



OFFICE OF COUNTY MAYOR GLENN JACOBS

Procurement Division, 1000 N. Central Street, Suite 100, Knoxville, TN 37917

**PROCUREMENT DIVISION
ADDENDUM I
BID NUMBER 3545
HOME REHAB PROGRAM WORKORDER 2022CN0048 FOR CAC**

ADDENDUM DATE: March 14, 2024

BUYER: Robert Mackey

PAGES: 28 (Twenty-Eight) Total Pages

BID OPENING DATE: March 21, 2024 at 10:00 AM

ADDITIONAL INFORMATION:

Add Lead-Based Paint Inspection/Risk Assessment Report.

End of Addendum I

Handwritten signature of Donnie Fawver II.

**Donnie Fawver, II
Senior Buyer
Knox County Government**

This addendum is issued from the Knox County Procurement Division, Suite 100, 1000 North Central Street, Knoxville, TN 37917. The telephone number is (865) 215-5777 and the fax number is (865) 215-5778.

Lead-Based Paint Inspection/Risk Assessment Report

FOR PROPERTY OWNED BY AND LOCATED AT:

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Report Date: December 22, 2023



PREPARED BY:

[REDACTED]

Knox County Home Rehabilitation Program

P.O. Box 1650

Knoxville, TN 37950

(865) 244-3080

Executive Summary

As a result of the Lead-Based Paint (LBP) Inspection and Risk Assessment originally conducted on June 8, 2022, it was determined that lead-based surface coatings (paint) and lead hazards were present at the subject property as of the date of this report. Additional Dust Wipes and Soil Samples were taken on December 15, 2023. The analytical results from the Inspection and Risk Assessment efforts identified LBP and LBP hazards as defined by the EPA and/or HUD standards.

Information and Purpose of Inspection and Risk Assessment

A LBP Inspection and Risk Assessment was conducted at [REDACTED] on June 8, 2022 and December 15, 2023. The inspection/ risk assessment was conducted for the Knox County Home Rehabilitation Program. The objective of a LBP Inspection/Risk Assessment is to determine the existence, nature, severity, and location of lead-based paint and lead-based paint hazards. The provisions of this report by the Risk Assessor, explain the results of the investigation and options for reducing or eliminating LBP hazards. Based upon conversations with the property owner and/or occupant(s), to the knowledge of this Assessor, there has not been any previous LBP testing within the last year at this property.

As part of the assessment, a visual survey of the property and structure was conducted, dust wipe sampling was performed on a number of interior surfaces, and composite soil samples were collected. In addition, on-site paint testing using an x-ray fluorescence (XRF) lead analyzer (Niton Model # XLP-300A / Serial # 20400) was performed.

Site Information and Field Testing

The property is a single family, one story home over a crawl space. It has 1 bedroom, living room, kitchen, sitting room, den, laundry and 1 bathroom. According to Knox County property assessor records, the house was built in 1950. The interior walls are mixture of both drywall and wood paneling. The exterior is vinyl siding with a non-exposed masonry foundation. The exterior lot is partially covered by grass with several bare areas.

Resident Questionnaire and Building Condition Form

The following questionnaires were completed as part of the risk assessment process to help the risk assessor identify particular use patterns and conditions of various building components, which may be associated with potential LBP hazards, such as opening and closing doors and/or windows painted with LBP. The following is a summary of the information obtained during that interview.

Form 5.0 Questionnaire for a Lead Hazard Risk Assessment of an Individual Occupied Dwelling Unit.

(Page 1 of 2)

(To be completed by risk assessor via interview with owner-occupant or, if a rental unit, an adult resident and, for questions 15 & 16, the owner.)

Property address [REDACTED]

Apt. No. _____ Unit is Owner occupied Renter occupied

Year of construction 110 Prior LBP testing? Yes No

Name of owner interviewed [REDACTED] Owner interview date 07/08/2006

Name of resident interviewed (if rental unit) _____ Interview date: ___/___/___

Name of risk assessor [REDACTED]

Children and Children's Habits

1. Do any children under age 6 live in the home or visit frequently? Yes No
(If no children under age 6, skip to Question 5.)
2. If yes, how many? _____
3. Please provide the following information about each child under 6 to the extent you can.

	Child 1	Child 2	Child 3	Child 4
(a) Age:				
(b) Blood lead level:				
(c) Month/year of blood lead test:				
(d) Location of bedroom:				
(e) Main room where child eats:				
(f) Main room where child plays:				
(g) Main room where toys are stored:				
(h) Main locations where child plays outdoors:				

(If a resident child under age 6 has had an elevated blood lead level, an environmental investigation may be necessary (see Chapter 16 of the HUD Guidelines).)

4. (a) Do any children tend to chew on any painted surfaces, such as interior window sills? Yes No
- (b) If yes, where? _____

**Form 5.0 Questionnaire for a Lead Hazard Risk Assessment
of an Individual Occupied Dwelling Unit.**

(Page 2 of 2)

Property address [REDACTED] Apt. No. _____

Other Household Information and Family Use Patterns

5. Do women of child-bearing age live in the home? Yes No
6. If this home is in a building with other dwelling units, what common areas in the building are used by children?

