



CHEROKEE NATION Environmental Programs

LEAD-BASED PAINT INSPECTION & RISK ASSESSMENT REPORT

Conducted At:

Name: Felicia Allison
Address: 1111 W. Creek Ave.
City State Zip: Sallisaw, OK 74955
Coordinates: 35.4572, -94.8028
Built in: 1970

Prepared For:

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

Inspected By:

Logan Girty

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OKRASR13822, CNRASR00037

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Report Date: June 11, 2024

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1.0 EXECUTIVE SUMMARY

A lead based paint inspection was conducted at the Felicia Allison site on June 4, 2024 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:

*Exterior Siding, Soffit and Fascia Wrapped in Vinyl

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

Interior Lead-Based Paint

Enclosed Porch Wall, Wood Side A&B
Enclosed Porch Window Sill & Trim, Wood Side A

Exterior Lead-Based Paint

Door Jamb, Wood Side A
Window Sill, Wood Side A
Garage Door, Metal Side A

Deteriorated Lead-Based Paint (Lead-Based Paint Hazards)

Enclosed Porch Wall, Wood Side A&B
Enclosed Porch Window Sill & Trim, Wood Side A
Exterior Door Jamb, Wood Side A
Exterior Window Sill, Wood Side A
Exterior Garage Door, Metal Side A

Lead in Dust Hazards

Kitchen Window Sill

Lead in Soil Hazards

No lead in soil hazards were 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 (lessors) 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 #	Pb	Units	Room	Structure	Member	Substrate	Wall	Condition
40	2	mg/cm2	Enclosed Porch	Room	Wall	Wood6	A	Peeling
41	1.4	mg/cm2	Enclosed Porch	Room	Wall	Wood7	B	Peeling
44	1.1	mg/cm2	Enclosed Porch	Window	Sill	Wood10	A	Chipping
45	1.1	mg/cm2	Enclosed Porch	Window	Trim	Wood11	A	Chipping
104	1	mg/cm2	Exterior	Door	Jamb	Wood8	A	Chalking
105	2.1	mg/cm2	Exterior	Window	Sill	Wood9	A	Chipping
106	1.3	mg/cm2	Garage Ext	Door		Metal1	A	Peeling

4.2 LBP RISK ASSESSMENT

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

The lead hazards are:

- Enclosed Porch Wall Side A&B
- Enclosed Porch Window Sill & Trim Side A
- Exterior Door Jamb Side A
- Exterior Window Sill Side A
- Exterior Garage Door Side A

Lead in Dust Hazards

- Kitchen Window Sill

Lead in Soil Hazards

- N/A

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:	0
Previous lead testing:	None
Frequently used entrances:	Front & Rear Doors
Frequently opened windows:	None

Structure Cooling Method:	Window Unit in Living Room & Bedrooms
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 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, shakes, etc.)	X		
Roof has holes or large cracks	X		
Gutters or downspouts broken, missing.	X		No Guttering
Chimney masonry cracked, bricks loose or missing, obviously out of plumb.		X	
Exterior or interior walls have obvious large cracks or holes, requiring more than routine painting.		X	
Exterior siding has missing boards or shingles		X	
Water stains on interior walls or ceilings		X	
Walls or ceilings deteriorated		X	
More than “very small*” amount of paint in a room deteriorated		X	
Two or more windows or doors broken, missing, or boarded up		X	
Porch or steps have major elements broken, missing, or boarded up.		X	
Foundation has major cracks, missing material, structure leans, or visibly unsound		X	
Total Number	3	9	

*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	Kitchen	Floor	<5	NO
02	Kitchen	Window Sill	400	YES
03	Back Porch (Enclosed)	Floor	<5	NO
04	Back Porch (Enclosed)	Window Sill	<7.7	NO
05	Living Rm	Floor	<5	NO
06	Living Rm	Window Sill	12	NO
07	Front Porch (Conc)	Floor	<5	NO

