



# Lead-Based Paint Inspection Report

Prepared for:

## **AEI Consultants**

1525 Huguenot Road, Suite 202  
Midlothian, Virginia 23113

Property:

## **Northgate Terrace**

4301 Whittle Springs Road  
Knoxville, Tennessee 37917

**Inspection Dates:** June 14-16, 2021

**Report Date:** June 22, 2021

Lead Inspector:

A handwritten signature in black ink that reads "Jeffrey Partlow".

**Jeffrey Partlow**

Tennessee Lead Risk Assessor #TNLBP2002-876-7669R

OSE Project #21-1178

## TABLE OF CONTENTS

### Executive Summary

- 1.1 Introduction
- 1.2 Summary of Lead-Based Paint Inspection and Visual Assessment  
Table - Inspection and Visual Assessment Summary
- 1.3 Property-wide Locations of Building Components with Lead-Based Paint
- 1.4 Summary of Regulatory Requirements and Recommendations
- 1.5 Lead Disclosure Requirements

### LEAD-BASED PAINT INSPECTION REPORT

- 2.1 Overview of the Evaluation
  - 2.1.1 Introduction
  - 2.1.2 Description of Property
  - 2.1.3 Similar Groups of Buildings
  - 2.1.4 Random Selection Process
- 2.2 Lead Regulatory Levels  
Table 2 - Lead Regulatory Levels
- 2.3 Lead-Based Paint Inspection
- 2.4 Paint Condition Survey and Paint-Lead Hazards  
Table - HUD Definitions
  - 2.4.1 Paint Lead Hazards
- 2.5 Conditions and Limitations—DISCLAIMER

### APPENDICES

#### Appendix A: Property Information

- A-1: Site Specific Property Information
- A-2: Floor Plans
- A-3: Photographs

#### Appendix B: Summary of Random Selection of Units

- B-1: Random Selection Detail by Unit

#### Appendix C: XRF Sampling

- C-1: Component Type Report
- C-2: XRF Testing Results
- C-3: XRF Readings Positive for Lead
- C-4: Performance Characteristic Sheets

**Appendix D: Certifications, Licenses, and Accreditations**

- D-1: Lead-Based Paint Inspector/Risk Assessor's License/  
Certification/Information
- D-2: Firm Lead License
- D-3: Firm Radioactive Materials License

**Appendix E: Lead and Lead Safety Resource Data**

- E-1: Glossary
- E-2: Resources for Additional Information on Lead and Lead-Based  
Paint Hazards

## SECTION 1: EXECUTIVE SUMMARY

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### 1.1 INTRODUCTION

A lead-based paint (LBP) inspection was conducted between June 14-16, 2021, at Northgate Terrace, located at 4301 Whittle Springs Road, in Knoxville, TN 37917. The purpose of the inspection was to determine the presence and location of lead-based paint, as defined by Tennessee and the Environmental Protection Agency (EPA). Currently, the criteria for determining lead-based paint is 1.0 mg/cm<sup>2</sup>. The inspection was accomplished using an x-ray fluorescence (XRF) lead-in-paint analyzer in each selected dwelling unit, common area, and building exterior.

The information in this report must be disclosed to all existing and new residents and to any new buyer in the future, under the Lead Disclosure Rule (24 CFR part 35, subpart A (HUD's rule) and 40 CFR part 745, subpart F (EPA's identical rule)).

### 1.2 SUMMARY OF LEAD-BASED PAINT INSPECTION AND VISUAL ASSESSMENT

**The inspection determined that lead-based paint was present at the property on the date of the inspection.**

<b>Inspection &amp; Visual Assessment Summary</b>	
Lead-Based Paint Present	Yes
Deteriorated Lead-Based Paint above De Minimus Levels Present	Yes
Stabilize deteriorated paint. Unless all lead-based paint is removed, One Source Environmental, LLC recommends that the Owner implement or maintain an ongoing lead-based paint maintenance and re-evaluation program.	

### 1.3 PROPERTY-WIDE LOCATIONS OF BUILDING COMPONENTS WITH LEAD-BASED PAINT

In accordance with federal guidelines<sup>1</sup>, One Source Environmental, LLC tested a representative number of building components within the subject property for the presence of lead-based paint. Based on the results on this representative testing, One Source Environmental identified two (2) components that were considered to contain lead-based paint on a property-wide basis. The property-wide component is listed in the Table below.

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<sup>1</sup> HUD Guidelines for the Evaluation and Control of Lead Based Paint Hazards in Housing, Revised 2012.

Table 1 Building Components with Lead-Based Paint		
Area	Component	Substrate
Stairwell	Handrail	Metal
Exterior	Handrail	Metal

Within the table above, the following definitions apply: The “area” is the common location within the property (e.g., unit/apartment, office, common area, etc.); “components” are specific design or structural elements or fixtures of a building, residential dwelling, or child-occupied facility, that are distinguished from each other by form, function, and location; and the “substrate” is the building component material directly beneath the painted surface.

#### 1.4 SUMMARY OF REGULATORY REQUIREMENTS AND RECOMMENDATIONS

**Lead-based paint, as defined by EPA, was identified at the property.**

One Source Environmental, LLC recommends stabilization of deteriorated lead-based paint and ongoing monitoring and maintenance of components identified as containing lead-based paint to prevent deterioration of these components and possible development of lead-based paint hazards in the future.

#### 1.5 LEAD DISCLOSURE REQUIREMENTS

HUD and EPA regulations require the Owner to disclose the findings of this report to residents within a prescribed period, if lead-based paint is present. In addition, depending on the findings of the evaluation, an Owner may be required to conduct additional disclosure activities. Based on the findings of this evaluation, the following disclosure statement(s) apply:

**Lead-based paint, as defined by EPA, was identified at the property.**

The above disclosure statement, along with the information contained in Table 1, “Building Components with Lead-Based Paint”, must be provided to new lessees (residents) and purchasers of this property under Federal law (24 CFR part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract.

This complete report must be provided at no charge to new purchasers, and to new residents, upon request. Landlords (lessors) and sellers are also required to distribute an educational pamphlet approved by EPA, and to include standard warning language in their leases or sales contracts. The specific warning language can be found at 24 CFR part 35.92.

The HUD and EPA Disclosure regulations apply to the property until written certification is obtained from a state licensed lead-based paint inspector, stating that the property is lead-based paint free. The lead-based paint free certification must meet all regulatory guidelines established by HUD, EPA and the state.

This report should be kept by the inspector or the inspection firm, the Owner, and all future Owners for the life of the dwelling.

## **Section 2: Lead-Based Paint Inspection Report**

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### **2.1 OVERVIEW OF THE INSPECTION**

#### **2.1.1 Introduction**

A lead-based paint inspection and visual assessment was conducted at Northgate Terrace, a multifamily residential property located at 4301 Whittle Springs Road in Knoxville, TN 37917, between June 14-16, 2021. Mr. Jeffrey Partlow, a Tennessee licensed lead risk assessor (#TNLBP2002-876-7669R), conducted the inspection, which was performed using a Niton XLp300a, Serial #97671. Employee and firm certifications are found in Appendix D.

The information contained in this inspection report can be used to assist the Owner in ensuring that a lead-hazard free environment is maintained, by either: 1) developing a plan for eliminating lead-based paint from the property, or 2) establishing or maintaining an ongoing lead-based paint maintenance and re-evaluation program, if needed.

#### **2.1.2 Description of Property**

Northgate Terrace was reportedly constructed in 1969 and consists of two hundred and twenty-seven (227) units in one (1) – fourteen (14) story residential building. A total of two hundred and twenty-seven (227) similar dwelling units, common areas, and one (1) building exterior area were considered for evaluation.

#### **2.1.3 Similar Groups of Buildings**

If applicable, at the outset of this inspection, individual buildings were grouped into similar groups of buildings in accordance with the HUD Guidelines, Chapter 7. These buildings and exterior sites were grouped according to: 1) construction date, 2) construction type, and/or 3) written documentation or visual evidence of similar construction materials. This property consisted of only one (1) high rise apartment building.

#### **2.1.4 Random Selection Process**

Selection of the specific dwelling units and common areas to be tested was accomplished using the HUD-defined selection process specified in the HUD Guidelines, Chapter 7. The table provided in Section V, "Inspections in Multifamily Housing," identifies the number of building apartments and common areas that must be randomly sampled. A comprehensive table that provides all units randomly selected, as well as substitutes, is provided herein in Appendix B. Units removed from the random selection process, including an explanation as to why they were removed, are also identified in Appendix B.

Using the HUD Random Selection Criteria, a statistically valid subset of dwelling units and common areas was randomly selected as being representative of all units and areas on the entire property. Only the randomly selected units and common areas were tested for the presence of lead-based paint.

## 2.2 LEAD REGULATORY LEVELS

The lead regulatory levels provided in Table 3 below were used when preparing this lead-based paint evaluation and when evaluating data collected.

TABLE 2 LEAD REGULATORY LEVELS		
	EPA Levels	Tennessee Levels
Lead-Based Paint	1.0 mg/cm <sup>2</sup> or 0.5% by weight (or 5,000 ppm)	1.0 mg/cm <sup>2</sup> or 0.5% by weight (or 5,000 ppm)

## 2.3 LEAD-BASED PAINT INSPECTION

A lead-based paint inspection is an interior and exterior investigation to identify all lead-based paint on a surface-by-surface basis. This lead-based paint inspection was performed in accordance with HUD Guidelines in a total of twenty-seven (27) similar dwelling units, common areas and one (1) building exterior area.

The lead-based paint inspection was accomplished using an x-ray fluorescence (XRF) lead-in-paint analyzer in each selected dwelling unit and common area. The XRF analyzer is designed to measure the lead content of surface coatings on a variety of building surfaces, substrates, and components. The measurement is rapid, nondestructive, and according to the manufacturer, capable of detecting lead concentrations within numerous layers of various surface coatings. The results of the inspection apply to all similar buildings and dwelling units within a similar group of buildings throughout the entire property. See Appendix A for complete building information.

XRF testing was performed on random testing combinations, except for interior walls, where 1-4 readings were taken. A testing combination is characterized by the room equivalent, the component type, and the substrate. A room equivalent is an identifiable part of a residence or building (e.g., room, foyer, house exterior, etc.). In addition, Wall "A" or "1" in each room is the wall where the front entrance door opening is located (or aligned with street). Going clockwise and facing Wall "A" or "1", Wall "B" or "2" will always be to your right, Wall "C" or "3" directly to the rear and Wall "D" or "4" to the left. Doors, windows and closets are designated as left, center or right depending on their location on the wall.

One Source Environmental, LLC also conducted a visual assessment of all painted surfaces, as described below in Section 2.4.



**The results of the inspection indicate that lead-based paint was found on the property.**

As a general rule, care should be taken to maintain all paint intact and to minimize, contain, and clean up any dust generated from the disturbance of painted surfaces – even when paint has lead concentrations below the level the EPA and the State of Tennessee define as lead-based paint.

Please refer to Appendix C for detailed analytical testing results for each distinct area or unit inspected. The appendices provide complete testing data (XRF Testing Results), a summary of surfaces and components identified with lead-based paint coatings (XRF Summary – Readings Positive for Lead-Based Paint), and a distribution report detailing specific components or surfaces with lead-based paint (Component Type Report).

## 2.4 PAINT CONDITION SURVEY AND PAINT-LEAD HAZARDS

HUD and EPA define the terms *deteriorated paint*, *intact paint*, and *de minimis (small or minimal) levels* when these terms are used to describe surface coating conditions. To aid in the interpretation of the paint condition information, please refer to the following HUD definitions and criteria for specific interior and exterior surfaces.