7. (a) Which entrance is used most frequently? Front
 (b) What other entrances are used frequently? _____

8. Which windows are opened most frequently? None

9. (a) Do you use window air conditioners? Yes No
 (b) If yes, where? Den

*Condensation underneath window air conditioners often causes paint deterioration.

10. (a) Do you or any other household members garden? Yes No
 (b) If yes, where is the garden? _____

11. (a) Are you planning any landscaping activities that will remove grass or ground covering? Yes No
 (b) If yes, where? _____

12. (a) Which areas of the home get cleaned regularly? Kitchen
 (b) Which areas of the home do not get cleaned regularly? _____

13. (a) Are any household members exposed to lead at work? Yes No
 (If no, go to question 14.)
 (b) If yes, are dirty work clothes brought home? Yes No
 (c) If they are brought home, who handles dirty work clothes and where are they placed and cleaned?

14. (a) Do you have pets? Yes No
 (b) If yes, do these pets go outdoors? No

Building Renovations

15. (a) Were any building renovations or repainting done here during the past year? Yes No
 (b) If yes, what work was done, and when? _____
 (c) Were carpets, furniture and/or family belongings present in the work areas? Yes No
 (d) If yes, which items and where were they? _____
 (e) Was construction debris stored in the yard? Yes No
 (f) If yes, please describe what, where and how was it stored. _____
16. (a) Are you conducting or planning any building renovations? Yes No
 (b) If yes, what work will be done, and when? _____

Form 5.1 Building Condition Form for Lead Hazard Risk Assessment.

Property address _____ Apt. No. _____
 Name of property owner _____
 Name of risk assessor _____ Date of assessment: 07 / 08 / 2021

Condition	Yes	No	Comments
Roof missing parts of surfaces (tiles, boards, shales, etc.)		<input checked="" type="checkbox"/>	
Roof has holes or large cracks		<input checked="" type="checkbox"/>	
Gutters or downspouts broken		<input checked="" type="checkbox"/>	
Chimney masonry cracked, bricks loose or missing, obviously out of plumb		<input checked="" type="checkbox"/>	
Exterior or interior walls have obvious large cracks or holes, requiring more than routine pointing (if masonry) or painting		<input checked="" type="checkbox"/>	
Exterior siding has missing boards or shingles	<input checked="" type="checkbox"/>		
Water stains on interior walls or ceilings		<input checked="" type="checkbox"/>	
Walls or ceilings deteriorated		<input checked="" type="checkbox"/>	
More than "very small" amount of paint in a room deteriorated		<input checked="" type="checkbox"/>	
Two or more windows or doors broken, missing, or boarded up	<input checked="" type="checkbox"/>		
Porch or steps have major elements broken, missing, or boarded up		<input checked="" type="checkbox"/>	
Foundation has major cracks, missing material, structure leans, or visibly unsound		<input checked="" type="checkbox"/>	
** Total number	<u>1</u>	<u>12</u>	

* 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).

** If the "Yes" column has any checks, the dwelling is usually considered not to be in good condition for the purposes of a risk assessment, and conducting a lead hazard screen is not advisable. However, specific conditions and extenuating circumstances should be considered before determining the final condition of the dwelling and the appropriateness of a lead hazard screen. If the "Yes" column has any checks, and a lead hazard screen is to be performed, describe, below, the extenuating circumstances that justify conducting a lead hazard screen.

Notes (including other conditions of concern):

Paint Condition

The EPA and HUD have provided a specific definition for the term "deteriorated paint". Deteriorated paint is defined as "any interior or exterior paint or other coating that is peeling, chipping, chalking, or that is otherwise damaged or separated from the substrate." This definition is most typically associated with surface conditions only. Usage of this term in describing conditions other than those associated with surface coatings are not known to be defined by EPA or HUD.

Paint Sampling and Testing

LBP testing conforming to the HUD 2012 Guidelines was accomplished at this property on all surfaces. No paint chips were taken. A total of 94 tests (assays) were taken at a number of specified surfaces on both the interior and exterior of the dwelling using an x-ray fluorescence analyzer. Lead concentrations that meet or exceed the HUD published levels identified as being potentially dangerous are listed in the chart below.

Account No.	Type	Balance	Unit	Acquisition	Component	Location	Year	Category	Sub	Project	Phase	Amount	Rate	Value	Rate	Value
1	N/2121212121	1.00	sq. ft.	1/1/72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
2	N/2121212121	1.00	sq. ft.	1/1/72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
3	N/2121212121	1.00	sq. ft.	1/1/72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
4	N/2121212121	1.00	sq. ft.	1/1/72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
5	N/2121212121	1.00	sq. ft.	1/1/72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
6	N/2121212121	1.00	sq. ft.	1/1/72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
7	N/2121212121	1.00	sq. ft.	1/1/72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
8	N/2121212121	1.00	sq. ft.	1/1/72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
9	N/2121212121	1.00	sq. ft.	1/1/72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
10	N/2121212121	1.00	sq. ft.	1/1/72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