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 Sample Analysis				
Sample #	Location	Bare or Covered	Concentration (Micrograms/ft²)	Lead Hazard
8	Dripline	Bare	<40	NO

5.0 RECOMMENDATIONS

5.1 DETERIORATED LEAD-BASED PAINT

Room or Exterior Location	Component	Type of Hazard	Approximate Area or Length	Acceptable Hazard Control Options	
				Interim	Abatement
Enclosed Porch	Wall	Paint	800 sq. ft.	Wet scrape/Repaint	Replace, Encapsulate or Enclose
Enclosed Porch	Window Sill & Trim	Paint		Wet scrape/Repaint	Replace or Encapsulate
Exterior	Door Jamb	Paint		Wet scrape/Repaint	Replace or Encapsulate
Exterior	Window Sill	Paint		Wet scrape/Repaint	Replace, Encapsulate or Enclose
Exterior	Garage Door	Paint		Wet scrape/Repaint	Replace or Encapsulate

5.2 LEAD DUST CONTROL OPTIONS

Room	Surface	Acceptable Hazard Control Method
Kitchen	Window Sill	Hepa-Vac/Wet Wipe/Hepa-Vac

5.3 LEAD IN SOIL

Type Of Area	Location	Acceptable Hazard Control Options	
N/A			

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 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 June 2025 (12 months from now). If no lead-based paint hazards are identified at that time, another reevaluation should be conducted in June 2026 (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

Reading #	Pb	Units	Pb Error	Result	Secs	Date	Time	Room	Structure	Member	Substrate	Wall	Condition
1	1.18	mg/cm2	0.07		20.01	6/4/2024	12:27:17	Calibration					
2	1.21	mg/cm2	0.07		20.01	6/4/2024	12:28:12	Calibration					
3	1.17	mg/cm2	0.07		20.01	6/4/2024	12:29:06	Calibration					
4	0.3	mg/cm2	0.3	Negative	2	6/4/2024	12:36:22	Living Room	Room	Wall	Drywall1	A	Intact
5	0.2	mg/cm2	0.3	Negative	2	6/4/2024	12:36:44	Living Room	Room	Wall	Drywall2	B	Intact
6	0.2	mg/cm2	0.2	Negative	2	6/4/2024	12:37:03	Living Room	Room	Wall	Drywall3	C	Intact
7	0.3	mg/cm2	0.3	Negative	2	6/4/2024	12:37:16	Living Room	Room	Wall	Drywall4	D	Intact
8	0.2	mg/cm2	0.2	Negative	2	6/4/2024	12:37:31	Living Room	Room	Ceiling	Drywall5		Intact
9	0.2	mg/cm2	0.2	Negative	2	6/4/2024	12:37:52	Living Room	Room	Baseboard	Wood1	A	Intact
10	0	mg/cm2	0.3	Negative	2	6/4/2024	12:38:18	Living Room	Window	Sill	Wood2	A	Intact
11	0.3	mg/cm2	0.2	Negative	2	6/4/2024	12:39:08	Living Room	Door		Wood3	A	Intact
12	0.2	mg/cm2	0.3	Negative	2	6/4/2024	12:39:22	Living Room	Door	Casing	Wood4	A	Intact
13	0.1	mg/cm2	0.3	Negative	2	6/4/2024	12:40:15	Kitchen/Dining	Room	Wall	Wood1	A	Intact
14	0.1	mg/cm2	0.2	Negative	2	6/4/2024	12:40:29	Kitchen/Dining	Room	Wall	Wood2	B	Intact
15	0.2	mg/cm2	0.2	Negative	2	6/4/2024	12:40:42	Kitchen/Dining	Room	Wall	Wood3	C	Intact
16	0.2	mg/cm2	0.2	Negative	2	6/4/2024	12:41:18	Kitchen/Dining	Room	Wall	Drywall1	D	Intact
17	0.3	mg/cm2	0.2	Negative	2	6/4/2024	12:41:40	Kitchen/Dining	Room	Ceiling	Drywall2		Intact
18	0.1	mg/cm2	0.2	Negative	2	6/4/2024	12:42:07	Kitchen/Dining	Room	Baseboard	Wood1	A	Intact
19	0.6	mg/cm2	0.2	Negative	2	6/4/2024	12:42:40	Kitchen/Dining	Window	Sill	Wood2	C	Intact
20	0	mg/cm2	0.3	Negative	2	6/4/2024	12:43:08	Kitchen/Dining	Cabinets	Door	Wood3	C	Intact
21	0.2	mg/cm2	0.2	Negative	2	6/4/2024	12:43:17	Kitchen/Dining	Cabinets	Frame	Wood4	C	Intact
22	0.3	mg/cm2	0.2	Negative	2	6/4/2024	12:44:39	Garage	Room	Wall	Drywall1	A	Intact
23	0.2	mg/cm2	0.3	Negative	2	6/4/2024	12:44:52	Garage	Room	Wall	Drywall2	B	Intact
24	0.2	mg/cm2	0.3	Negative	2	6/4/2024	12:45:18	Garage	Room	Wall	Drywall3	C	Intact
25	0.2	mg/cm2	0.3	Negative	2	6/4/2024	12:45:31	Garage	Room	Wall	Drywall4	D	Intact
26	0	mg/cm2	0.3	Negative	2	6/4/2024	12:45:45	Garage	Room	Ceiling	Drywall5		Intact
27	0.3	mg/cm2	0.2	Negative	2	6/4/2024	12:46:16	Garage	Room	Baseboard	Wood1	C	Intact

