead-based paint. Negative results indicate lead in quantities less than 1.0 mg/cm2 and are not considered lead-based paint.

3.3 RISK ASSESSMENT METHODOLOGY

The lead-based paint risk assessment was performed to determine if the lead-based paint present in the residence presents an immediate hazard. This was accomplished through combining measurements of lead in dust, surface-by-surface paint analysis, visual assessment of the residence, assessment of paint condition, and by collecting maintenance and management data to identify and address lead-based paint hazards.

The risk assessment was performed in accordance with the EPA's work practice standards for conducting lead-based paint activities (40 CFR 745.227), HUD's Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (Guidelines) with the 2012 revisions.

3.4 DESCRIPTION OF PAINT CONDITION HAZARD RANKINGS

The paint condition is placed into one of two categories using the risk assessor's professional judgment. These categories are intact or deteriorated. Type of deterioration may also be noted on surfaces in deteriorated condition. Based on the approximate surface area of deteriorated paint, the risk assessor then assesses the paint condition as intact or deteriorated. These conditions indicate the potential for lead hazards associated with paint condition and lead in household dust.

Hazard ranking protocol was performed in accordance with the HUD Guidelines for Evaluation and Control of Lead-Based Paint Hazards in Housing, dated July 2012, Chapter 5: Risk Assessment and Reevaluation; Identification of Deteriorated Paint (Form 5.2). This information is summarized below.

Deteriorated

EPA regulations define deteriorated paint as "any interior or exterior paint or other coating that is peeling, chipping, chalking, or cracking, or any paint or coating located on an interior or exterior surface or fixture that is otherwise damaged or separated from the substrate" (40 CFR 745.63).

3.5 LABORATORY ANALYSIS

Laboratory analysis of dust wipe/soil samples were performed by QuanTem Laboratories (NLLAP 101352), 2033 Heritage Park Drive, Oklahoma City, OK 73120 Phone: 405-755-7272. Laboratory analysis of the dust wipes and soil samples are analyzed based on the EPA SW846-7420/ HUD – Flame Atomic Absorption.

4.0 DESCRIPTION OF RESULTS

This is a report of an X-ray Fluorescence (XRF) inspection and risk assessment to determine if lead-based paint exists in the readily accessible areas of this residence and tested components. The presence or absence of lead-based paint only applies to surfaces tested or assessed on the date of the field visit. According to HUD/EPA Guidelines, paint with concentrations of lead that exceed 1.0 mg/cm2 must be considered a lead-based paint (LBP). However, detectable lead in quantities less than 1.0 mg/cm2 may contribute to the development of lead dust hazards even though it is not considered a lead-based paint hazard.

4.1 LBP INSPECTION

Lead based paint was found on both the interior and exterior of the site. The positive readings are shown in the following table. The full report with all readings are in Appendix 1.

Reading #	Concentration	Unit	Room	Structure	Member	Substrate	Wall	Condition
82	1.0	mg/cm2	Exterior	Porch	Ceiling	Wood	Α	Intact
84	1.3	mg/cm2	Exterior		Soffit	Wood	Α	Intact
87	1.8	mg/cm2	Exterior	-	Soffit	Wood	В	Intact
88	1.4	mg/cm2	Exterior		Soffit	Wood	С	Intact

4.2 LBP RISK ASSESSMENT

Lead-based paint hazards and dust hazards were identified during the survey.

The lead hazards are:

- Exterior Soffit
- Exterior Porch Ceiling

Lead in Dust Hazards

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Lead in Soil Hazards

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4.3 RESIDENT QUESTIONNAIRE FORM 5.0

A resident questionnaire was completed as part of the Assessment, to help the identify particular use patterns, which may be associated with potential LBP hazards, such as opening and closing windows painted with LBP. The answers to the questionnaire were obtained during an interview with the occupants. Following is a summary of the information obtained during the interview.

Children in the Household:	None
Children's bed locations:	-
Children's eating locations:	-
Primary interior play area(s):	-
Primary exterior play area(s):	*
Pets:	
Blood lead testing history:	-
Observed chewed surfaces:	•
Women of child bearing age:	1
Previous lead testing:	None
Frequently used entrances:	Front Door
Frequently opened windows:	None
Structure Cooling Method:	None
Gardening -type and location:	none
Plans for landscaping:	None
Cleaning regiment:	Weekly
	-

Cleaning Methods:

Mopping, sweeping, dusting, vacuuming

Recent completed renovations:

None

Demolition debris on site:

None

Resident with work lead exposure: None Planned Renovations: A scor

A scope of work document for this residence is included in

Appendix C.