Case No.	Case Name	Case Type	Case Status	Case Date	Case Amount	Case Balance	Case Interest	Case Penalty	Case Total	Case Days	Case Months	Case Years
1	WOOD A	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	WOOD B	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	WOOD C	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	WOOD D	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	WOOD E	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	WOOD F	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	WOOD G	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	WOOD H	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	WOOD I	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	WOOD J	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	WOOD K	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	WOOD L	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	WOOD M	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	WOOD N	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	WOOD O	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	WOOD P	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	WOOD Q	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	WOOD R	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	WOOD S	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	WOOD T	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	WOOD U	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	WOOD V	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	WOOD W	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	WOOD X	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	WOOD Y	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	WOOD Z	NEGATIVE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Interior Dust Sampling

A total of 11 single surface dust wipes were collected in an effort to help determine the levels of lead-containing dust on the interior window sills and interior floor surfaces. These dust samples were collected from areas most likely to be lead-contaminated if lead-in-dust is present. These samples were collected in accordance with the requirements of ASTM Standard E-1728, Standard Practice for Field Collection of Settled Dust Samples Using Wipe Sampling Methods for Lead Determination by Atomic Spectrometry Techniques. While the EPA, HUD, and the State of Tennessee define the levels of leaded dust to be considered hazardous, HUD's Office of Lead Hazard Control & Healthy Homes has reduced the threshold and defined the following as action levels for leaded dust in dwellings:

- Floors ≥ 10 $\mu\text{g}/\text{sf}$
- Window Sills ≥ 100 $\mu\text{g}/\text{sf}$



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer Knoxville-Knox County CAC (4379)
Address PO Box 51650
Knoxville, TN 37950

Order #: 544239

Matrix Wipe
Received 12/20/23
Analyzed 12/21/23
Reported 12/21/23

Project Knox County Home Rehab Program
Location
Number 2022CN0048

Table with columns: Sample ID, Cust. Sample ID, Location Method, Sample Date Area, Total, Conc., RL*. Rows include sample IDs 544239-001 through 544239-011 with corresponding location and concentration data.

Minimum Total Reporting Limit: 5.0 µg/wipe. All internal QC parameters were met. Unusual sample conditions, if any, are described. Do not reproduce this report except in full. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results apply to the sample as received. AIHA LAP, LLC accredited for Lead (Lab ID 100527).



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer Knoxville-Knox County CAC (4379)
Address PO Box 51650
Knoxville, TN 37950

Order #: 544239

Matrix Wipe
Received 12/20/23
Analyzed 12/21/23
Reported 12/21/23

Project Knox County Home Rehab Program
Location ~~XXXXXXXXXX~~
Number 2022CN0048

Sample ID	Cust. Sample ID	Location	Sample Date	Total	Conc.	RL*
Parameter		Method	Area			

Analyst SA
544239-12/21/23 04:27 PM

[Signature]
Reviewed By Daniel McKee
Analyst

EPA Lead Clearance as of 12/1/23

Location	Level	Unit
Floors	< 10.0	µg/ft2
Interior Window Sills	< 100	µg/ft2
Window Troughs	< 400	µg/ft2

HUD Lead Clearance as of 12/1/23

Location	Level	Unit
Interior Floors	< 10.0	µg/ft2
Porch Floors	< 40.0	µg/ft2
Interior Window Sills	< 100	µg/ft2
Window Troughs	< 100	µg/ft2

Minimum Total Reporting Limit: 5.0 µg/wipe. All internal QC parameters were met. Unusual sample conditions, if any, are described. Do not reproduce this report except in full. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results apply to the sample as received. AIHA LAP, LLC accredited for Lead (Lab ID 100527).



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

www.slabinc.com e-mail: info@slabinc.com

544239

V:15441544239

S 11

thawks 12/20/2023 10:41:44 AM
Federal Express 788185449089

Submitting Co. Knox County CAC
Lab Use- WO#
Acct# 4379
Phone # 865-244-3030
Fax # 865-244-3030
E-mail aaron.cate@cachousing.org

Project Name: Knox County Home Rehabilitation Program
Project Location:
Project Number: 10222CN0048
State Of Collection: TENNESSEE

Turn Around Time
Matrix / Sample Type (Select ONE)
Tests / Analytes (Select ALL that Apply)
Asbestos Air / Fiber Counts
Asbestos Bulk / Asb ID
Metals-Total Conc.

Table with 11 columns: Sample #, Date Sampled, Time Sampled, Sample Identification, Wiped Area, Type, Time, Flow Rate, Total Air Vol. Rows 1-11 with handwritten data.

Sampled by, Relinquished to lab by, NAME, SIGNATURE, DATE/TIME, Sample return requested, Ambient temp, Ice, pH, CI, TR, TS, X

Soil Sampling

Two (2) composite soil samples were collected at this unit in accordance with the requirements of ASTM Standard E-1727, Standard Practice for Field Collection of Soil Samples for Lead Determination by Atomic Spectrometry Techniques. A composite sample is a sample containing soil from a stated number of locations mixed together to for a composite sample.