HUD Definitions		
Building Component(s)	Intact Paint	<i>De minimis (small or minimal) Levels of Deteriorated Paint</i>
Exterior components with large surface areas (siding, etc.)	Entire surface is intact	Deteriorated paint on less than or equal to 20 square feet (ft <sup>2</sup> ) of exterior surfaces
Interior components with large surface areas (walls, ceilings, etc.)	Entire surface is intact	Deteriorated paint is observed at less than or equal to 2 ft <sup>2</sup> of surface in any one interior room or space
Component types with small surface areas (soffits, baseboards, trim, etc.)	Entire surface is intact	Deteriorated paint is observed at less than or equal to 10% of the total surface area of a component type with a small surface area
<i>Note: See 24 CFR 35.1350(d)(1)-(3) for complete information on de minimis (small or minimal) levels.</i>		

*Deteriorated paint* is defined 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.”

HUD uses the phrase “significant deterioration” to refer to deterioration greater than *de minimis* levels.

Paint conditions and exact locations of paint deterioration for specific tested dwelling units, common areas, and exteriors are reported in this document under Appendix C.

Areas and/or components coated with lead-based paint that are currently *intact* do not constitute a lead hazard if the components do not represent a friction or impact surface (e.g., the windowsill, or floor). However, lead-safe work practices should be used when dealing with any surfaces that are known or assumed to contain lead-based paint.

#### **2.4.1 Paint-Lead Hazards**

As of the date of the evaluation, paints throughout the interior and exterior of the structure were primarily intact, however, deteriorated lead-based paint was identified on building exterior and stairwell areas. Deteriorated lead-based paint should be stabilized in accordance with State of Tennessee Lead-Based Paint Regulations.

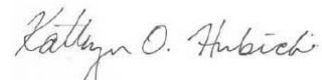
### **2.5 CONDITIONS AND LIMITATIONS—DISCLAIMER**

One Source Environmental, LLC (the Preparer) has performed this lead-based paint inspection in a thorough and professional manner consistent with commonly accepted industry standards. The Preparer cannot guarantee, and does not warrant, that this evaluation has identified all adverse environmental factors and/or conditions affecting this property on the date of the evaluation.

The results reported and conclusions reached by the Preparer are solely for the benefit of the Owner and residents. The results and opinions in this report, based solely on the conditions found at the property on the date of the evaluation, are valid only on that date.

The Preparer assumes no obligation to advise the client of any changes in any real or potential lead-based paint hazards at this residence beyond the date of the property evaluation.

***This report was prepared by:***  
**One Source Environmental, LLC**



Kathryn O. Hubicki  
President

## **SECTION 3: APPENDICES**

### **Appendix A: Property Information**

- A-1: Site Specific Property Information
- A-2: Floor Plans
- A-3: Photographs

### **Appendix B: Summary of Random Selection of Units**

- B-1: Random Selection Detail by Unit

### **Appendix C: XRF Sampling**

- C-1: Component Type Report
- C-2: XRF Testing Results
- C-3: XRF Readings Positive for Lead
- C-4: Performance Characteristic Sheets

### **Appendix D: Certifications, Licenses, and Accreditations**

- D-1: Lead-Based Paint Inspector/Risk Assessor's License/Certification Information
- D-2: Firm License
- D-3: Radioactive Materials License

### **Appendix E: Lead and Lead Safety Resource Data**

- E-1: Glossary
- E-2: Resources for Additional Information on Lead and Lead-Based Paint Hazards

## **Appendix A: Property Information**

**A-1: Site Specific Property Information**

**A-2: Floor Plans**

**A-3: Photographs**

## **A-1: SITE SPECIFIC PROPERTY INFORMATION**

**Property Name:** Northgate Terrace  
**Address:** 4301 Whittle Springs Road  
Knoxville, TN 37917

**Building Address:** 4301 Whittle Springs Road  
Knoxville, TN 37917

**Construction Date:** 1969  
**Total Number of Buildings:** 1  
**Total Number of Units:** 227  
**Number of Units Evaluated:** 27

## **INSPECTION FIRM INFORMATION**

**Firm:** One Source Environmental LLC.  
**Address:** 3717 Latrobe Drive, Unit 760  
Charlotte, North Carolina  
(704) 376-3594

**Firm License:** #FTN-2000-49-6917R

**Risk Assessor:** Jeffrey Partlow  
**License:** #TNLBP2002-876-7669R

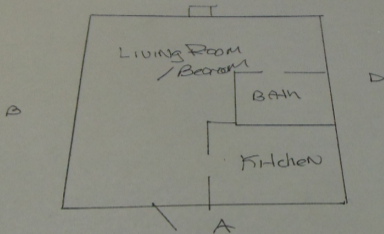
**Date of Evaluation:** June 14-16, 2021

**Date of Report:** June 22, 2021

## **A-2: FLOOR PLANS**

EXTERIOR

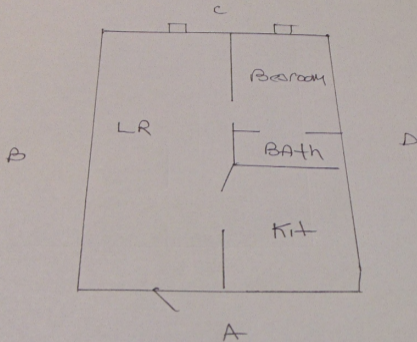
c



CORRIDOR

Studio unit

Exterior



Corridor

ONE Bedroom  
UNIT



## **A-3: PHOTOGRAPHS**



**Building - Side A**



**Building - Side B**



**Building - Side C**



**Building - Side D**



**Address**



**Corridors**



**Stairwell 1**



**Stairwell 2**



**Stairwell Handrail – Deteriorated LBP**



**Exterior Handrail – Deteriorated LBP**

## **Appendix B: Summary of Random Selection of Units**

### **B-1: Random Selection Detail by Unit**

## **B-1: RANDOM SELECTION DETAIL BY UNIT**



## **APPENDIX C: XRF SAMPLING**

**C-1: Component Type Report**

**C-2: XRF Testing Results**

**C-3: XRF Readings Positive for Lead**

**C-4: Performance Characteristics Sheets (PCS)/ Summary Sheet**

## **C-1: COMPONENT TYPE REPORT**



## 21-1178 - Northgate Terrace - 4301 Whittle Springs Road, Knoxville, TN 37917 - Component Type Report

Component Type Report								
Component Description	Location	Substrate	Number of Readings	Positive		Negative		Component Classification
				No.	Percent	No.	Percent	
Handrail	Stairwell	Metal	4	4	100.00	0	0.00	Positive
Handrail	Exterior	Metal	2	2	100.00	0	0.00	Positive
Baseboard	Units	Wood	57	0	0.00	57	100.00	Negative
Baseboard	Corridor	Wood	56	0	0.00	56	100.00	Negative
Baseboard	Commons	Wood	2	0	0.00	2	100.00	Negative
Kitchen Cabinet	Units	Wood	27	0	0.00	27	100.00	Negative
Ceiling	Corridor	Concrete	15	0	0.00	15	100.00	Negative
Ceiling	Commons	Concrete	3	0	0.00	3	100.00	Negative
Ceiling	Units	Drywall	84	0	0.00	84	100.00	Negative
Ceiling	Commons	Drywall	3	0	0.00	3	100.00	Negative
Closet Door	Units	Wood	27	0	0.00	27	100.00	Negative
Closet Door Frame	Units	Wood	30	0	0.00	30	100.00	Negative
Door	Units	Metal	27	0	0.00	27	100.00	Negative
Door	Corridor	Metal	40	0	0.00	40	100.00	Negative
Door	Commons	Metal	3	0	0.00	3	100.00	Negative
Door	Units	Wood	30	0	0.00	30	100.00	Negative
Door	Commons	Wood	3	0	0.00	3	100.00	Negative
Door Frame	Commons	Metal	3	0	0.00	3	100.00	Negative
Door Frame	Units	Wood	57	0	0.00	57	100.00	Negative
Door Frame	Corridor	Wood	40	0	0.00	40	100.00	Negative
Door Frame	Commons	Wood	4	0	0.00	4	100.00	Negative
Elevator Door	Corridor	Metal	28	0	0.00	28	100.00	Negative
Elevator Door Frame	Corridor	Metal	28	0	0.00	28	100.00	Negative
Landing	Stairwell	Concrete	2	0	0.00	2	100.00	Negative
Vanity	Units	Wood	24	0	0.00	24	100.00	Negative
Wall	Corridor	Concrete	4	0	0.00	4	100.00	Negative
Wall	Stairwell	Concrete	9	0	0.00	9	100.00	Negative
Wall	Exterior	Concrete	4	0	0.00	4	100.00	Negative
Wall	Units	Drywall	336	0	0.00	336	100.00	Negative
Wall	Corridor	Drywall	56	0	0.00	56	100.00	Negative
Wall	Commons	Drywall	20	0	0.00	20	100.00	Negative

## **C-2: XRF TESTING RESULTS**

21-1178 - Northgate Terrace - 4301 Whittle Springs Road, Knoxville, TN 37917 - All XRF Readings

Reading	Date/Time	Site	Room	Side	Component	Substrate	Color	Condition	Pb mg/cm2	Result
1	6/14/2021 9:35	CALIBRATE							1.2	Positive
2	6/14/2021 9:35	CALIBRATE							1	Positive
3	6/14/2021 9:35	CALIBRATE							1.1	Positive
4	6/14/2021 10:03	210	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0.02	Negative
5	6/14/2021 10:03	210	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
6	6/14/2021 10:03	210	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
7	6/14/2021 10:03	210	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
8	6/14/2021 10:03	210	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
9	6/14/2021 10:03	210	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
10	6/14/2021 10:04	210	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
11	6/14/2021 10:04	210	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
12	6/14/2021 10:04	210	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0	Negative
13	6/14/2021 10:04	210	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
14	6/14/2021 10:10	210	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0.01	Negative
15	6/14/2021 10:11	210	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0.01	Negative
16	6/14/2021 10:11	210	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
17	6/14/2021 10:13	210	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
18	6/14/2021 10:14	210	KITCHEN	C	WALL	DRYWALL	WHITE	DETERIORATED	0.01	Negative
19	6/14/2021 10:14	210	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
20	6/14/2021 10:14	210	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
21	6/14/2021 10:14	210	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0	Negative
22	6/14/2021 10:14	210	BATHROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
23	6/14/2021 10:14	210	BATHROOM	C	VANITY	WOOD	WHITE	INTACT	-0.3	Negative
24	6/14/2021 10:14	210	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
25	6/14/2021 10:14	210	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0.05	Negative
26	6/14/2021 10:15	210	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0.04	Negative
27	6/14/2021 10:15	210	BATHROOM	D	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
28	6/14/2021 10:15	210	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
29	6/14/2021 10:17	221	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0	Negative
30	6/14/2021 10:17	221	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
31	6/14/2021 10:18	221	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
32	6/14/2021 10:18	221	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
33	6/14/2021 10:18	221	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
34	6/14/2021 10:18	221	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
35	6/14/2021 10:18	221	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
36	6/14/2021 10:19	221	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
37	6/14/2021 10:19	221	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0	Negative
38	6/14/2021 10:19	221	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
39	6/14/2021 10:19	221	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0.01	Negative
40	6/14/2021 10:19	221	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0.01	Negative
41	6/14/2021 10:19	221	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
42	6/14/2021 10:19	221	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
43	6/14/2021 10:20	221	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
44	6/14/2021 10:20	221	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0.04	Negative
45	6/14/2021 10:20	221	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.04	Negative
46	6/14/2021 10:20	221	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0.04	Negative
47	6/14/2021 10:20	221	BATHROOM	C	DOOR FRAME	WOOD	WHITE	DETERIORATED	0.01	Negative
48	6/14/2021 10:20	221	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0	Negative
49	6/14/2021 10:23	221	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
50	6/14/2021 10:23	221	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
51	6/14/2021 10:23	221	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
52	6/14/2021 10:23	221	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
53	6/14/2021 10:23	221	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.02	Negative
54	6/14/2021 10:31	315	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0	Negative
55	6/14/2021 10:31	315	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0.01	Negative
56	6/14/2021 10:31	315	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
57	6/14/2021 10:31	315	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
58	6/14/2021 10:31	315	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
59	6/14/2021 10:31	315	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
60	6/14/2021 10:32	315	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
61	6/14/2021 10:32	315	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
62	6/14/2021 10:32	315	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0	Negative
63	6/14/2021 10:32	315	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
64	6/14/2021 10:32	315	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
65	6/14/2021 10:33	315	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0.02	Negative
66	6/14/2021 10:33	315	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	-0.32	Negative
67	6/14/2021 10:33	315	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
68	6/14/2021 10:33	315	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	0.03	Negative
69	6/14/2021 10:34	315	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
70	6/14/2021 10:34	315	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
71	6/14/2021 10:34	315	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0	Negative
72	6/14/2021 10:34	315	BATHROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0.01	Negative
73	6/14/2021 10:34	315	BATHROOM	C	VANITY	WOOD	WHITE	INTACT	0	Negative
74	6/14/2021 10:34	315	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
75	6/14/2021 10:34	315	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
76	6/14/2021 10:35	315	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
77	6/14/2021 10:35	315	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
78	6/14/2021 10:36	315	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
79	6/14/2021 10:45	401	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0	Negative