4.4 BUILDING CONDITION FORM 5.1

Condition	Yes	No	Comments
Roof is missing parts of surfaces (tiles, boards,		v	
shakes, etc.)		Х	
Roof has holes or large cracks		Χ	
Gutters or downspouts broken	X		
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		Х	
Water stains on interior walls or ceilings	Х		Bath Room
Walls or ceilings deteriorated		Χ	
More than "very small*" amount of paint in a room deteriorated		х	
Two or more windows or doors broken, missing, or boarded up		Х	
Porch or steps have major elements broken, missing, or boarded up.		х	
Foundation has major cracks, missing material, structure leans, or visibly unsound		х	
Total Number	2	10	

^{*}The "very small" amount is the de minimis amount under the HUD Lead Safe Housing Rule (24 CFR 35.1350(d)), or the amount of paint that is not "paint in poor condition" under the EPA lead training and certification ("402") rule (40 CFR 745.223)

Notes (including other conditions of concern):

4.5 DUST WIPE SAMPLE ANALYSIS

Dust wipe samples were collected in an effort to help determine the levels of lead-containing dust on the interior windowsills and floors. The following tables note the presence or absence of lead hazards in dust per the EPA risk assessment and clearance standards. Please refer to Appendix B for detailed

analytical reports. The presence of these hazards indicates that sample results exceed the following EPA criteria:

- 10 ug/ft2 for floors, including carpeted floors
- 100 ug/ft2 for interior window sills
- 100 ug/ft2 for interior window troughs

The following table indicates the sample number, location, surface type, lead concentration, and presence or absence of lead dust hazards for dust wipe samples collected during this LBP Risk Assessment:

Dust Wipe	Sample Analysis			
Sample #	Location	Surface Types	Concentration (Micrograms/ft²)	Lead Hazard
01	Living Room	Floor	<5.0	NO
02	Living Room	Window Sill	16	NO
03	Bathroom	Floor	<5.0	NO
04	Bathroom	Window Sill	17	NO
05	Porch	Floor	<5.0	NO
	3			

4.6 SOIL SAMPLE ANALYSIS

The EPA has established lead hazard standards for lead in soil under TSCA Section 403 (Residential Lead Hazards). Please refer to Appendix B for detailed analytical reports. The following level of lead in soil should be considered hazardous and may result in excessive lead exposure and elevated blood lead levels:

- 400 milligrams per kilogram (mg/Kg) in children's play areas with bare residential soil (e.g., sandboxes, gardens)
- 1,200 mg/Kg (average) in bare soil for the remainder of the yard.

The following table indicates the sample number, location, surface type, lead concentration, and presence or absence of lead soil hazards for soil samples collected during this LBP Risk Assessment:

Soil Sampl	e Analysis			
Sample #	Location	Bare or Covered	Concentration (Micrograms/ft²)	Lead Hazard
06	Dripline	Bare	<40	NO

5.0 RECOMMENDATIONS

5.1 DETERIORATED LEAD-BASED PAINT

Room or Exterior	Component	Type of	Approximate Area or	Acceptable Hazard Co	ntrol Options
Location		Hazard	Length	Interim	Abatement
Exterior Side A	Porch Ceiling	Paint		Wet scrape/Repaint	Replace or Enclose
Exterior Side A,B,C	Soffit	Paint		Wet scrape/Repaint	Replace or Enclose

5.2 LEAD DUST CONTROL OPTIONS

Room	Surface	Acceptable Hazard Control Method

5.3 LEAD IN SOIL

Type Of Area	Location	Acceptable Hazard Contro	ol Options

6.0 RE-EVALUATION 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 end 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.

Re-evaluation: Standard Re-evaluation Schedule 3 contained in the HUD Guidelines does not applies to this property. Therefore, the dwelling should be reevaluated in N/A (12 months from now). If no lead-based paint hazards are identified at that time, another reevaluation should be conducted in N/A (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.

APPENDIX A: XRF Field Data Sheets & Floor Plan

Viken Detection
Pb200i
XRF Lead Paint Analyzer
2312
Pb200i-5.3.1

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0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.07	0,07	3 SD
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Ceiling Drywall1 Baseboard Wood1	Wood8	Wood7	Wood6	Wood5	Wood4	Wood3	Wood2	Wood1	Drywall1	Baseboard Wood8	Wood7	Wood6	Wood5	Wood4	Wood3	Wood2	Baseboard Wood1	Drywall5	Drywall4	Drywall3	Drywall2	Drywall1				>Membe Substrate Wall
A1	A8	A7	A6	A5	A4	A3	A2	A1		C3	C2	C1	A5	A4	A3	A2	A1		A4	A3	A2	A1	6	51	4	e Wall
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Kitchen/Di Room Kitchen/Di Room
Kitchen/Di Room
Kitchen/Di Room
11/22/2023 Kitchen/Di Room Baseboa
11/22/2023 Kitchen/Di Door Jamb
11/22/2023 Kitchen/Di Window Sill
11/22/2023 Kitchen/Di Cabinets Frame
11/22/2023 Kitchen/Di Cabinets Door
11/22/2023 Bedroom : Window Sill
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11/22/2023 Bathroom Room Basebo
11/22/2023 Bathroom Door Jamb
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11/22/2023 Bathroom Cabinets Door
11/22/2023 Bedroom Window Sill
11/22/2023 Bedroom : Door Jamb
11/22/2023 Bedroom ¿Door