EPA has defined the following as hazardous levels for leaded soil:

- Play areas used by children under the age of 6 \geq 400 $\mu\text{g/g}$, or 400 ppm
- Other areas \geq 1,200 $\mu\text{g/g}$, or 1,200 ppm

Laboratory Information

Dust and soil samples were analyzed by Schneider Laboratories Global Inc. located at 2512 West Cary Street, Richmond, VA 23220, (804) 353-6778. Schneider Labs has fulfilled the requirements of the AIHA Lab Accreditation Program (AIHA-LAP) LLC accreditation to the ISO/IEC 17025:2005 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in Industrial Hygiene, Environmental Lead and Environmental Microbiology.



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Knoxville-Knox County CAC (4379)
Address: PO Box 51650
Knoxville, TN 37950

Order #: 544238

Matrix: Soil
Received: 12/20/23
Analyzed: 12/20/23
Reported: 12/20/23

Attn:
Project: Knox County Home Rehab Program
Location: [REDACTED]
Number: 2022CN6048

PO Number:

Sample ID	Cust. Sample ID	Location	Sample Date	Weight			
Parameter		Method		Total µg	% / Wt.	Conc.	RL*
544238-001	1	A Side & B Side	12/15/23	1040 mg			
Lead		EPA 7000B		36.4 µg	0.00351 %	35.1 mg/kg	9.65 mg/kg
544238-002	2	C Side & D Side	12/15/23	1070 mg			
Lead		EPA 7000B		120 µg	0.0112 %	112 mg/kg	9.32 mg/kg

Analyst: SA
544238-12/20/23 03:33 PM

Kelly Muncy

Reviewed By: Kelly Muncy
Manager

EPA Lead in Residential Soil as of 12/1/23

Location	Level	Unit
Play Areas	400	mg/kg
Bare Soil Average	1200	mg/kg

Minimum reporting limit: 10.0 µg. EPA does not distinguish between lead-contaminated soil and soil-lead hazards. All internal QC parameters were met. Unusual sample conditions, if any, are described. Do not reproduce this report except in full. Values are reported to three significant figures. PPM = mg/kg | PPB = µg/kg. The test results apply to the sample as received. AIHA LAP, LLC accredited for Lead (Lab ID 100527).



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

www.slabin.com e-mail: info@slabin.com

WO Lab

544238

V:544\544238

thawks 12/20/2023 10:41:44 AM
Federal Express 788185449089

S 2

Submitting Co. **Knox County CAC** Lab Use-WO # **4379** Phone # **865-244-3030**
 P.O. BOX 1831 Adept # **4379** Fax # & E-mail **865-244-3030**
KNOXVILLE, TN 37901 **aaron.cate@cachousing.org**

Project Name: **Knox County Home Rehabilitation Program** Special Instructions *[include requests for special reporting or data packages]*
 Project Location: **[REDACTED]** Please email results to **aaron.cate@cachousing.org**
 Project Number: **1022CN 6048** in addition to **stephanie.courtney@cachousing.org**
 PO Number: State Of Collection **TENNESSEE**

Turn Around Time
 2 hours*
 Same day*
 1 business day*
 2 business days*
 3 business days*
 5 business days*
 Full TCLP (10d)
 Weekend*
 *not available for all tests
 Schedule rush organics, multi-metals & weekend tests in advance.

Matrix / Sample Type (Select ONE)
All samples on form should be of SAME matrix type. Use additional forms as needed.
 Air Solid
 Aqueous Waste
 Bulk Wastewater
 Hi-Vol Filter (PM10) Water, Drinking
 Hi-Vol Filter (TSP) Compliance
 Oil Wipe
 Paint Wipe, Composite
 Sludge Soil

Tests / Analytes (Select ALL that Apply)
Asbestos Air / Fiber Counts
 PCM (NIOSH 7400)
 TEM (AHERA)
 TEM (EPA Level II)
 Miscellaneous Tests
 Total Dust (NIOSH 0500)
 Resp. Dust (NIOSH 0800)
 Silica - FTIR (NIOSH 7602)
 Silica - XRD (NIOSH 7500)
Asbestos Bulk / Asb ID
 PLM (EPA 600/R-93/116)
 PLM (EPA Point Count)
 PLM (Qualitative only)
 NYELAP 198.11.41.5
 CAELAP (EPA Interim)
 TEM (Chatfield)
FOR ASBESTOS AIR:
 TYPE OF RESPIRATOR
 USED:

Metals-Total Conc.
 Lead
 RCRA Metals
 Metals-Extract
 TCLP / Lead
 TCLP / RCRA Metals
 TCLP / Full (w/ organics)
 Others

Sample #	Date Sampled	Time Sampled	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wiped Area (ft ²)	Type ¹ A,B,P,E	Time ²		Flow Rate ³		Total ⁴ Air Vol
						Start	Stop	Start	Stop	
1	12/15/23	3:30	A side + B side							
2	12/15/23	3:40	C side + D side							

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters (time in min * flow in L/min)

Sampled by: **[REDACTED]** Relinquished to lab by: **[REDACTED]**
 NAME: **[REDACTED]** NAME: **[REDACTED]**
 SIGNATURE: **[REDACTED]** SIGNATURE: **[REDACTED]**
 DATE/TIME: **12/15/23 3:45 pm** DATE/TIME: **12/15/23 3:45 pm**

Sample return requested Ambient temp Ice °C pH Cl R S X
 FX UPS USM HD DB
 WB: _____

Chain of Custody documentation continued informally within lab. Terms and conditions page 2.