28	0.9 mg/cm2	0.2 Negative	5	6/4/2024	12:46:51	Garage	Door	Wood2	B	Intact
29	0.1 mg/cm2	0.2 Negative	2	6/4/2024	12:47:14	Garage	Door	Wood3	B	Intact
30	0.2 mg/cm2	0.2 Negative	2	6/4/2024	12:47:46	Laundry Rm	Room	Drywall1	A	Intact
31	0.3 mg/cm2	0.3 Negative	2	6/4/2024	12:47:54	Laundry Rm	Room	Drywall2	B	Intact
32	0.2 mg/cm2	0.3 Negative	2	6/4/2024	12:48:06	Laundry Rm	Room	Drywall3	C	Intact
33	0.2 mg/cm2	0.3 Negative	2	6/4/2024	12:48:15	Laundry Rm	Room	Drywall4	D	Intact
34	0.2 mg/cm2	0.2 Negative	2	6/4/2024	12:48:24	Laundry Rm	Room	Drywall5	D	Intact
35	0.2 mg/cm2	0.2 Negative	2	6/4/2024	12:48:51	Laundry Rm	Window	Wood1	C	Intact
36	0.3 mg/cm2	0.2 Negative	2	6/4/2024	12:49:11	Laundry Rm	Cabinets	Wood2	C	Intact
37	0.2 mg/cm2	0.2 Negative	2	6/4/2024	12:49:19	Laundry Rm	Cabinets	Wood3	C	Intact
38	0.3 mg/cm2	0.2 Negative	2	6/4/2024	12:49:36	Laundry Rm	Door	Wood4	A	Intact
39	0.1 mg/cm2	0.2 Negative	2	6/4/2024	12:49:44	Laundry Rm	Door	Wood5	A	Intact
40	2 mg/cm2	0.3 Positive	2	6/4/2024	12:52:22	Enclosed Porch	Room	Wood6	A	Peeling
41	1.4 mg/cm2	0.3 Positive	2	6/4/2024	12:54:09	Enclosed Porch	Room	Wood7	B	Peeling
42	0.2 mg/cm2	0.3 Negative	2	6/4/2024	12:54:30	Enclosed Porch	Room	Wood8	C	Intact
43	0.1 mg/cm2	0.3 Negative	2	6/4/2024	12:54:59	Enclosed Porch	Room	Wood9	D	Intact
44	1.1 mg/cm2	0.2 Positive	5	6/4/2024	12:55:34	Enclosed Porch	Window	Wood10	A	Chipping
45	1.1 mg/cm2	0.2 Positive	5	6/4/2024	12:55:58	Enclosed Porch	Window	Wood11	A	Chipping
46	0.2 mg/cm2	0.2 Negative	2	6/4/2024	12:56:40	Enclosed Porch	Window	Wood12	C	Peeling
47	0.2 mg/cm2	0.3 Negative	2	6/4/2024	12:57:11	Enclosed Porch	Door	Wood13	D	Intact
48	0.3 mg/cm2	0.3 Negative	2	6/4/2024	12:57:25	Enclosed Porch	Door	Wood14	D	Intact
49	0.2 mg/cm2	0.3 Negative	2	6/4/2024	12:57:34	Enclosed Porch	Door	Wood15	D	Intact
50	0.2 mg/cm2	0.2 Negative	2	6/4/2024	12:58:46	Bedroom 1	Room	Wood16	A	Intact
51	0.3 mg/cm2	0.3 Negative	2	6/4/2024	12:58:56	Bedroom 1	Room	Wood17	B	Intact
52	0.1 mg/cm2	0.3 Negative	2	6/4/2024	12:59:08	Bedroom 1	Room	Wood18	C	Intact
53	0.2 mg/cm2	0.3 Negative	2	6/4/2024	12:59:19	Bedroom 1	Room	Wood19	D	Intact
54	0 mg/cm2	0.2 Negative	2	6/4/2024	12:59:34	Bedroom 1	Room	Wood20	D	Intact
55	0 mg/cm2	0.2 Negative	2	6/4/2024	13:00:41	Bedroom 1	Room	Wood21	C	Intact
56	0.1 mg/cm2	0.2 Negative	2	6/4/2024	13:01:15	Bedroom 1	Window	Wood22	D	Intact
57	0.1 mg/cm2	0.3 Negative	2	6/4/2024	13:01:42	Bedroom 1	Door	Wood23	B	Intact
58	0.4 mg/cm2	0.2 Negative	2	6/4/2024	13:01:52	Bedroom 1	Door	Wood24	B	Intact
59	0.2 mg/cm2	0.2 Negative	2	6/4/2024	13:02:58	Den	Room	Drywall1	A	Intact
60	0 mg/cm2	0.2 Negative	2	6/4/2024	13:03:14	Den	Room	Drywall2	B	Intact
61	0.1 mg/cm2	0.2 Negative	2	6/4/2024	13:03:28	Den	Room	Drywall3	C	Intact