21-1178 - Northgate Terrace - 4301 Whittle Springs Road, Knoxville, TN 37917 - All XRF Readings

Reading	Date/Time	Site	Room	Side	Component	Substrate	Color	Condition	Pb mg/cm2	Result
80	6/14/2021 10:45	401	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
81	6/14/2021 10:45	401	LIVING ROOM / BEDROOM	A	BASEBOARD	WOOD	WHITE	INTACT	0.04	Negative
82	6/14/2021 10:45	401	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
83	6/14/2021 10:45	401	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	DETERIORATED	0.02	Negative
84	6/14/2021 10:46	401	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
85	6/14/2021 10:46	401	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
86	6/14/2021 10:46	401	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
87	6/14/2021 10:47	401	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0.01	Negative
88	6/14/2021 10:47	401	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
89	6/14/2021 10:47	401	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
90	6/14/2021 10:47	401	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0.01	Negative
91	6/14/2021 10:47	401	KITCHEN	A	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
92	6/14/2021 10:50	401	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
93	6/14/2021 10:50	401	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	-0.07	Negative
94	6/14/2021 10:50	401	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
95	6/14/2021 10:50	401	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
96	6/14/2021 10:57	401	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0	Negative
97	6/14/2021 10:58	401	BATHROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
98	6/14/2021 10:58	401	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0.3	Negative
99	6/14/2021 10:59	401	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
100	6/14/2021 10:59	401	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
101	6/14/2021 11:00	401	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
102	6/14/2021 11:00	401	BATHROOM	D	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
103	6/14/2021 11:01	401	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
104	6/14/2021 11:05	410	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0.02	Negative
105	6/14/2021 11:05	410	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
106	6/14/2021 11:05	410	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
107	6/14/2021 11:06	410	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
108	6/14/2021 11:06	410	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
109	6/14/2021 11:07	410	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
110	6/14/2021 11:07	410	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
111	6/14/2021 11:07	410	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.04	Negative
112	6/14/2021 11:07	410	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0.02	Negative
113	6/14/2021 11:09	410	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
114	6/14/2021 11:09	410	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
115	6/14/2021 11:09	410	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0.02	Negative
116	6/14/2021 11:09	410	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
117	6/14/2021 11:11	410	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
118	6/14/2021 11:11	410	KITCHEN	C	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
119	6/14/2021 11:18	410	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
120	6/14/2021 11:18	410	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
121	6/14/2021 11:19	410	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0	Negative
122	6/14/2021 11:19	410	BATHROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
123	6/14/2021 11:19	410	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0	Negative
124	6/14/2021 11:19	410	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0.03	Negative
125	6/14/2021 11:20	410	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
126	6/14/2021 11:20	410	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
127	6/14/2021 11:20	410	BATHROOM	D	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
128	6/14/2021 11:20	410	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
129	6/14/2021 11:24	515	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0	Negative
130	6/14/2021 11:24	515	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0.01	Negative
131	6/14/2021 11:24	515	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
132	6/14/2021 11:24	515	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
133	6/14/2021 11:27	515	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
134	6/14/2021 11:27	515	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
135	6/14/2021 11:27	515	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
136	6/14/2021 11:27	515	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
137	6/14/2021 11:27	515	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0.04	Negative
138	6/14/2021 11:28	515	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
139	6/14/2021 11:28	515	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
140	6/14/2021 11:34	515	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0.01	Negative
141	6/14/2021 11:35	515	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0.03	Negative
142	6/14/2021 11:35	515	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0.06	Negative
143	6/14/2021 11:35	515	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	0.05	Negative
144	6/14/2021 11:35	515	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
145	6/14/2021 11:36	515	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
146	6/14/2021 11:36	515	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0	Negative
147	6/14/2021 11:36	515	BATHROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
148	6/14/2021 11:38	515	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0	Negative
149	6/14/2021 11:39	515	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	-0.49	Negative
150	6/14/2021 11:39	515	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0.12	Negative
151	6/14/2021 11:39	515	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0.08	Negative
152	6/14/2021 11:39	515	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
153	6/14/2021 11:39	515	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
154	6/14/2021 11:43	619	LIVING ROOM	A	DOOR	METAL	WHITE	INTACT	0.08	Negative
155	6/14/2021 11:43	619	LIVING ROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
156	6/14/2021 11:43	619	LIVING ROOM	C	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
157	6/14/2021 11:43	619	LIVING ROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
158	6/14/2021 11:43	619	LIVING ROOM	B	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative

## 21-1178 - Northgate Terrace - 4301 Whittle Springs Road, Knoxville, TN 37917 - All XRF Readings

Reading	Date/Time	Site	Room	Side	Component	Substrate	Color	Condition	Pb mg/cm2	Result
159	6/14/2021 11:47	619	LIVING ROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
160	6/14/2021 11:47	619	LIVING ROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
161	6/14/2021 11:47	619	LIVING ROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.05	Negative
162	6/14/2021 11:47	619	LIVING ROOM	B	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
163	6/14/2021 11:47	619	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
164	6/14/2021 11:47	619	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
165	6/14/2021 11:48	619	KITCHEN	C	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
166	6/14/2021 11:48	619	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
167	6/14/2021 11:48	619	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
168	6/14/2021 11:49	619	KITCHEN	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
169	6/14/2021 11:49	619	KITCHEN	B	CABINET	WOOD	WHITE	INTACT	0	Negative
170	6/14/2021 11:49	619	BEDROOM	D	DOOR	WOOD	WHITE	INTACT	0	Negative
171	6/14/2021 11:50	619	BEDROOM	D	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
172	6/14/2021 11:50	619	BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0.01	Negative
173	6/14/2021 11:50	619	BEDROOM	A	CLOSET DOOR	WOOD	WHITE	INTACT	0	Negative
174	6/14/2021 11:50	619	BEDROOM	A	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0.01	Negative
175	6/14/2021 11:50	619	BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
176	6/14/2021 11:50	619	BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0.03	Negative
177	6/14/2021 11:50	619	BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
178	6/14/2021 11:50	619	BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
179	6/14/2021 11:51	619	BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
180	6/14/2021 11:51	619	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0	Negative
181	6/14/2021 11:51	619	BATHROOM	C	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
182	6/14/2021 11:51	619	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
183	6/14/2021 11:51	619	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0.08	Negative
184	6/14/2021 11:51	619	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
185	6/14/2021 11:51	619	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
186	6/14/2021 11:52	619	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
187	6/14/2021 12:03	618	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0.05	Negative
188	6/14/2021 12:03	618	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0.03	Negative
189	6/14/2021 12:03	618	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
190	6/14/2021 12:03	618	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
191	6/14/2021 12:04	618	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0.3	Negative
192	6/14/2021 12:05	618	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
193	6/14/2021 12:05	618	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
194	6/14/2021 12:05	618	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
195	6/14/2021 12:09	618	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0	Negative
196	6/14/2021 12:12	618	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
197	6/14/2021 12:12	618	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
198	6/14/2021 12:12	618	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0	Negative
199	6/14/2021 12:13	618	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
200	6/14/2021 12:13	618	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
201	6/14/2021 12:13	618	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
202	6/14/2021 12:16	618	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
203	6/14/2021 12:17	618	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.05	Negative
204	6/14/2021 12:20	618	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0	Negative
205	6/14/2021 12:20	618	BATHROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
206	6/14/2021 12:20	618	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0	Negative
207	6/14/2021 12:21	618	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
208	6/14/2021 12:22	618	BATHROOM	B	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
209	6/14/2021 12:22	618	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
210	6/14/2021 12:22	618	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
211	6/14/2021 12:22	618	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
212	6/14/2021 12:26	721	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0	Negative
213	6/14/2021 12:26	721	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
214	6/14/2021 12:28	721	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
215	6/14/2021 12:28	721	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
216	6/14/2021 12:28	721	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
217	6/14/2021 12:29	721	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
218	6/14/2021 12:29	721	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
219	6/14/2021 12:29	721	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.01	Negative
220	6/14/2021 12:29	721	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0	Negative
221	6/14/2021 12:30	721	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
222	6/14/2021 12:30	721	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
223	6/14/2021 12:30	721	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0	Negative
224	6/14/2021 12:31	721	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
225	6/14/2021 12:31	721	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
226	6/14/2021 12:31	721	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
227	6/14/2021 12:31	721	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
228	6/14/2021 12:32	721	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
229	6/14/2021 12:35	721	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0.07	Negative
230	6/14/2021 12:36	721	BATHROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
231	6/14/2021 12:36	721	BATHROOM	C	VANITY	WOOD	WHITE	INTACT	0	Negative
232	6/14/2021 12:36	721	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
233	6/14/2021 12:37	721	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
234	6/14/2021 12:37	721	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
235	6/14/2021 12:37	721	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
236	6/14/2021 12:38	721	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
237	6/14/2021 12:39	CALIBRATE							1.2	Positive