Lead Hazards Identified

“Lead Hazard” is any condition that causes exposure to lead from lead-contaminated dust, lead-contaminated soil, or leaded paint that is present in accessible surfaces, friction surfaces, or impact surfaces that would result in adverse health effects.

“Deteriorated Paint” is dried paint that is showing signs of chipping, cracking, flaking, peeling, or otherwise damaged or separating from the substrate that it was applied to.

“Friction Surfaces” are areas where two surfaces are subject to abrasion and may be associated with elevated lead dust levels such as window sill and troughs.

“Impact Surfaces” are areas with damaged paint due to other building components striking them thus damaging the paint. The damaged paint releases from the substrate it was intended to protect, and may be found in areas such as doors.

“Chewable Surfaces” are areas easily accessed by small children with evidence of teeth marks.

Lead-Based Paint in “Intact” condition is not considered a hazard.

Special Cleaning Preceding Lead Hazard Control Activities

Before any lead hazard control activities begin, the structure and site must be inspected and pre-cleaned following HUD specified cleaning protocols, as detailed in the 2012 HUD Guidelines for the Evaluation and Control of LBP Hazards in Housing (Chapter 14), published by the U.S. Department of Housing and Urban Development. Some of the required steps include removing large debris and paint chips followed by the HEPA vacuuming all horizontal surfaces (floors, windowsills, troughs, etc.).

Existing Lead-Based Paint Hazards

The XRF results from some of the deteriorated paint that was tested showed that LBP hazards do exist, as defined in the Residential LBP Hazard Reduction Act of 1992 (Title X) and as defined by the Environmental Protection Agency (EPA) regulation published in the January 5, 2001 Federal Register. The XRF results indicate that lead levels above EPA and/or HUD criteria do exist.

Lead Hazard Control Options

Lead-safe work practices and worker/occupant protection practices complying with current EPA, HUD, and OSHA standards will be necessary to safely complete all work involving the disturbance of LBP coated surfaces and components. In addition, any work considered Lead Hazard Control will enlist the use of interim controls and/or abatement methods. It should be noted all lead hazard control activities have the potential of creating additional hazards, or even creating hazards that were not present before. All persons and/or firms performing lead hazard control activities must have received proper training in the lead abatement worker and/or lead abatement supervisor disciplines. Details for the lead hazard control options and occupant/worker protection practices can be found in: Guidelines for the Evaluation and Control of LBP Hazards in Housing (2012 Edition, Chapters 8 & 9) published by HUD, as well as in the Occupational Safety and Health Administration (OSHA) regulations found in 29 CFR, Part 1926.62, known as the “OSHA Lead Exposure in Construction Industry Standard”.

Interim Controls – as defined by HUD, means a set of measures designated to temporarily reduce human exposure to LBP hazards and/or lead containing materials. These activities include, but are not limited to: component and/or substrate repairs, paint and varnish repairs, the removal of leaded dust hazards, renovation, remodeling, maintenance, temporary containment, placement of seed, sod, or other forms of vegetation over bare soil areas, the placement of at least six inches of an appropriate mulch material over an impervious material laid on top of bare soil areas, the tilling of bare soil areas, extensive and specialized cleaning and ongoing LBP maintenance activities.

Abatement – as defined by HUD, means any set of measures designed to permanently eliminate LBP and/or LBP hazards. The product manufacturer and/or contractor must warrant abatement methods to last a minimum of twenty (20) years, or these methods must have a designed life span of at least twenty (20) years. These activities include, but are not limited to: the removal of LBP from substrates and components, the replacement of components of fixtures with lead containing materials and/or lead containing paint, the permanent enclosure of LBP with construction materials, the encapsulation of LBP with approved products, the removal or permanent covering (concrete or asphalt) of soil-lead hazards and extensive and specialized cleaning activities.

Untested Suspected/Potential Lead Hazards

The following areas/items were not tested during the inspection process and have the possibility of being coated with lead-based paint that is deteriorated and currently presenting a lead hazard. If lead hazard control work takes place, lead-safe work practices will need to be implemented during the project to ensure that lead hazards are not created.

LOCATION	COMPONENT	COMMENT	COLOR

Lead Hazard Control Options

HAZARD #	LEAD HAZARD DESCRIPTION	LEAD HAZARD CONTROL MEASURE	ESTIMATED COST
1	Low Dust	Low Dust Provide occupants protection and work site preparation in accordance with Table 8.1 of the 2012 HUD Guidelines for Evaluation Control of Lead-Based Paint Hazards in Housing.	[REDACTED]
2	CLEAN TO CLEARANCE	Clean to Clearance After completion of all lead hazard reduction activities, wet mist, fold and remove all containment polyethylene sheeting. HEPA vacuum all visible surfaces including walls, floors, ceilings and window troughs from the top down. Detergent scrub all horizontal surfaces in small sections using a 3-bucket system, changing rinse water every 250 SF. Completely rinse with clean water and new equipment. After surfaces are dry, HEPA vacuum all visible surfaces except ceiling. - -	[REDACTED]
3	Stabilize-Interim Control	INTERIOR CASSED OPENING DOORWAY - STABILIZE-KITCHEN-SITTING ROOM After establishing any required floor containment with polyethylene sheeting, mist deteriorated paint with water to the point of saturation. Wet scrape door, frame, jambs and trim on both sides with curved draw scrapers. Feather edges with a wet, 100-grit sponge sanding block. Detergent wash, rinse, allow to dry and HEPA vacuum any paint chips, dust and debris. Spot prime and apply two coats with owner's choice of premium acrylic latex.	[REDACTED]