62	0.2 mg/cm2	0.2 Negative	2	6/4/2024	13:03:44	Den	Room	Wall	Drywall4	D	Intact
63	0.2 mg/cm2	0.2 Negative	2	6/4/2024	13:03:59	Den	Room	Ceiling	Drywall5		Intact
64	0.1 mg/cm2	0.3 Negative	2	6/4/2024	13:04:34	Den	Window	Sill	Wood1	D	Intact
65	0 mg/cm2	0.2 Negative	2	6/4/2024	13:05:14	Den	Door		Wood2	B	Intact
66	0.1 mg/cm2	0.2 Negative	2	6/4/2024	13:05:23	Den	Door	Casing	Wood3	B	Intact
67	0.2 mg/cm2	0.3 Negative	2	6/4/2024	13:06:02	Bedroom 1	Room	Wall	Drywall1	A	Intact
68	0.3 mg/cm2	0.2 Negative	2	6/4/2024	13:06:16	Bedroom 1	Room	Wall	Drywall2	B	Intact
69	0.3 mg/cm2	0.3 Negative	2	6/4/2024	13:06:27	Bedroom 1	Room	Wall	Drywall3	C	Intact
70	0.2 mg/cm2	0.3 Negative	2	6/4/2024	13:06:49	Bedroom 1	Room	Wall	Drywall4	D	Intact
71	0.2 mg/cm2	0.3 Negative	2	6/4/2024	13:07:03	Bedroom 1	Room	Ceiling	Drywall5		Intact
72	0.1 mg/cm2	0.2 Negative	2	6/4/2024	13:07:36	Bedroom 1	Room	Baseboard	Wood1	A	Intact
73	0 mg/cm2	0.2 Negative	2	6/4/2024	13:08:11	Bedroom 1	Window	Sill	Wood2	A	Intact
74	0.2 mg/cm2	0.2 Negative	2	6/4/2024	13:08:38	Bedroom 1	Door		Wood3	B	Intact
75	0.1 mg/cm2	0.2 Negative	2	6/4/2024	13:08:50	Bedroom 1	Door	Casing	Wood4	B	Intact
76	0.3 mg/cm2	0.3 Negative	2	6/4/2024	13:09:26	Bedroom 2	Room	Wall	Drywall1	A	Intact
77	0.2 mg/cm2	0.2 Negative	2	6/4/2024	13:09:37	Bedroom 2	Room	Wall	Drywall2	B	Intact
78	0.3 mg/cm2	0.3 Negative	2	6/4/2024	13:09:57	Bedroom 2	Room	Wall	Drywall3	C	Intact
79	0.3 mg/cm2	0.2 Negative	2	6/4/2024	13:10:07	Bedroom 2	Room	Wall	Drywall4	D	Intact
80	0.2 mg/cm2	0.2 Negative	2	6/4/2024	13:10:36	Bedroom 2	Room	Ceiling	Drywall5		Intact
81	0.3 mg/cm2	0.2 Negative	2	6/4/2024	13:11:08	Bedroom 2	Room	Baseboard	Wood1	A	Intact
82	0.1 mg/cm2	0.2 Negative	2	6/4/2024	13:11:34	Bedroom 2	Window	Sill	Wood2	B	Intact
83	0.2 mg/cm2	0.2 Negative	2	6/4/2024	13:11:57	Bedroom 2	Door		Wood3	A	Intact
84	0.2 mg/cm2	0.2 Negative	2	6/4/2024	13:12:06	Bedroom 2	Door	Casing	Wood4	A	Intact
85	0.2 mg/cm2	0.2 Negative	2	6/4/2024	13:12:36	Bedroom 3	Room	Wall	Drywall1	A	Intact
86	0.2 mg/cm2	0.3 Negative	2	6/4/2024	13:12:51	Bedroom 3	Room	Wall	Drywall2	B	Intact
87	0.2 mg/cm2	0.3 Negative	2	6/4/2024	13:13:07	Bedroom 3	Room	Wall	Drywall3	C	Intact
88	0.2 mg/cm2	0.3 Negative	2	6/4/2024	13:13:26	Bedroom 3	Room	Wall	Drywall4	D	Intact
89	0.2 mg/cm2	0.3 Negative	2	6/4/2024	13:13:37	Bedroom 3	Room	Ceiling	Drywall5		Intact
90	0 mg/cm2	0.2 Negative	2	6/4/2024	13:13:56	Bedroom 3	Room	Baseboard	Wood1	A	Intact
91	0.2 mg/cm2	0.2 Negative	2	6/4/2024	13:14:28	Bedroom 3	Door		Wood2	A	Intact
92	0.1 mg/cm2	0.2 Negative	2	6/4/2024	13:14:37	Bedroom 3	Door	Casing	Wood3	A	Intact
93	0.2 mg/cm2	0.2 Negative	2	6/4/2024	13:15:21	Bathroom 1	Room	Wall	Drywall1	A	Intact
94	0.2 mg/cm2	0.3 Negative	2	6/4/2024	13:15:33	Bathroom 1	Room	Wall	Drywall2	B	Intact
95	0.2 mg/cm2	0.2 Negative	2	6/4/2024	13:15:44	Bathroom 1	Room	Wall	Drywall3	C	Intact