## 21-1178 - Northgate Terrace - 4301 Whittle Springs Road, Knoxville, TN 37917 - All XRF Readings

Reading	Date/Time	Site	Room	Side	Component	Substrate	Color	Condition	Pb mg/cm2	Result
238	6/14/2021 12:39	CALIBRATE							1.1	Positive
239	6/14/2021 12:40	CALIBRATE							1.1	Positive
240	6/14/2021 12:40	710	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0	Negative
241	6/14/2021 12:40	710	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
242	6/14/2021 12:42	710	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0.07	Negative
243	6/14/2021 12:42	710	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0.03	Negative
244	6/14/2021 12:42	710	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
245	6/14/2021 12:42	710	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
246	6/14/2021 12:42	710	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
247	6/14/2021 12:42	710	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
248	6/14/2021 12:42	710	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	DETERIORATED	0.01	Negative
249	6/14/2021 12:43	710	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
250	6/14/2021 12:44	710	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0.07	Negative
251	6/14/2021 12:44	710	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0.08	Negative
252	6/14/2021 12:44	710	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0.04	Negative
253	6/14/2021 12:46	710	KITCHEN	B	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
254	6/14/2021 12:46	710	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
255	6/14/2021 12:46	710	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
256	6/14/2021 12:47	710	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
257	6/14/2021 12:54	710	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0	Negative
258	6/14/2021 12:57	710	BATHROOM	C	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
259	6/14/2021 12:57	710	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0	Negative
260	6/14/2021 12:58	710	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
261	6/14/2021 12:58	710	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
262	6/14/2021 12:58	710	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0.09	Negative
263	6/14/2021 12:59	710	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
264	6/14/2021 12:59	710	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	-0.08	Negative
265	6/14/2021 13:05	708	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0.01	Negative
266	6/14/2021 13:06	708	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
267	6/14/2021 13:06	708	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0.01	Negative
268	6/14/2021 13:06	708	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0.08	Negative
269	6/14/2021 13:06	708	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0.08	Negative
270	6/14/2021 13:07	708	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0.1	Negative
271	6/14/2021 13:07	708	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0.12	Negative
272	6/14/2021 13:10	708	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	-0.45	Negative
273	6/14/2021 13:10	708	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0.03	Negative
274	6/14/2021 13:11	708	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0.02	Negative
275	6/14/2021 13:11	708	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0.02	Negative
276	6/14/2021 13:13	708	KITCHEN	D	CABINET	WOOD	BROWN	DETERIORATED	0	Negative
277	6/14/2021 13:13	708	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
278	6/14/2021 13:19	708	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
279	6/14/2021 13:19	708	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
280	6/14/2021 13:19	708	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
281	6/14/2021 13:19	708	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	-0.23	Negative
282	6/14/2021 13:20	708	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0	Negative
283	6/14/2021 13:20	708	BATHROOM	C	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
284	6/14/2021 13:20	708	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0	Negative
285	6/14/2021 13:20	708	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
286	6/14/2021 13:20	708	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
287	6/14/2021 13:24	708	BATHROOM	C	WALL	DRYWALL	WHITE	DETERIORATED	0.01	Negative
288	6/14/2021 13:24	708	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
289	6/14/2021 13:24	708	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.01	Negative
290	6/14/2021 13:27	803	LIVING ROOM	A	DOOR	METAL	WHITE	INTACT	0.02	Negative
291	6/14/2021 13:27	803	LIVING ROOM	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
292	6/14/2021 13:27	803	LIVING ROOM	C	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
293	6/14/2021 13:27	803	LIVING ROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
294	6/14/2021 13:30	803	LIVING ROOM	B	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
295	6/14/2021 13:30	803	LIVING ROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
296	6/14/2021 13:30	803	LIVING ROOM	D	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
297	6/14/2021 13:30	803	LIVING ROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
298	6/14/2021 13:31	803	LIVING ROOM	B	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
299	6/14/2021 13:31	803	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
300	6/14/2021 13:31	803	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
301	6/14/2021 13:31	803	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
302	6/14/2021 13:33	803	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
303	6/14/2021 13:34	803	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
304	6/14/2021 13:34	803	KITCHEN	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
305	6/14/2021 13:34	803	KITCHEN	B	CABINET	WOOD	WHITE	INTACT	0.01	Negative
306	6/14/2021 13:34	803	BEDROOM	D	DOOR	WOOD	WHITE	INTACT	0	Negative
307	6/14/2021 13:34	803	BEDROOM	D	DOOR FRAME	WOOD	WHITE	INTACT	0.01	Negative
308	6/14/2021 13:34	803	BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0.08	Negative
309	6/14/2021 13:34	803	BEDROOM	A	CLOSET DOOR	WOOD	WHITE	INTACT	0.08	Negative
310	6/14/2021 13:34	803	BEDROOM	A	CLOSET DOOR FRAME	WOOD	WHITE	DETERIORATED	0.1	Negative
311	6/14/2021 13:35	803	BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0.12	Negative
312	6/14/2021 13:35	803	BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0.09	Negative
313	6/14/2021 13:35	803	BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
314	6/14/2021 13:35	803	BEDROOM	D	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
315	6/14/2021 13:35	803	BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.01	Negative
316	6/14/2021 13:36	803	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0	Negative

## 21-1178 - Northgate Terrace - 4301 Whittle Springs Road, Knoxville, TN 37917 - All XRF Readings

Reading	Date/Time	Site	Room	Side	Component	Substrate	Color	Condition	Pb mg/cm <sup>2</sup>	Result
317	6/14/2021 13:37	803	BATHROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
318	6/14/2021 13:38	803	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
319	6/14/2021 13:41	803	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
320	6/14/2021 13:41	803	BATHROOM	C	WALL	DRYWALL	WHITE	DETERIORATED	0.01	Negative
321	6/14/2021 13:42	803	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
322	6/14/2021 13:42	803	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.08	Negative
323	6/14/2021 13:48	1410	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0.1	Negative
324	6/14/2021 13:48	1410	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0.12	Negative
325	6/14/2021 13:48	1410	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0.09	Negative
326	6/14/2021 13:50	1410	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
327	6/14/2021 13:50	1410	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
328	6/14/2021 13:50	1410	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
329	6/14/2021 13:50	1410	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
330	6/14/2021 13:52	1410	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
331	6/14/2021 13:52	1410	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0	Negative
332	6/14/2021 13:52	1410	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0.08	Negative
333	6/14/2021 13:53	1410	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0.1	Negative
334	6/14/2021 13:53	1410	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0.12	Negative
335	6/14/2021 13:53	1410	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0.09	Negative
336	6/14/2021 13:54	1410	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
337	6/14/2021 13:54	1410	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
338	6/14/2021 13:54	1410	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
339	6/14/2021 13:56	1410	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
340	6/14/2021 13:56	1410	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0	Negative
341	6/14/2021 13:56	1410	BATHROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
342	6/14/2021 13:58	1410	BATHROOM	A	VANITY	WOOD	WHITE	DETERIORATED	0.08	Negative
343	6/14/2021 13:58	1410	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0.1	Negative
344	6/14/2021 13:58	1410	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0.12	Negative
345	6/14/2021 14:01	1410	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0.09	Negative
346	6/14/2021 14:01	1410	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
347	6/14/2021 14:06	1410	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
348	6/14/2021 14:10	1402	LIVING ROOM	A	DOOR	METAL	WHITE	INTACT	0.02	Negative
349	6/14/2021 14:10	1402	LIVING ROOM	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
350	6/14/2021 14:10	1402	LIVING ROOM	C	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
351	6/14/2021 14:12	1402	LIVING ROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
352	6/14/2021 14:12	1402	LIVING ROOM	B	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
353	6/14/2021 14:12	1402	LIVING ROOM	C	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
354	6/14/2021 14:14	1402	LIVING ROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
355	6/14/2021 14:14	1402	LIVING ROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
356	6/14/2021 14:14	1402	LIVING ROOM	B	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
357	6/14/2021 14:15	1402	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
358	6/14/2021 14:15	1402	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
359	6/14/2021 14:17	1402	KITCHEN	C	WALL	DRYWALL	WHITE	DETERIORATED	0.02	Negative
360	6/14/2021 14:17	1402	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
361	6/14/2021 14:17	1402	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
362	6/14/2021 14:19	1402	KITCHEN	D	BASEBOARD	WOOD	WHITE	INTACT	0.08	Negative
363	6/14/2021 14:19	1402	KITCHEN	B	CABINET	WOOD	WHITE	INTACT	0.1	Negative
364	6/14/2021 14:19	1402	BEDROOM	D	DOOR	WOOD	WHITE	INTACT	0.12	Negative
365	6/14/2021 14:20	1402	BEDROOM	D	DOOR FRAME	WOOD	WHITE	INTACT	-0.45	Negative
366	6/14/2021 14:20	1402	BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0.03	Negative
367	6/14/2021 14:21	1402	BEDROOM	A	CLOSET DOOR	WOOD	WHITE	INTACT	0.02	Negative
368	6/14/2021 14:21	1402	BEDROOM	A	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0.02	Negative
369	6/14/2021 14:21	1402	BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
370	6/14/2021 14:22	1402	BEDROOM	B	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
371	6/14/2021 14:22	1402	BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
372	6/14/2021 14:22	1402	BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
373	6/14/2021 14:23	1402	BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
374	6/14/2021 14:23	1402	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	-0.23	Negative
375	6/14/2021 14:23	1402	BATHROOM	C	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
376	6/14/2021 14:24	1402	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
377	6/14/2021 14:24	1402	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
378	6/14/2021 14:24	1402	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
379	6/14/2021 14:25	1402	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
380	6/14/2021 14:25	1402	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
381	6/14/2021 14:31	1405	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0.02	Negative
382	6/14/2021 14:32	1405	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0.02	Negative
383	6/14/2021 14:32	1405	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
384	6/14/2021 14:32	1405	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
385	6/14/2021 14:32	1405	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
386	6/14/2021 14:32	1405	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
387	6/14/2021 14:32	1405	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
388	6/14/2021 14:33	1405	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
389	6/14/2021 14:33	1405	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0.02	Negative
390	6/14/2021 14:33	1405	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0.01	Negative
391	6/14/2021 14:34	1405	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
392	6/14/2021 14:34	1405	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0	Negative
393	6/14/2021 14:34	1405	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
394	6/14/2021 14:35	1405	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
395	6/14/2021 14:35	1405	KITCHEN	C	WALL	DRYWALL	WHITE	DETERIORATED	0.01	Negative

## 21-1178 - Northgate Terrace - 4301 Whittle Springs Road, Knoxville, TN 37917 - All XRF Readings

Reading	Date/Time	Site	Room	Side	Component	Substrate	Color	Condition	Pb mg/cm2	Result
396	6/14/2021 14:37	1405	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0.08	Negative
397	6/14/2021 14:38	1405	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.08	Negative
398	6/14/2021 14:38	1405	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0.1	Negative
399	6/14/2021 14:39	1405	BATHROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0.12	Negative
400	6/14/2021 14:39	1405	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0.09	Negative
401	6/14/2021 14:42	1405	BATHROOM	A	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
402	6/14/2021 14:44	1405	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
403	6/14/2021 14:44	1405	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
404	6/14/2021 14:44	1405	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
405	6/14/2021 14:44	1405	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
406	6/14/2021 14:49	1409	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0.02	Negative
407	6/14/2021 14:49	1409	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
408	6/14/2021 14:49	1409	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
409	6/14/2021 14:51	1409	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
410	6/14/2021 14:51	1409	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
411	6/14/2021 14:51	1409	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
412	6/14/2021 14:52	1409	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
413	6/14/2021 14:52	1409	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.01	Negative
414	6/14/2021 14:53	1409	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0	Negative
415	6/14/2021 14:53	1409	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
416	6/14/2021 14:54	1409	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
417	6/14/2021 14:54	1409	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0	Negative
418	6/14/2021 14:55	1409	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
419	6/14/2021 14:55	1409	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
420	6/14/2021 14:56	1409	KITCHEN	C	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
421	6/14/2021 14:56	1409	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
422	6/14/2021 14:57	1409	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
423	6/14/2021 14:57	1409	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0.07	Negative
424	6/14/2021 15:01	1409	BATHROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
425	6/14/2021 15:01	1409	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0	Negative
426	6/14/2021 15:01	1409	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
427	6/14/2021 15:03	1409	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
428	6/14/2021 15:03	1409	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
429	6/14/2021 15:03	1409	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
430	6/14/2021 15:03	1409	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
431	6/14/2021 15:13	1312	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0	Negative
432	6/14/2021 15:13	1312	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
433	6/14/2021 15:13	1312	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
434	6/14/2021 15:15	1312	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
435	6/14/2021 15:15	1312	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
436	6/14/2021 15:17	1312	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
437	6/14/2021 15:18	1312	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0.05	Negative
438	6/14/2021 15:18	1312	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
439	6/14/2021 15:19	1312	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0.01	Negative
440	6/14/2021 15:19	1312	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0.01	Negative
441	6/14/2021 15:19	1312	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
442	6/14/2021 15:21	1312	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0.01	Negative
443	6/14/2021 15:21	1312	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
444	6/14/2021 15:21	1312	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
445	6/14/2021 15:24	1312	KITCHEN	C	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
446	6/14/2021 15:24	1312	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
447	6/14/2021 15:24	1312	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
448	6/14/2021 15:26	1312	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0.01	Negative
449	6/14/2021 15:26	1312	BATHROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
450	6/14/2021 15:26	1312	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0.01	Negative
451	6/14/2021 15:27	1312	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
452	6/14/2021 15:27	1312	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0.03	Negative
453	6/14/2021 15:29	1312	BATHROOM	C	WALL	DRYWALL	WHITE	DETERIORATED	0.01	Negative
454	6/14/2021 15:29	1312	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
455	6/14/2021 15:29	1312	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
456	6/14/2021 15:38	CALIBRATE							1.2	Positive
457	6/14/2021 15:38	CALIBRATE							1.1	Positive
458	6/14/2021 15:38	CALIBRATE							1.1	Positive
459	6/15/2021 9:12								5.03	
460	6/15/2021 9:13	CALIBRATE							1	Positive
461	6/15/2021 9:13	CALIBRATE							1	Positive
462	6/15/2021 9:14	CALIBRATE							1	Positive
463	6/15/2021 9:15	1207	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0.01	Negative
464	6/15/2021 9:15	1207	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0.13	Negative
465	6/15/2021 9:15	1207	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0.03	Negative
466	6/15/2021 9:15	1207	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	DETERIORATED	0.03	Negative
467	6/15/2021 9:16	1207	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
468	6/15/2021 9:17	1207	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
469	6/15/2021 9:17	1207	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
470	6/15/2021 9:17	1207	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.05	Negative
471	6/15/2021 9:17	1207	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0.03	Negative
472	6/15/2021 9:17	1207	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0.15	Negative
473	6/15/2021 9:18	1207	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0.03	Negative
474	6/15/2021 9:20	1207	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0	Negative