Ongoing Monitoring

Ongoing monitoring is necessary in all dwellings in which LBP is known or presumed to be present. At these dwellings, the very real potential exists for LBP hazards to develop. Hazards can be developed by means such as, but not limited to: the failure of lead hazard control measures; previously intact LBP becoming deteriorated; dangerous levels of lead-in-dust re-accumulating through friction, impact, and deterioration of paint; or, through the introduction of contaminated exterior dust and soil into the interior of the dwelling. Ongoing monitoring typically includes two different activities: re-evaluation and annual visual assessments. A re-evaluation is a risk assessment that includes limited soil and dust sampling and a visual evaluation of paint films and any existing lead hazard controls. Re-evaluations are supplemented with visual assessments by the client, which should be conducted at least once a year,

when the client or its management agent (if the unit is rented) receives complaints from residents about deteriorated paint or other potential lead hazards, when the residence (if a rental unit) has occupant turnover/vacancy, or when significant damage occurs that could affect the integrity of lead hazard control treatments (e.g., fire, flood, vandalism). The visual assessment should cover the entire dwelling unit, exterior painted surfaces, and ground cover. Visual assessments should confirm that all paint with known or suspected LBP is not deteriorating, that the lead hazard control methods have not failed, and that structural problems do not threaten the integrity of any remaining known, presumed or suspected LBP.

The visual assessment do not replace the need for professional re-evaluations by a certified risk assessor. The re-evaluations should include:

1. A review of prior reports to determine where lead-based paint and lead-based paint hazards have been found, what controls were done, and when these findings and controls took place;
2. A visual assessment to identify deteriorated paint, failures of previous hazard controls, visible dust and debris, and bare soil;
3. Environmental testing for lead in dust, newly deteriorated, and newly bare soil; and
4. A report describing the findings of the re-evaluation, including the location of any lead-based paint hazards, the location of any failures of previous hazard controls, and, as needed, acceptable options for the control of hazards, the repair of previous controls, and modification of monitoring and maintenance practices.

Hazard control options and associated cost estimates for the areas or components identified with LBP or lead hazards are also discussed later in this report in an effort to aid in the interpretation of the listed findings a glossary of terms and a list of publications and resources addressing lead hazards and their health effects are included at the end of this report.

The first re-evaluation should be conducted no later than one year after completion of the lead hazard controls, or, if specific controls or treatments are not conducted, two years from the beginning of ongoing lead-based paint monitoring and maintenance activities. Subsequent reevaluations should be conducted at intervals of two years, plus or minus 60 days.

Disclosure Regulations


A copy of this complete report must be made available to new lessees (tenants) and/or must be provided to purchasers of this property under Federal law before they become obligated under any future lease or sales contract transactions (Section 1018 of Title X – found in 24 CFR Part 35 and 40 CFR Part 745), until the demolition of this property. Landlords and/or sellers are also required to distribute an educational pamphlet developed by the EPA entitled “Protect Your Family From Lead in Your Home” and include standard warning language in their lease or sales contracts to ensure that parents have the information they need to protect their children from LBP hazards.

Conditions & Limitations

Staff of Knox County and/or Knoxville-Knox County C.A.C. has performed the tasks listed above requested by the client in a thorough and professional manner consistent with commonly accepted

standard industry practices, using state of the art practices and best available known technology, as of the date of the assessment. Knox County and/or Knoxville-Knox County C.A.C. cannot guarantee and does not warrant that this assessment has identified all adverse environmental factors and/or conditions affecting the subject property of the date of the assessment. Knox County and/or Knoxville-Knox County C.A.C. cannot and will not warrant that the assessment that was requested by the client will satisfy the dictates of, or provide a legal defense in connection with, any environmental laws or regulations. It is the responsibility of the client to know and abide by all applicable laws, regulations, and standards including EPA's Renovation, Repair, and Painting regulation.

The results reported and conclusions reached by Knox County and/or Knoxville-Knox County C.A.C. are solely for the benefit of the client. The results and options in this report, based solely upon the conditions found on the property as of the date of the assessment, will be valid only as of the date of the assessment. Knox County and/or Knoxville-Knox County C.A.C. assumes no obligation to advise the client of any changes in any real or potential lead hazards at this residence that may or may not be later brought to our attention.