96	0.3 mg/cm2	0.3 Negative	2	6/4/2024	13:15:54	Bathroom 1	Room	Wall	Drywall4	D	Intact
97	0.2 mg/cm2	0.2 Negative	2	6/4/2024	13:16:15	Bathroom 1	Room	Ceiling	Wood1		Intact
98	0.1 mg/cm2	0.2 Negative	2	6/4/2024	13:16:46	Bathroom 1	Window	Sill	Wood2	A	Intact
99	0.2 mg/cm2	0.3 Negative	2	6/4/2024	13:17:11	Bathroom 1	Cabinets	Door	Wood3	D	Intact
100	0.1 mg/cm2	0.2 Negative	2	6/4/2024	13:17:21	Bathroom 1	Cabinets	Frame	Wood4	D	Intact
101	0.3 mg/cm2	0.2 Negative	2	6/4/2024	13:17:45	Bathroom 1	Door		Wood5	C	Intact
102	0.2 mg/cm2	0.2 Negative	2	6/4/2024	13:17:54	Bathroom 1	Door	Casing	Wood6	C	Intact
103	0.2 mg/cm2	0.2 Negative	2	6/4/2024	13:18:33	Exterior	Door		Wood7	A	Intact
104	1 mg/cm2	0.2 Positive	5	6/4/2024	13:18:52	Exterior	Door	Jamb	Wood8	A	Chalking
105	2.1 mg/cm2	0.3 Positive	2	6/4/2024	13:19:39	Exterior	Window	Sill	Wood9	A	Chipping
106	1.3 mg/cm2	0.2 Positive	3	6/4/2024	13:20:09	Garage Ext	Door		Metal1	A	Peeling
107	0.3 mg/cm2	0.2 Negative	2	6/4/2024	13:23:01	Shed Ext	Room	Wall	Wood1	A	Intact
108	0.4 mg/cm2	0.3 Negative	2	6/4/2024	13:23:15	Shed Ext	Room	Wall	Wood2	B	Intact
109	0.2 mg/cm2	0.2 Negative	2	6/4/2024	13:23:31	Shed Ext	Room	Wall	Wood3	C	Intact
110	0.3 mg/cm2	0.2 Negative	2	6/4/2024	13:23:39	Shed Ext	Room	Wall	Wood4	D	Intact
111	0.4 mg/cm2	0.2 Negative	2	6/4/2024	13:24:11	Shed Ext	Soffit		Wood5	B	Intact
112	0.1 mg/cm2	0.2 Negative	2	6/4/2024	13:24:19	Shed Ext	Fascia		Wood6	B	Intact
113	0.1 mg/cm2	0.2 Negative	2	6/4/2024	13:24:43	Shed Ext	Door		Wood7	A	Intact
114	0.2 mg/cm2	0.3 Negative	2	6/4/2024	13:24:51	Shed Ext	Door	Jamb	Wood8	A	Intact
115	1.1 mg/cm2	0.07	20.12	6/4/2024	13:29:49	Calibration					
116	1.08 mg/cm2	0.07	20.04	6/4/2024	13:30:50	Calibration					
117	1.12 mg/cm2	0.07	20.13	6/4/2024	13:31:44	Calibration					