## 21-1178 - Northgate Terrace - 4301 Whittle Springs Road, Knoxville, TN 37917 - All XRF Readings

Reading	Date/Time	Site	Room	Side	Component	Substrate	Color	Condition	Pb mg/cm2	Result
475	6/15/2021 9:21	1207	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
476	6/15/2021 9:21	1207	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
477	6/15/2021 9:21	1207	KITCHEN	C	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
478	6/15/2021 9:21	1207	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
479	6/15/2021 9:21	1207	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.01	Negative
480	6/15/2021 9:21	1207	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0.01	Negative
481	6/15/2021 9:21	1207	BATHROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
482	6/15/2021 9:21	1207	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0.03	Negative
483	6/15/2021 9:22	1207	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0.09	Negative
484	6/15/2021 9:22	1207	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
485	6/15/2021 9:22	1207	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
486	6/15/2021 9:22	1207	BATHROOM	D	WALL	DRYWALL	WHITE	DETERIORATED	0.01	Negative
487	6/15/2021 9:29	1207	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
488	6/15/2021 9:32	1107	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0	Negative
489	6/15/2021 9:32	1107	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0.01	Negative
490	6/15/2021 9:32	1107	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0.02	Negative
491	6/15/2021 9:33	1107	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
492	6/15/2021 9:34	1107	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
493	6/15/2021 9:34	1107	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
494	6/15/2021 9:34	1107	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
495	6/15/2021 9:34	1107	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.01	Negative
496	6/15/2021 9:35	1107	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0	Negative
497	6/15/2021 9:36	1107	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
498	6/15/2021 9:36	1107	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
499	6/15/2021 9:38	1107	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0.02	Negative
500	6/15/2021 9:38	1107	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
501	6/15/2021 9:43	1107	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
502	6/15/2021 9:43	1107	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
503	6/15/2021 9:43	1107	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
504	6/15/2021 9:44	1107	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
505	6/15/2021 9:44	1107	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0	Negative
506	6/15/2021 9:44	1107	BATHROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
507	6/15/2021 9:44	1107	BATHROOM	C	VANITY	WOOD	WHITE	INTACT	0.01	Negative
508	6/15/2021 9:44	1107	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0.03	Negative
509	6/15/2021 9:44	1107	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
510	6/15/2021 9:44	1107	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
511	6/15/2021 9:45	1107	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0.07	Negative
512	6/15/2021 9:45	1107	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
513	6/15/2021 9:47	1111	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0	Negative
514	6/15/2021 9:47	1111	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
515	6/15/2021 9:47	1111	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
516	6/15/2021 9:47	1111	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
517	6/15/2021 9:48	1111	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
518	6/15/2021 9:48	1111	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
519	6/15/2021 9:48	1111	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
520	6/15/2021 9:48	1111	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.03	Negative
521	6/15/2021 9:48	1111	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0	Negative
522	6/15/2021 9:48	1111	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
523	6/15/2021 9:49	1111	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0.01	Negative
524	6/15/2021 9:49	1111	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0.03	Negative
525	6/15/2021 9:50	1111	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
526	6/15/2021 9:50	1111	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
527	6/15/2021 9:50	1111	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
528	6/15/2021 9:54	1111	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
529	6/15/2021 9:54	1111	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
530	6/15/2021 9:55	1111	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0	Negative
531	6/15/2021 9:55	1111	BATHROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
532	6/15/2021 9:56	1111	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0	Negative
533	6/15/2021 9:57	1111	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
534	6/15/2021 9:58	1111	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
535	6/15/2021 9:59	1111	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
536	6/15/2021 9:59	1111	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
537	6/15/2021 9:59	1111	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
538	6/15/2021 10:02	1115	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0	Negative
539	6/15/2021 10:02	1115	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
540	6/15/2021 10:02	1115	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
541	6/15/2021 10:03	1115	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
542	6/15/2021 10:04	1115	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
543	6/15/2021 10:04	1115	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
544	6/15/2021 10:04	1115	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
545	6/15/2021 10:04	1115	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
546	6/15/2021 10:04	1115	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0	Negative
547	6/15/2021 10:05	1115	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
548	6/15/2021 10:09	1115	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
549	6/15/2021 10:09	1115	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0	Negative
550	6/15/2021 10:09	1115	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
551	6/15/2021 10:10	1115	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
552	6/15/2021 10:10	1115	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
553	6/15/2021 10:11	1115	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0	Negative

21-1178 - Northgate Terrace - 4301 Whittle Springs Road, Knoxville, TN 37917 - All XRF Readings

Reading	Date/Time	Site	Room	Side	Component	Substrate	Color	Condition	Pb mg/cm2	Result
554	6/15/2021 10:11	1115	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
555	6/15/2021 10:13	1115	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0	Negative
556	6/15/2021 10:14	1115	BATHROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
557	6/15/2021 10:14	1115	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0	Negative
558	6/15/2021 10:14	1115	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
559	6/15/2021 10:15	1115	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
560	6/15/2021 10:15	1115	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
561	6/15/2021 10:15	1115	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
562	6/15/2021 10:15	1115	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
563	6/15/2021 10:20	1006	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0	Negative
564	6/15/2021 10:20	1006	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
565	6/15/2021 10:20	1006	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
566	6/15/2021 10:23	1006	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
567	6/15/2021 10:23	1006	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
568	6/15/2021 10:24	1006	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
569	6/15/2021 10:24	1006	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
570	6/15/2021 10:25	1006	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
571	6/15/2021 10:27	1006	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0.01	Negative
572	6/15/2021 10:27	1006	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
573	6/15/2021 10:27	1006	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0.01	Negative
574	6/15/2021 10:28	1006	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0	Negative
575	6/15/2021 10:28	1006	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
576	6/15/2021 10:28	1006	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
577	6/15/2021 10:29	1006	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
578	6/15/2021 10:31	1006	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
579	6/15/2021 10:32	1006	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.02	Negative
580	6/15/2021 10:32	1006	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0	Negative
581	6/15/2021 10:32	1006	BATHROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0.01	Negative
582	6/15/2021 10:32	1006	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0.01	Negative
583	6/15/2021 10:32	1006	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
584	6/15/2021 10:34	1006	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
585	6/15/2021 10:35	1006	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
586	6/15/2021 10:35	1006	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
587	6/15/2021 10:36	1006	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
588	6/15/2021 10:45	1000	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0	Negative
589	6/15/2021 10:45	1000	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0.1	Negative
590	6/15/2021 10:45	1000	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0.03	Negative
591	6/15/2021 10:45	1000	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
592	6/15/2021 10:45	1000	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0.04	Negative
593	6/15/2021 10:45	1000	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
594	6/15/2021 10:46	1000	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
595	6/15/2021 10:47	1000	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
596	6/15/2021 10:47	1000	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0	Negative
597	6/15/2021 10:47	1000	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0.02	Negative
598	6/15/2021 10:48	1000	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0.02	Negative
599	6/15/2021 10:48	1000	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0	Negative
600	6/15/2021 10:48	1000	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
601	6/15/2021 10:49	1000	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
602	6/15/2021 10:49	1000	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
603	6/15/2021 10:49	1000	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
604	6/15/2021 10:49	1000	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
605	6/15/2021 10:50	1000	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0	Negative
606	6/15/2021 10:55	1000	BATHROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0.01	Negative
607	6/15/2021 10:55	1000	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0.01	Negative
608	6/15/2021 10:55	1000	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
609	6/15/2021 10:55	1000	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
610	6/15/2021 10:55	1000	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
611	6/15/2021 10:55	1000	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
612	6/15/2021 10:55	1000	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
613	6/15/2021 11:01	907	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0.06	Negative
614	6/15/2021 11:01	907	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0.05	Negative
615	6/15/2021 11:02	907	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0.05	Negative
616	6/15/2021 11:02	907	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
617	6/15/2021 11:04	907	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
618	6/15/2021 11:05	907	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0.03	Negative
619	6/15/2021 11:05	907	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
620	6/15/2021 11:05	907	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.19	Negative
621	6/15/2021 11:06	907	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0.22	Negative
622	6/15/2021 11:07	907	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0.25	Negative
623	6/15/2021 11:08	907	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0.4	Negative
624	6/15/2021 11:09	907	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0.07	Negative
625	6/15/2021 11:09	907	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0.12	Negative
626	6/15/2021 11:09	907	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0.04	Negative
627	6/15/2021 11:09	907	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	0.17	Negative
628	6/15/2021 11:11	907	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0.06	Negative
629	6/15/2021 11:16	907	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.01	Negative
630	6/15/2021 11:17	907	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0.05	Negative
631	6/15/2021 11:17	907	BATHROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0.01	Negative
632	6/15/2021 11:17	907	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0.03	Negative