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Room V	Fascia	Soffit	Door J	Door	Fascia	Soffit	Soffit	Fascia	Fascia	Soffit		Porch (Door .	Door	Bathroom Room	Bathroom Room	Room	Room	Room	om Room	Door	Bathroom Window	Bathroom Cabinets	Bathroom Cabinets	Laundry Rc Window	Laundry Rc Door	Laundry R. Door	Laundry Rt Room	Laundry R: Room	Laundry Rc Room	Laundry R. Room	y Rı Room
Wall Wall			Jamb								Column	Ceiling	Jamb		Wall	Wall	Wall	Wall	Ceiling	Baseboa	Jamb	Sill	Frame	Door	SIII	Jamb		Baseboa	Ceiling	Wall	Wall	Wall
Metal1 Metal2	Wood4	Wood3	Wood2	Wood1	Wood7	Wood6	Wood5	Wood4	Wood3	Wood2	Wood1	Drvwall1	Wood2	Wood1	Drywall5	Drywall4	Drywall3	Drywall2	Drywall1	Baseboard Wood9	Wood8	Wood7	Wood6	Wood5	Wood4	Wood3	Wood2	Baseboard Wood1	Drywall5	Drywall4	Drywall3	Drywall2
A1 B1	D2	D1	C4	C3	C2	01	B2	B1	A10	A9	A8	A7	A6	A5	A4	A3	A2	A1		B2	B1	C1	D2	D1	C1	B2	B1	D1	-	1 A8	8 A7	2 A6
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3			Intact	Intact

APPENDIX B: DUST WIPE & SOIL ANALYSIS



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120

1.800.822.1650

Environmental Chemistry Analysis Report

QuanTEM Set ID:

364382

Date Received:

11/28/23

Received By:

Baylie Longstreth

Date Sampled:

Time Sampled:

Analyst:

CR

Date of Report:

11/29/23

AIHA LAP, LLC: 101352

Client:

Cherokee Nation Environmental Programs

Chris Cochran

PO Box 948

Tahlequah, OK 74464

Acct. No.:

C162

Tahlequah

Project:

Lave To Wair

Location:

Project No.: N/A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	01	Wipe	Lead	<5.0	5	ug/sq. Ft.	11/28/23 14:24	NIOSH 7082
002	02	Wipe	Lead	16	10	ug/sq. Ft.	11/28/23 14:24	NIOSH 7082
003	03	Wipe	Lead	< 5.0	5	ug/sq. Ft.	11/28/23 14:24	NIOSH 7082
004	04	Wipe	Lead	17	10	ug/sq. Ft.	11/28/23 14:24	NIOSH 7082
005	05	Wipe	Lead	< 5.0	5	ug/sq. Ft.	11/28/23 14:24	NIOSH 7082
006	06	Soil	Lead	<40	40	mg/kg	11/29/23 13:48	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, upon 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:

21026

Test:

Lead

Date:

11/28/2023

Matrix: Wipe

Lab Number:

364382

Approved By:

Cherry Rossen

Date Approved: 11/28/2023

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	2.6	2.8
FCV	2.2	2,6	2.8
RLVS	0.05	0.09	0.15
ICV	0.9	1	1,1

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W1	0.000	2.428	2.538	104.5	2.525	104.0	0.5

	g Grove Eddin	
Authorized Signature:		,

Supplemental Report QAQC Results

QA ID: Test: 21030

Lead

Date:

11/29/2023

Matrix: Soil

Lab Number:

364382

Approved By:

Cherry Rossen

Date Approved: 11/29/2023

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	2.6	2.8
FCV	2.2	2.6	2.8
RLVS	0.08	0.13	0.24
ICV	0.9	1	1.1

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
LCS-S1	0.000	2.428	2.625	108.1	2.595	106.9	1.2

Authorized Signature:



LEAD 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

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Page 1

Contact Information				Project Information	Report R	Report Results (☑ one box)
Company: Cherokee Nation Environmental Programs		-5009	Project Name:	Phone: (918) 453-5009 Project Name: Amber Maner Laws To Wast.	O Qua	nTEM Website
Contact: Christopher Cochran	Cell Phone: (918) 316-7452 Project Location: Tahlequah	-7452	Project Location:	Tahlequah	• Ema	Email christopher-cochran@cherokee.org
Account #: C162	E-mail: christopher-cochran@cherokee.org Project ID:	Schorokee.org	Project ID:		O Other	
SAMPLED BY: Name: Christopher Cochran-	Date: 11/22/2023		P.O. Number: 874812	874812		×
RELINQUISHED BY	DATE & TIME	^	VIA	RECEIVED BY		DATE & TIME
Christopher Cochran	11/22/2023	Fec	Fed Ex	18		02:6 20/86/11

	TURNAROUND TIME	Same Day	24-Hour	3 - Day	○ 5 - Day												
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REQUESTED SERVICES (Please ☑ the Appropriate Boxes)				Sample Description			om Floor	m Window	Bathroom Floor	Bathroom Window	Porch Floor	Line					
				Sample D			Living Room	Living Room Window	Bathroc	Bathroom	Porch	Drip Line					
			Sample ID	No. (10 Characters Max)			01	02	03	04	05	90					
				No.			-	2	8	4	S	9	7	00	6	10	11

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

APPENDIX C: SCOPE OF WORK/REQUEST