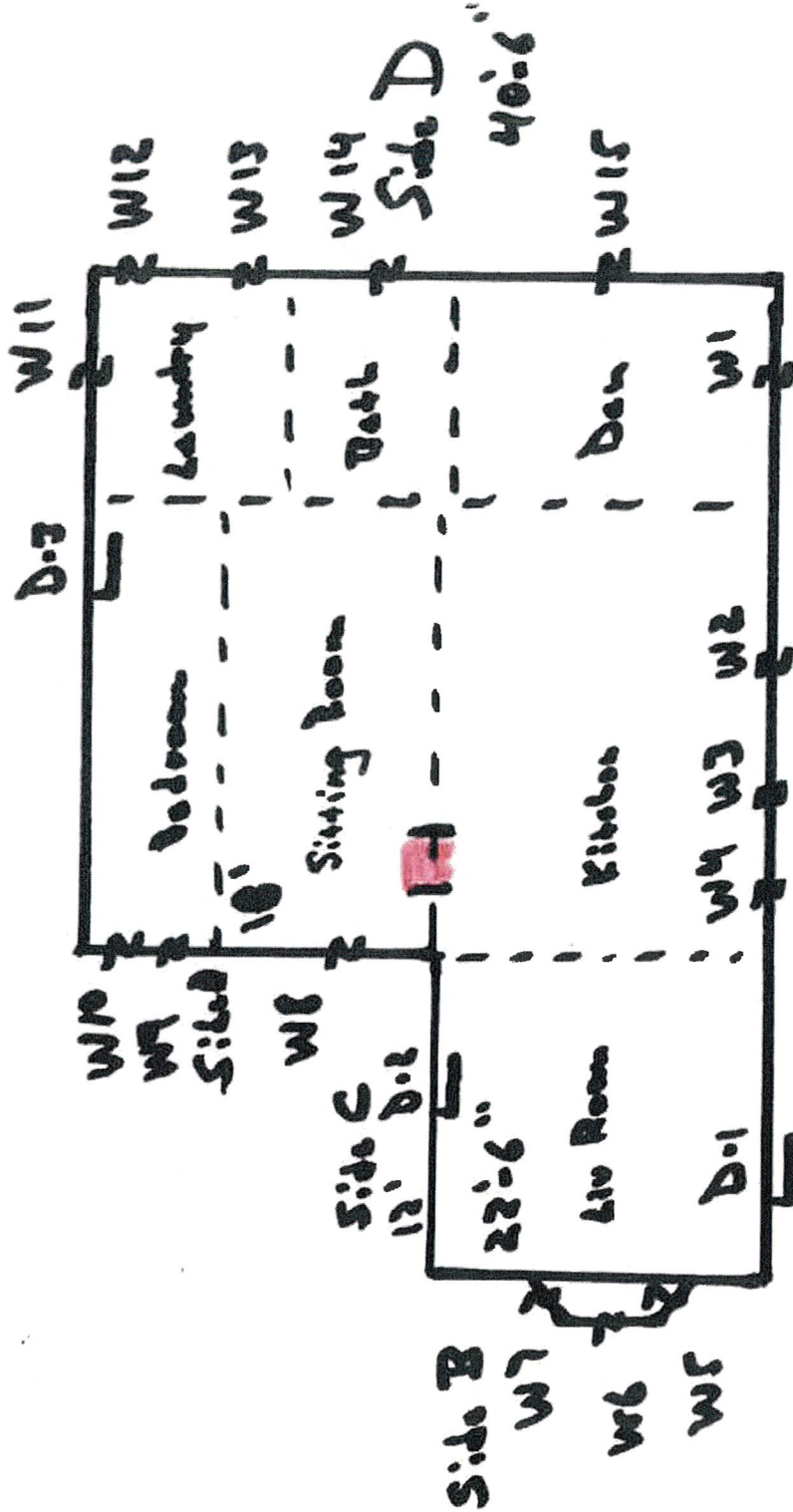
Risk Assessor Signature

December 22, 2023

Date

CN0048

Side C



Side A 45'



EXTERIOR SIDE A



EXTERIOR SIDE B-1



EXTERIOR SIDE B-2



EXTERIOR SIDE C



EXTERIOR SIDE D



SITTING ROOM 1



SITTING ROOM 2



LIVING ROOM



KITCHEN 1



KITCHEN 2



LAUNDRY ROOM



DEN



BATHROOM



BEDROOM



CASED OPENING

THE STATE OF TENNESSEE



By virtue of the certification requirements in Rule Chapter 1200-01-16
Knoxville - Knox Co. CAC, Housing & Energy Services

T O HAS 31830
Knoxville, TN 37904

Is hereby certified as a lead-based paint activity firm:

1111 N. ...
P.O. Box ...
Knoxville, TN 37904
Phone: 615-269-1947-4798R 6/30/2018 5/29/2021

Under the Seal of the State of Tennessee

This 03 day of October 2018

Department of Environment and Conservation

FIRM LICENSE

Phase One Consultants, LLC

www.phaseoneconsultants.com
1111 N. ...
A State of Tennessee accredited training provider for the purpose of certification under
T.C.A. §§ 21-1-401 and 25-2-1402.
Accreditation Date: May 2, 2023
Accreditation Number: PPN-2005-189-8319

Certifies that

Attended and Satisfactorily Completed with a Passing Score of 94%
EPA Model Initial Lead Paint Inspector Training

Continuing
Education

Location of Training: 2247 Western Ave, Knoxville, TN 37921

Certificate Number: P1C-1025 ID Number: 1219 Exam Date: June 7, 2023 Expiration Date: June 7, 2024