## 21-1178 - Northgate Terrace - 4301 Whittle Springs Road, Knoxville, TN 37917 - All XRF Readings

Reading	Date/Time	Site	Room	Side	Component	Substrate	Color	Condition	Pb mg/cm2	Result
633	6/15/2021 11:18	907	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
634	6/15/2021 11:18	907	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
635	6/15/2021 11:19	907	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0.04	Negative
636	6/15/2021 11:19	907	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0.03	Negative
637	6/15/2021 11:19	907	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
638	6/15/2021 11:21	911	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0	Negative
639	6/15/2021 11:21	911	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
640	6/15/2021 11:21	911	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
641	6/15/2021 11:23	911	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
642	6/15/2021 11:23	911	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
643	6/15/2021 11:24	911	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
644	6/15/2021 11:24	911	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
645	6/15/2021 11:24	911	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.3	Negative
646	6/15/2021 11:24	911	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0	Negative
647	6/15/2021 11:24	911	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
648	6/15/2021 11:30	911	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
649	6/15/2021 11:30	911	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0	Negative
650	6/15/2021 11:31	911	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
651	6/15/2021 11:32	911	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
652	6/15/2021 11:33	911	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
653	6/15/2021 11:33	911	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
654	6/15/2021 11:34	911	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.05	Negative
655	6/15/2021 11:36	911	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0	Negative
656	6/15/2021 11:36	911	BATHROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0.01	Negative
657	6/15/2021 11:36	911	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0.02	Negative
658	6/15/2021 11:36	911	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
659	6/15/2021 11:36	911	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
660	6/15/2021 11:39	911	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	-0.27	Negative
661	6/15/2021 11:39	911	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0.03	Negative
662	6/15/2021 11:40	911	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
663	6/15/2021 11:46	1003	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0	Negative
664	6/15/2021 11:46	1003	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
665	6/15/2021 11:46	1003	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
666	6/15/2021 11:46	1003	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
667	6/15/2021 11:46	1003	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
668	6/15/2021 11:47	1003	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0.04	Negative
669	6/15/2021 11:47	1003	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
670	6/15/2021 11:48	1003	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
671	6/15/2021 11:48	1003	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0	Negative
672	6/15/2021 11:49	1003	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
673	6/15/2021 11:49	1003	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
674	6/15/2021 11:50	1003	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0	Negative
675	6/15/2021 11:50	1003	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
676	6/15/2021 11:50	1003	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
677	6/15/2021 11:50	1003	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
678	6/15/2021 11:51	1003	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
679	6/15/2021 11:51	1003	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
680	6/15/2021 11:52	1003	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0.01	Negative
681	6/15/2021 11:52	1003	BATHROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0.01	Negative
682	6/15/2021 11:52	1003	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0	Negative
683	6/15/2021 11:53	1003	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
684	6/15/2021 11:53	1003	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
685	6/15/2021 11:54	1003	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
686	6/15/2021 11:54	1003	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
687	6/15/2021 11:55	1003	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
688	6/15/2021 12:02	1104	LIVING ROOM / BEDROOM	A	DOOR	METAL	WHITE	INTACT	0	Negative
689	6/15/2021 12:02	1104	LIVING ROOM / BEDROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
690	6/15/2021 12:03	1104	LIVING ROOM / BEDROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
691	6/15/2021 12:03	1104	LIVING ROOM / BEDROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
692	6/15/2021 12:04	1104	LIVING ROOM / BEDROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
693	6/15/2021 12:04	1104	LIVING ROOM / BEDROOM	C	WALL	DRYWALL	WHITE	INTACT	0.04	Negative
694	6/15/2021 12:05	1104	LIVING ROOM / BEDROOM	D	WALL	DRYWALL	WHITE	INTACT	0.11	Negative
695	6/15/2021 12:05	1104	LIVING ROOM / BEDROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.02	Negative
696	6/15/2021 12:05	1104	LIVING ROOM / BEDROOM	C	CLOSET DOOR	WOOD	WHITE	INTACT	0	Negative
697	6/15/2021 12:06	1104	LIVING ROOM / BEDROOM	C	CLOSET DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
698	6/15/2021 12:06	1104	KITCHEN	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
699	6/15/2021 12:06	1104	KITCHEN	D	CABINET	WOOD	BROWN	INTACT	0	Negative
700	6/15/2021 12:06	1104	KITCHEN	A	WALL	DRYWALL	WHITE	INTACT	0.15	Negative
701	6/15/2021 12:07	1104	KITCHEN	B	WALL	DRYWALL	WHITE	INTACT	0.18	Negative
702	6/15/2021 12:07	1104	KITCHEN	C	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
703	6/15/2021 12:07	1104	KITCHEN	D	WALL	DRYWALL	WHITE	INTACT	0.11	Negative
704	6/15/2021 12:07	1104	KITCHEN	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.14	Negative
705	6/15/2021 12:07	1104	BATHROOM	C	DOOR	WOOD	WHITE	INTACT	0.09	Negative
706	6/15/2021 12:08	1104	BATHROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0.06	Negative
707	6/15/2021 12:08	1104	BATHROOM	A	VANITY	WOOD	WHITE	INTACT	0.03	Negative
708	6/15/2021 12:08	1104	BATHROOM	A	WALL	DRYWALL	WHITE	INTACT	0.12	Negative
709	6/15/2021 12:09	1104	BATHROOM	B	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
710	6/15/2021 12:11	1104	BATHROOM	C	WALL	DRYWALL	WHITE	INTACT	0.4	Negative
711	6/15/2021 12:13	1104	BATHROOM	D	WALL	DRYWALL	WHITE	INTACT	0.07	Negative

21-1178 - Northgate Terrace - 4301 Whittle Springs Road, Knoxville, TN 37917 - All XRF Readings

Reading	Date/Time	Site	Room	Side	Component	Substrate	Color	Condition	Pb mg/cm2	Result
712	6/15/2021 12:13	1104	BATHROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.12	Negative
713	6/15/2021 12:15	CALIBRATE							1.1	Positive
714	6/15/2021 12:15	CALIBRATE							1.1	Positive
715	6/15/2021 12:16	CALIBRATE							1.1	Positive
716	6/15/2021 12:20	14TH FLOOR	CORRIDOR	A	WALL	DRYWALL	WHITE	INTACT	0.06	Negative
717	6/15/2021 12:22	14TH FLOOR	CORRIDOR	B	WALL	DRYWALL	WHITE	INTACT	0.05	Negative
718	6/15/2021 12:22	14TH FLOOR	CORRIDOR	C	WALL	DRYWALL	WHITE	INTACT	0.05	Negative
719	6/15/2021 12:23	14TH FLOOR	CORRIDOR	D	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
720	6/15/2021 12:23	14TH FLOOR	CORRIDOR	CEILING	CEILING	CONCRETE	WHITE	INTACT	0.02	Negative
721	6/15/2021 12:24	14TH FLOOR	CORRIDOR	A	DOOR	METAL	GREEN	DETERIORATED	0.03	Negative
722	6/15/2021 12:25	14TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
723	6/15/2021 12:25	14TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	DETERIORATED	0	Negative
724	6/15/2021 12:26	14TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
725	6/15/2021 12:26	14TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	DETERIORATED	0	Negative
726	6/15/2021 12:27	14TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
727	6/15/2021 12:27	14TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0	Negative
728	6/15/2021 12:28	14TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0	Negative
729	6/15/2021 12:28	14TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0	Negative
730	6/15/2021 12:29	14TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0	Negative
731	6/15/2021 12:29	14TH FLOOR	CORRIDOR	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
732	6/15/2021 12:30	14TH FLOOR	CORRIDOR	B	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
733	6/15/2021 12:30	14TH FLOOR	CORRIDOR	C	BASEBOARD	WOOD	WHITE	INTACT	0.05	Negative
734	6/15/2021 12:30	14TH FLOOR	CORRIDOR	D	BASEBOARD	WOOD	WHITE	INTACT	0.01	Negative
735	6/15/2021 12:40	13TH FLOOR	CORRIDOR	A	DOOR	METAL	GREEN	DETERIORATED	0.03	Negative
736	6/15/2021 12:42	13TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
737	6/15/2021 12:42	13TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	DETERIORATED	0	Negative
738	6/15/2021 12:44	13TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
739	6/15/2021 12:44	13TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	DETERIORATED	0	Negative
740	6/15/2021 12:45	13TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
741	6/15/2021 12:45	13TH FLOOR	CORRIDOR	A	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
742	6/15/2021 12:47	13TH FLOOR	CORRIDOR	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
743	6/15/2021 12:47	13TH FLOOR	CORRIDOR	C	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
744	6/15/2021 12:47	13TH FLOOR	CORRIDOR	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
745	6/15/2021 12:48	13TH FLOOR	CORRIDOR	CEILING	CEILING	CONCRETE	WHITE	INTACT	0.01	Negative
746	6/15/2021 12:48	13TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0	Negative
747	6/15/2021 12:48	13TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0	Negative
748	6/15/2021 12:49	13TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0	Negative
749	6/15/2021 12:49	13TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0.02	Negative
750	6/15/2021 12:49	13TH FLOOR	CORRIDOR	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
751	6/15/2021 12:50	13TH FLOOR	CORRIDOR	B	BASEBOARD	WOOD	WHITE	INTACT	0.01	Negative
752	6/15/2021 12:50	13TH FLOOR	CORRIDOR	C	BASEBOARD	WOOD	WHITE	INTACT	0.01	Negative
753	6/15/2021 12:50	13TH FLOOR	CORRIDOR	D	BASEBOARD	WOOD	WHITE	INTACT	0.01	Negative
754	6/15/2021 12:50	12TH FLOOR	CORRIDOR	A	DOOR	METAL	GREEN	DETERIORATED	0.02	Negative
755	6/15/2021 12:51	12TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
756	6/15/2021 12:51	12TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	DETERIORATED	0	Negative
757	6/15/2021 12:52	12TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
758	6/15/2021 12:52	12TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	DETERIORATED	0.01	Negative
759	6/15/2021 12:52	12TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0.3	Negative
760	6/15/2021 12:53	12TH FLOOR	CORRIDOR	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
761	6/15/2021 12:53	12TH FLOOR	CORRIDOR	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
762	6/15/2021 12:54	12TH FLOOR	CORRIDOR	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
763	6/15/2021 12:54	12TH FLOOR	CORRIDOR	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
764	6/15/2021 12:54	12TH FLOOR	CORRIDOR	CEILING	CEILING	CONCRETE	WHITE	INTACT	0	Negative
765	6/15/2021 12:55	12TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0	Negative
766	6/15/2021 12:55	12TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0.02	Negative
767	6/15/2021 12:55	12TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0	Negative
768	6/15/2021 12:56	12TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0.05	Negative
769	6/15/2021 12:56	12TH FLOOR	CORRIDOR	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
770	6/15/2021 12:57	12TH FLOOR	CORRIDOR	B	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
771	6/15/2021 12:57	12TH FLOOR	CORRIDOR	C	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
772	6/15/2021 12:57	12TH FLOOR	CORRIDOR	D	BASEBOARD	WOOD	WHITE	INTACT	0.01	Negative
773	6/15/2021 13:02	11TH FLOOR	CORRIDOR	A	WALL	DRYWALL	WHITE	DETERIORATED	0.01	Negative
774	6/15/2021 13:02	11TH FLOOR	CORRIDOR	B	WALL	DRYWALL	WHITE	INTACT	0.05	Negative
775	6/15/2021 13:02	11TH FLOOR	CORRIDOR	C	WALL	DRYWALL	WHITE	DETERIORATED	0.01	Negative
776	6/15/2021 13:04	11TH FLOOR	CORRIDOR	D	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
777	6/15/2021 13:04	11TH FLOOR	CORRIDOR	CEILING	CEILING	CONCRETE	WHITE	INTACT	0.03	Negative
778	6/15/2021 13:04	11TH FLOOR	CORRIDOR	A	DOOR	METAL	GREEN	INTACT	0.01	Negative
779	6/15/2021 13:05	11TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0.19	Negative
780	6/15/2021 13:05	11TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	INTACT	0.22	Negative
781	6/15/2021 13:05	11TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0.25	Negative
782	6/15/2021 13:06	11TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	INTACT	0.4	Negative
783	6/15/2021 13:06	11TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0.07	Negative
784	6/15/2021 13:06	11TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	INTACT	0.12	Negative
785	6/15/2021 13:07	11TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	INTACT	0.04	Negative
786	6/15/2021 13:07	11TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0.17	Negative
787	6/15/2021 13:07	11TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	INTACT	0.06	Negative
788	6/15/2021 13:08	11TH FLOOR	CORRIDOR	A	BASEBOARD	WOOD	WHITE	INTACT	0.01	Negative
789	6/15/2021 13:08	11TH FLOOR	CORRIDOR	B	BASEBOARD	WOOD	WHITE	INTACT	0.05	Negative
790	6/15/2021 13:10	11TH FLOOR	CORRIDOR	C	BASEBOARD	WOOD	WHITE	INTACT	0.01	Negative