*House Siding, Soffit & Fascia Wrapped in Vinyl

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: 369602 Date Received: 06/05/24 Received By: Courtney Holman Date Sampled: Time Sampled: Analyst: Date of Report: 06/07/24 AIHA LAP, LLC: 101352	Client: Cherokee Nation Environmental Programs Logan Girty PO Box 948 Tahlequah, OK 74464 Acct. No.: C162 Project: Felicia Allison Location: Sallisaw Project No.: N/A
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Quantem ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	01	Wipe	Lead	<5.0	5	ug/sq. Ft.	06/06/24 8:30	NIOSH 7082
002	02	Wipe	Lead	400	7.2	ug/sq. Ft.	06/06/24 8:30	NIOSH 7082
003	03	Wipe	Lead	<5.0	5	ug/sq. Ft.	06/06/24 8:30	NIOSH 7082
004	04	Wipe	Lead	<7.7	7.7	ug/sq. Ft.	06/06/24 8:30	NIOSH 7082
005	05	Wipe	Lead	<5.0	5	ug/sq. Ft.	06/06/24 8:30	NIOSH 7082
006	06	Wipe	Lead	12	7.1	ug/sq. Ft.	06/06/24 8:30	NIOSH 7082
007	07	Wipe	Lead	<5.0	5	ug/sq. Ft.	06/06/24 8:30	NIOSH 7082
008	08	Soil	Lead	<40	40	mg/kg	06/07/24 8:30	Soil EPA 7000B (1)