Kenneth Baker
Training Manager & Principal Instructor

INSPECTOR CERTIFICATION

THE STATE OF TENNESSEE

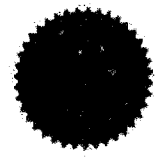


By virtue of the certification requirements in Rule Chapter 1200-01-18

4701 Asheville Highway Apt D2
Knoxville, TN 37914

Is hereby certified to conduct lead-based paint activities in the discipline(s) of:

Discipline	Type	Verification	Effective	Expires
Risk Assessor	Initial (3 Year)	11P-RA-701192-113097	7/24/2023	7/31/2026
Inspector	Initial (2 Year)	LBP-I-201302-131096	7/24/2023	3/1/2026



Under the Seal of the State of Tennessee

This 10 day of August 2023

Department of Environment and Conservation

STATE LICENSE

Phase One Consultants, LLC

www.phaseoneconsultants.com
1111 N. ...
A State of Tennessee accredited training provider for the purpose of certification under
T.C.A. §§ 21-1-401 and 25-2-1402.
Accreditation Number: PPN-2005-189-8319R

Certifies that

Attended and Satisfactorily Completed with a Passing Score of 92%
EPA Model Initial Lead Paint Risk Assessor Training

Continuing
Education

Location of Training: 2247 Western Ave, Knoxville, TN 37921

Certificate Number: P1C-1025 ID Number: 1219 Exam Date: June 7, 2023 Expiration Date: June 7, 2024

Kenneth Baker
Training Manager & Principal Instructor

RISK ASSESSOR CERTIFICATION



LABORATORY CREDENTIALS

Performance Characteristic Sheet

EFFECTIVE DATE: September 24, 2004 **EDITION NO.:** 1
MANUFACTURER AND MODEL:
 Make: XRF LLC
 Model Number: XRF-200
 Serial: 00001
 Note: This XRF is a SAs applicable to the standard mode operation. It is not applicable to the standard mode operation. It is not applicable to the standard mode operation. It is not applicable to the standard mode operation.

Note: The XRF and AEC values refer to the shape of the handle port of the instrument. The dimensions of the handle port of the instrument are 10.0 inches in length and 1.0 inch in diameter. The handle port of the instrument is 10.0 inches in length and 1.0 inch in diameter. The handle port of the instrument is 10.0 inches in length and 1.0 inch in diameter.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS
 Lead: 1000 ppm (range 0-10000 ppm)

XRF CALIBRATION CHECK LIMITS

If the calibration of the instrument is found to be out of tolerance, the instrument should be recalibrated. The instrument should be recalibrated using the standard material provided. The instrument should be recalibrated using the standard material provided. The instrument should be recalibrated using the standard material provided.

SUBSTRATE CORRECTION:
 For XRF results using Lead, Cadmium, and Arsenic, substrate correction is not needed. For XRF results using Lead, Cadmium, and Arsenic, substrate correction is not needed. For XRF results using Lead, Cadmium, and Arsenic, substrate correction is not needed.

INCLUSIVE RANGE OF THRESHOLD:

XRF MODE	SUBSTRATE	THRESHOLD (ppm)
Standard	Soil	10
Standard	Concrete	10
Standard	Asphalt	10
Standard	Rebar	10
Standard	Rock	10
Standard	Wood	10

XRF DEVICE PCS- PAGE 1

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:
 This sheet is supplemental information to be used in conjunction with Chapter 7 of the I-10 Guidelines for the Calculation and Control of Lead-Based Paint Hazards in Housing (I-10 Guidelines). Performance characteristics shown on this sheet are based on the standard evaluation using standard testing procedures. Testing was conducted on August 2004 on 100 testing samples. The instrument was used to perform the testing and the instrument was calibrated on September 2004 with 100 ppm of Lead, Cadmium, and Arsenic standards of the XRF-200 instrument.

OPERATING PARAMETERS:
 Performance characteristics shown in this sheet are based only when properly operating the instrument in the standard mode. The instrument should be operated in the standard mode.

SUBSTRATE CORRECTION VALUE COMPUTATION:
 Substrate correction is not needed for lead, cadmium, and arsenic. Substrate correction is not needed for lead, cadmium, and arsenic. Substrate correction is not needed for lead, cadmium, and arsenic.

EVALUATING THE QUALITY OF XRF TESTING:
 Randomly select for testing representative lead-based paint samples from an arbitrary selected area. Randomly select for testing representative lead-based paint samples from an arbitrary selected area. Randomly select for testing representative lead-based paint samples from an arbitrary selected area.

1. Determine XRF results for the original and repeat XRF readings. Do not correct the results for any substrate correction.
2. Calculate the average of the original and repeat XRF results for each testing location.
3. Square the average for each testing location.
4. Add the three squares together. Call this quantity "A".
5. Multiply the number of readings by "A".
6. Add the number of readings by "A".
7. Take the square root of the quantity "A".
8. Multiply by 1.5. This is the field use error limit.
9. Compare the average of all original XRF results.
10. Compare the average of all original XRF results.
11. Find the absolute difference of the two averages.

XRF DEVICE PCS - PAGE 2