## 21-1178 - Northgate Terrace - 4301 Whittle Springs Road, Knoxville, TN 37917 - All XRF Readings

Reading	Date/Time	Site	Room	Side	Component	Substrate	Color	Condition	Pb mg/cm <sup>2</sup>	Result
791	6/15/2021 13:10	11TH FLOOR	CORRIDOR	D	BASEBOARD	WOOD	WHITE	INTACT	0.03	Negative
792	6/15/2021 13:21	10TH FLOOR	CORRIDOR	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
793	6/15/2021 13:23	10TH FLOOR	CORRIDOR	B	WALL	DRYWALL	WHITE	INTACT	0.1	Negative
794	6/15/2021 13:23	10TH FLOOR	CORRIDOR	C	WALL	DRYWALL	WHITE	INTACT	0.03	Negative
795	6/15/2021 13:24	10TH FLOOR	CORRIDOR	D	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
796	6/15/2021 13:24	10TH FLOOR	CORRIDOR	CEILING	CEILING	CONCRETE	WHITE	INTACT	0.04	Negative
797	6/15/2021 13:25	10TH FLOOR	CORRIDOR	A	DOOR	METAL	GREEN	DETERIORATED	0.02	Negative
798	6/15/2021 13:25	10TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
799	6/15/2021 13:25	10TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	DETERIORATED	0	Negative
800	6/15/2021 13:26	10TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
801	6/15/2021 13:26	10TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	DETERIORATED	0.02	Negative
802	6/15/2021 13:28	10TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0.02	Negative
803	6/15/2021 13:28	10TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0	Negative
804	6/15/2021 13:29	10TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0.02	Negative
805	6/15/2021 13:29	10TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0	Negative
806	6/15/2021 13:29	10TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0	Negative
807	6/15/2021 13:30	10TH FLOOR	CORRIDOR	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
808	6/15/2021 13:30	10TH FLOOR	CORRIDOR	B	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
809	6/15/2021 13:30	10TH FLOOR	CORRIDOR	C	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
810	6/15/2021 13:31	10TH FLOOR	CORRIDOR	D	BASEBOARD	WOOD	WHITE	INTACT	0.01	Negative
811	6/15/2021 13:37	9TH FLOOR	CORRIDOR	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
812	6/15/2021 13:37	9TH FLOOR	CORRIDOR	B	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
813	6/15/2021 13:38	9TH FLOOR	CORRIDOR	C	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
814	6/15/2021 13:38	9TH FLOOR	CORRIDOR	D	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
815	6/15/2021 13:39	9TH FLOOR	CORRIDOR	CEILING	CEILING	CONCRETE	WHITE	INTACT	0	Negative
816	6/15/2021 13:39	9TH FLOOR	CORRIDOR	A	DOOR	METAL	GREEN	DETERIORATED	0	Negative
817	6/15/2021 13:39	9TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0.02	Negative
818	6/15/2021 13:40	9TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	DETERIORATED	0.01	Negative
819	6/15/2021 13:40	9TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
820	6/15/2021 13:42	9TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	DETERIORATED	0	Negative
821	6/15/2021 13:42	9TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
822	6/15/2021 13:43	9TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0.02	Negative
823	6/15/2021 13:43	9TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0	Negative
824	6/15/2021 13:45	9TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0	Negative
825	6/15/2021 13:45	9TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0	Negative
826	6/15/2021 13:47	9TH FLOOR	CORRIDOR	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
827	6/15/2021 13:47	9TH FLOOR	CORRIDOR	B	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
828	6/15/2021 13:47	9TH FLOOR	CORRIDOR	C	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
829	6/15/2021 13:47	9TH FLOOR	CORRIDOR	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
830	6/15/2021 13:49	8TH FLOOR	CORRIDOR	A	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
831	6/15/2021 13:49	8TH FLOOR	CORRIDOR	B	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
832	6/15/2021 13:49	8TH FLOOR	CORRIDOR	C	WALL	DRYWALL	WHITE	DETERIORATED	0.02	Negative
833	6/15/2021 13:50	8TH FLOOR	CORRIDOR	D	WALL	DRYWALL	WHITE	INTACT	0.03	Negative
834	6/15/2021 13:50	8TH FLOOR	CORRIDOR	CEILING	CEILING	CONCRETE	WHITE	INTACT	0.01	Negative
835	6/15/2021 13:51	8TH FLOOR	CORRIDOR	A	DOOR	METAL	GREEN	DETERIORATED	0.19	Negative
836	6/15/2021 13:51	8TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0.22	Negative
837	6/15/2021 13:53	8TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	DETERIORATED	0.25	Negative
838	6/15/2021 13:53	8TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0.4	Negative
839	6/15/2021 13:54	8TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	INTACT	0.07	Negative
840	6/15/2021 13:54	8TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0.12	Negative
841	6/15/2021 13:55	8TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0.04	Negative
842	6/15/2021 13:55	8TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0.02	Negative
843	6/15/2021 13:55	8TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0	Negative
844	6/15/2021 13:56	8TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	INTACT	0	Negative
845	6/15/2021 13:56	8TH FLOOR	CORRIDOR	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
846	6/15/2021 13:57	8TH FLOOR	CORRIDOR	B	BASEBOARD	WOOD	WHITE	INTACT	0.02	Negative
847	6/15/2021 13:57	8TH FLOOR	CORRIDOR	C	BASEBOARD	WOOD	WHITE	INTACT	0.02	Negative
848	6/15/2021 13:57	8TH FLOOR	CORRIDOR	D	BASEBOARD	WOOD	WHITE	INTACT	0.01	Negative
849	6/15/2021 14:00	7TH FLOOR	CORRIDOR	A	WALL	DRYWALL	WHITE	DETERIORATED	0.19	Negative
850	6/15/2021 14:00	7TH FLOOR	CORRIDOR	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
851	6/15/2021 14:02	7TH FLOOR	CORRIDOR	C	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
852	6/15/2021 14:02	7TH FLOOR	CORRIDOR	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
853	6/15/2021 14:04	7TH FLOOR	CORRIDOR	CEILING	CEILING	CONCRETE	WHITE	INTACT	0	Negative
854	6/15/2021 14:04	7TH FLOOR	CORRIDOR	A	DOOR	METAL	GREEN	INTACT	0.15	Negative
855	6/15/2021 14:06	7TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0.18	Negative
856	6/15/2021 14:06	7TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	INTACT	0.02	Negative
857	6/15/2021 14:06	7TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0.11	Negative
858	6/15/2021 14:08	7TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	INTACT	0.14	Negative
859	6/15/2021 14:08	7TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0.09	Negative
860	6/15/2021 14:08	7TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	INTACT	0.19	Negative
861	6/15/2021 14:09	7TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	INTACT	0.22	Negative
862	6/15/2021 14:09	7TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0.25	Negative
863	6/15/2021 14:09	7TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	INTACT	0.4	Negative
864	6/15/2021 14:10	7TH FLOOR	CORRIDOR	A	BASEBOARD	WOOD	WHITE	INTACT	0.07	Negative
865	6/15/2021 14:10	7TH FLOOR	CORRIDOR	B	BASEBOARD	WOOD	WHITE	INTACT	0.12	Negative
866	6/15/2021 14:10	7TH FLOOR	CORRIDOR	C	BASEBOARD	WOOD	WHITE	DETERIORATED	0.04	Negative
867	6/15/2021 14:10	7TH FLOOR	CORRIDOR	D	BASEBOARD	WOOD	WHITE	INTACT	0.02	Negative
868	6/15/2021 14:15	6TH FLOOR	CORRIDOR	A	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
869	6/15/2021 14:16	6TH FLOOR	CORRIDOR	B	WALL	DRYWALL	WHITE	INTACT	0.01	Negative

## 21-1178 - Northgate Terrace - 4301 Whittle Springs Road, Knoxville, TN 37917 - All XRF Readings

Reading	Date/Time	Site	Room	Side	Component	Substrate	Color	Condition	Pb mg/cm <sup>2</sup>	Result
870	6/15/2021 14:16	6TH FLOOR	CORRIDOR	C	WALL	DRYWALL	WHITE	DETERIORATED	0.3	Negative
871	6/15/2021 14:17	6TH FLOOR	CORRIDOR	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
872	6/15/2021 14:17	6TH FLOOR	CORRIDOR	CEILING	CEILING	CONCRETE	WHITE	INTACT	0	Negative
873	6/15/2021 14:18	6TH FLOOR	CORRIDOR	A	DOOR	METAL	GREEN	DETERIORATED	0	Negative
874	6/15/2021 14:18	6TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
875	6/15/2021 14:19	6TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	DETERIORATED	0	Negative
876	6/15/2021 14:19	6TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
877	6/15/2021 14:19	6TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	INTACT	0	Negative
878	6/15/2021 14:20	6TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
879	6/15/2021 14:20	6TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0.04	Negative
880	6/15/2021 14:20	6TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0.11	Negative
881	6/15/2021 14:22	6TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0.02	Negative
882	6/15/2021 14:22	6TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	INTACT	0	Negative
883	6/15/2021 14:22	6TH FLOOR	CORRIDOR	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
884	6/15/2021 14:23	6TH FLOOR	CORRIDOR	B	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
885	6/15/2021 14:23	6TH FLOOR	CORRIDOR	C	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
886	6/15/2021 14:23	6TH FLOOR	CORRIDOR	D	BASEBOARD	WOOD	WHITE	INTACT	0.15	Negative
887	6/15/2021 14:25	5TH FLOOR	CORRIDOR	A	DOOR	METAL	GREEN	INTACT	0.18	Negative
888	6/15/2021 14:25	5TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0.02	Negative
889	6/15/2021 14:25	5TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	INTACT	0.11	Negative
890	6/15/2021 14:27	5TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0.14	Negative
891	6/15/2021 14:27	5TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	INTACT	0.09	Negative
892	6/15/2021 14:28	5TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0.06	Negative
893	6/15/2021 14:28	5TH FLOOR	CORRIDOR	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
894	6/15/2021 14:29	5TH FLOOR	CORRIDOR	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
895	6/15/2021 14:29	5TH FLOOR	CORRIDOR	C	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
896	6/15/2021 14:30	5TH FLOOR	CORRIDOR	D	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
897	6/15/2021 14:30	5TH FLOOR	CORRIDOR	CEILING	CEILING	CONCRETE	WHITE	INTACT	0.04	Negative
898	6/15/2021 14:30	5TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0.02	Negative
899	6/15/2021 14:32	5TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0	Negative
900	6/15/2021 14:32	5TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0	Negative
901	6/15/2021 14:32	5TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0	Negative
902	6/15/2021 14:35	5TH FLOOR	CORRIDOR	A	BASEBOARD	WOOD	WHITE	INTACT	0.02	Negative
903	6/15/2021 14:35	5TH FLOOR	CORRIDOR	B	BASEBOARD	WOOD	WHITE	INTACT	0.02	Negative
904	6/15/2021 14:35	5TH FLOOR	CORRIDOR	C	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
905	6/15/2021 14:35	5TH FLOOR	CORRIDOR	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
906	6/15/2021 14:35	4TH FLOOR	CORRIDOR	A	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
907	6/15/2021 14:35	4TH FLOOR	CORRIDOR	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
908	6/15/2021 14:37	4TH FLOOR	CORRIDOR	C	WALL	DRYWALL	WHITE	DETERIORATED	0	Negative
909	6/15/2021 14:37	4TH FLOOR	CORRIDOR	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
910	6/15/2021 14:38	4TH FLOOR	CORRIDOR	CEILING	CEILING	CONCRETE	WHITE	DETERIORATED	0	Negative
911	6/15/2021 14:38	4TH FLOOR	CORRIDOR	A	DOOR	METAL	GREEN	INTACT	0.04	Negative
912	6/15/2021 14:39	4TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0.11	Negative
913	6/15/2021 14:39	4TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	DETERIORATED	0.02	Negative
914	6/15/2021 14:39	4TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	DETERIORATED	0	Negative
915	6/15/2021 14:40	4TH FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	INTACT	0	Negative
916	6/15/2021 14:40	4TH FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
917	6/15/2021 14:41	4TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	INTACT	0	Negative
918	6/15/2021 14:41	4TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	INTACT	0.15	Negative
919	6/15/2021 14:42	4TH FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0.18	Negative
920	6/15/2021 14:42	4TH FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	INTACT	0.02	Negative
921	6/15/2021 14:42	4TH FLOOR	CORRIDOR	A	BASEBOARD	WOOD	WHITE	INTACT	0.11	Negative
922	6/15/2021 14:43	4TH FLOOR	CORRIDOR	B	BASEBOARD	WOOD	WHITE	INTACT	0.14	Negative
923	6/15/2021 14:43	4TH FLOOR	CORRIDOR	C	BASEBOARD	WOOD	WHITE	DETERIORATED	0.09	Negative
924	6/15/2021 14:44	4TH FLOOR	CORRIDOR	D	BASEBOARD	WOOD	WHITE	INTACT	0.06	Negative
925	6/15/2021 14:44	3RD FLOOR	CORRIDOR	A	DOOR	METAL	GREEN	INTACT	0.03	Negative
926	6/15/2021 14:46	3RD FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0.12	Negative
927	6/15/2021 14:46	3RD FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	INTACT	0.01	Negative
928	6/15/2021 14:47	3RD FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0.4	Negative
929	6/15/2021 14:47	3RD FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	INTACT	0	Negative
930	6/15/2021 14:48	3RD FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
931	6/15/2021 14:48	3RD FLOOR	CORRIDOR	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
932	6/15/2021 14:49	3RD FLOOR	CORRIDOR	B	WALL	DRYWALL	WHITE	INTACT	0.01	Negative
933	6/15/2021 14:49	3RD FLOOR	CORRIDOR	C	WALL	DRYWALL	WHITE	INTACT	0.3	Negative
934	6/15/2021 14:49	3RD FLOOR	CORRIDOR	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
935	6/15/2021 14:50	3RD FLOOR	CORRIDOR	CEILING	CEILING	CONCRETE	WHITE	INTACT	0	Negative
936	6/15/2021 14:50	3RD FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0	Negative
937	6/15/2021 14:52	3RD FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0	Negative
938	6/15/2021 14:52	3RD FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0	Negative
939	6/15/2021 14:53	3RD FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0	Negative
940	6/15/2021 14:53	3RD FLOOR	CORRIDOR	A	BASEBOARD	WOOD	WHITE	INTACT	0.02	Negative
941	6/15/2021 14:54	3RD FLOOR	CORRIDOR	B	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
942	6/15/2021 14:54	3RD FLOOR	CORRIDOR	C	BASEBOARD	WOOD	WHITE	INTACT	0.05	Negative
943	6/15/2021 14:54	3RD FLOOR	CORRIDOR	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
944	6/15/2021 14:55	2ND FLOOR	CORRIDOR	A	DOOR	METAL	GREEN	INTACT	0	Negative
945	6/15/2021 14:55	2ND FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
946	6/15/2021 14:55	2ND FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	INTACT	0	Negative
947	6/15/2021 14:56	2ND FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0.01	Negative
948	6/15/2021 14:56	2ND FLOOR	CORRIDOR	A	DOOR	METAL	ORANGE	INTACT	0.3	Negative