Authorized Signature: _____
 Eric Caves, Chemistry 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: 21151
Test: Lead

Date: 6/6/2024
Matrix: Wipe

Lab Number: 369602
Approved By: Eric Caves
Date Approved: 6/6/2024

Notes:

Blank Data:

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

Standards Data:

Standard	Low Limit	Obtained	High Limit
FCV	2.2	2.36	2.8
RLVS	0.05	0.05	0.15
ICV	0.9	0.9	1.1

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W	0.000	2.428	2.220	91.4	2.160	89.0	2.7

Authorized Signature: _____



Eric Caves, Chemistry Technical Manager

Supplemental Report QAQC Results

QA ID: 21154
Test: Lead

Date: 6/7/2024
Matrix: Soil

Lab Number: 369602
Approved By: Eric Caves
Date Approved: 6/7/2024

Notes:

Blank Data:

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

Standards Data:

Standard	Low Limit	Obtained	High Limit
FCV	2.2	2.67	2.8
RLVS	0.08	0.19	0.24
ICV	0.9	1.04	1.1

Duplicate Data:

Sample Number	Result	Duplicate	% RPD
369600-004	0.000	0.000	#Num!

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
369600-004	0.000	2.000	2.120	106.0			
LCS-S	0.000	2.428	2.770	114.1	2.730	112.4	1.5

Authorized Signature: _____



Eric Caves, Chemistry 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. 369602
 Accept Reject

Contact Information		Project Information	
Company: Cherokee Nation Environmental Programs	Phone: (918) 453-5000	Project Name: Felicia Allison	Report Results (<input checked="" type="checkbox"/> one box)
Contact: Logan Girty	Cell Phone: (918) 772-8346	Project Location: Sallisaw	<input type="radio"/> Quantem Website
Account #: C 162	E-mail: logan-girty@cherokee.org	Project ID:	<input checked="" type="radio"/> Email logan-girty@cherokee.org
SAMPLED BY: Name: Logan Girty	Date: 06/04/2024	PO Number: 874812	<input type="radio"/> Other

RELINQUISHED BY: <i>Logan Girty</i>	VIA	RECEIVED BY: <i>Logan Girty</i>	DATE & TIME
	FedEx		6/5/24 @ 9:40

REQUESTED SERVICES (Please the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume or Area	Flame Atomic Absorption			Other Analysis	TURNAROUND TIME
				EPA 7000B	NIOSH 7082	Other Analysis		
				wt%	ppm	mg/cm ²		
1	01	Kitchen Floor	144 sq in	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	TCLP - Pb	<input type="radio"/> Same Day
2	02	Kitchen Window Sill	100 sq in	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	TCLP - RCRA 8	<input type="radio"/> 24 - Hour
3	03	Back Porch Floor	144 sq in	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Air (ug/m ³)	<input checked="" type="radio"/> 3 - Day
4	04	Back Porch Window Sill	93 sq in	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Wipes (ug/ft ²)	<input type="radio"/> 5 - Day
5	05	Living Rm Floor	144 sq in	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil (mg/kg)	
6	06	Living Rm Window Sill	101.5 sq in	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Bulk (mg/kg)	
7	07	Front Porch Floor	144 sq in	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Paint Chips	
8	08	Composite Soil (Dripline)	122.5 sq in	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	RCRA 8	
9								
10								
11								