21-1178 - Northgate Terrace - 4301 Whittle Springs Road, Knoxville, TN 37917 - All XRF Readings

Reading	Date/Time	Site	Room	Side	Component	Substrate	Color	Condition	Pb mg/cm2	Result
949	6/15/2021 14:57	2ND FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
950	6/15/2021 14:57	2ND FLOOR	CORRIDOR	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
951	6/15/2021 14:58	2ND FLOOR	CORRIDOR	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
952	6/15/2021 14:58	2ND FLOOR	CORRIDOR	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
953	6/15/2021 14:59	2ND FLOOR	CORRIDOR	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
954	6/15/2021 14:59	2ND FLOOR	CORRIDOR	CEILING	CEILING	CONCRETE	WHITE	INTACT	0	Negative
955	6/15/2021 14:59	2ND FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0.02	Negative
956	6/15/2021 15:00	2ND FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0	Negative
957	6/15/2021 15:00	2ND FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0.05	Negative
958	6/15/2021 15:02	2ND FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0	Negative
959	6/15/2021 15:02	2ND FLOOR	CORRIDOR	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
960	6/15/2021 15:02	2ND FLOOR	CORRIDOR	B	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
961	6/15/2021 15:05	2ND FLOOR	CORRIDOR	C	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
962	6/15/2021 15:05	2ND FLOOR	CORRIDOR	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
963	6/15/2021 15:10	1ST FLOOR	CORRIDOR	A	DOOR	METAL	WHITE	INTACT	0	Negative
964	6/15/2021 15:10	1ST FLOOR	CORRIDOR	A	DOOR FRAME	WOOD	WHITE	INTACT	0.04	Negative
965	6/15/2021 15:12	1ST FLOOR	CORRIDOR	A	WALL	DRYWALL	WHITE	INTACT	0.11	Negative
966	6/15/2021 15:13	1ST FLOOR	CORRIDOR	B	WALL	DRYWALL	WHITE	INTACT	0.02	Negative
967	6/15/2021 15:13	1ST FLOOR	CORRIDOR	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
968	6/15/2021 15:14	1ST FLOOR	CORRIDOR	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
969	6/15/2021 15:14	1ST FLOOR	CORRIDOR	CEILING	CEILING	CONCRETE	WHITE	INTACT	0	Negative
970	6/15/2021 15:15	1ST FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0	Negative
971	6/15/2021 15:15	1ST FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0.15	Negative
972	6/15/2021 15:16	1ST FLOOR	CORRIDOR	D	ELEVATOR DOOR	METAL	WHITE	DETERIORATED	0.18	Negative
973	6/15/2021 15:16	1ST FLOOR	CORRIDOR	D	ELEVATOR DOOR FRAME	METAL	WHITE	DETERIORATED	0.02	Negative
974	6/15/2021 15:17	1ST FLOOR	CORRIDOR	A	BASEBOARD	WOOD	WHITE	INTACT	0.11	Negative
975	6/15/2021 15:17	1ST FLOOR	CORRIDOR	B	BASEBOARD	WOOD	WHITE	INTACT	0.14	Negative
976	6/15/2021 15:18	1ST FLOOR	CORRIDOR	C	BASEBOARD	WOOD	WHITE	INTACT	0.09	Negative
977	6/15/2021 15:18	1ST FLOOR	CORRIDOR	D	BASEBOARD	WOOD	WHITE	INTACT	0.06	Negative
978	6/15/2021 15:19	BASEMENT	CORRIDOR	A	WALL	CONCRETE	WHITE	INTACT	0.03	Negative
979	6/15/2021 15:20	BASEMENT	CORRIDOR	B	WALL	CONCRETE	WHITE	INTACT	0	Negative
980	6/15/2021 15:20	BASEMENT	CORRIDOR	C	WALL	CONCRETE	WHITE	INTACT	0.15	Negative
981	6/15/2021 15:21	BASEMENT	CORRIDOR	D	WALL	CONCRETE	WHITE	INTACT	0.18	Negative
982	6/15/2021 15:21	BASEMENT	CORRIDOR	CEILING	CEILING	CONCRETE	WHITE	INTACT	0.02	Negative
983	6/15/2021 15:45	CALIBRATE							1.1	Positive
984	6/15/2021 15:45	CALIBRATE							1.1	Positive
985	6/15/2021 15:45	CALIBRATE							1.1	Positive
986	6/16/2021 9:29								2.23	
987	6/16/2021 9:31	CALIBRATE							1.1	Positive
988	6/16/2021 9:31	CALIBRATE							1.2	Positive
989	6/16/2021 9:32	CALIBRATE							1.1	Positive
990	6/16/2021 9:36	OFFICE 1	MAIN OFFICE	A	DOOR	METAL	WHITE	INTACT	0	Negative
991	6/16/2021 9:36	OFFICE 1	MAIN OFFICE	A	DOOR FRAME	METAL	WHITE	INTACT	0.01	Negative
992	6/16/2021 9:36	OFFICE 1	MAIN OFFICE	CEILING	CEILING	CONCRETE	WHITE	INTACT	0	Negative
993	6/16/2021 9:36	OFFICE 1	MAIN OFFICE	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
994	6/16/2021 9:36	OFFICE 1	MAIN OFFICE	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
995	6/16/2021 9:36	OFFICE 1	MAIN OFFICE	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
996	6/16/2021 9:36	OFFICE 1	MAIN OFFICE	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
997	6/16/2021 9:37	OFFICE 1	MANAGERS OFFICE	C	DOOR	WOOD	WHITE	INTACT	0	Negative
998	6/16/2021 9:37	OFFICE 1	MANAGERS OFFICE	C	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
999	6/16/2021 9:37	OFFICE 1	MANAGERS OFFICE	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
1000	6/16/2021 9:37	OFFICE 1	MANAGERS OFFICE	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
1001	6/16/2021 9:38	OFFICE 1	MANAGERS OFFICE	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
1002	6/16/2021 9:38	OFFICE 1	MANAGERS OFFICE	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
1003	6/16/2021 9:38	OFFICE 1	MANAGERS OFFICE	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
1004	6/16/2021 9:38	ACTIVITIES ROOM	ACTIVITIES ROOM	C	DOOR	WOOD	WHITE	INTACT	0	Negative
1005	6/16/2021 9:38	ACTIVITIES ROOM	ACTIVITIES ROOM	C	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
1006	6/16/2021 9:38	ACTIVITIES ROOM	ACTIVITIES ROOM	D	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
1007	6/16/2021 9:38	ACTIVITIES ROOM	ACTIVITIES ROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
1008	6/16/2021 9:39	ACTIVITIES ROOM	ACTIVITIES ROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
1009	6/16/2021 9:39	ACTIVITIES ROOM	ACTIVITIES ROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
1010	6/16/2021 9:39	ACTIVITIES ROOM	ACTIVITIES ROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
1011	6/16/2021 9:39	ACTIVITIES ROOM	ACTIVITIES ROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0.01	Negative
1012	6/16/2021 9:39	ACTIVITIES ROOM	REC ROOM	A	DOOR	WOOD	WHITE	INTACT	0	Negative
1013	6/16/2021 9:39	ACTIVITIES ROOM	REC ROOM	A	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
1014	6/16/2021 9:39	ACTIVITIES ROOM	REC ROOM	A	BASEBOARD	WOOD	WHITE	INTACT	0	Negative
1015	6/16/2021 9:39	ACTIVITIES ROOM	REC ROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
1016	6/16/2021 9:40	ACTIVITIES ROOM	REC ROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
1017	6/16/2021 9:40	ACTIVITIES ROOM	REC ROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
1018	6/16/2021 9:40	ACTIVITIES ROOM	REC ROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
1019	6/16/2021 9:40	ACTIVITIES ROOM	REC ROOM	CEILING	CEILING	DRYWALL	WHITE	INTACT	0	Negative
1020	6/16/2021 9:40	LAUNDRY	LAUNDRY ROOM	B	DOOR	WOOD	WHITE	INTACT	0	Negative
1021	6/16/2021 9:40	LAUNDRY	LAUNDRY ROOM	B	DOOR FRAME	WOOD	WHITE	INTACT	0	Negative
1022	6/16/2021 9:40	LAUNDRY	LAUNDRY ROOM	A	WALL	DRYWALL	WHITE	INTACT	0	Negative
1023	6/16/2021 9:41	LAUNDRY	LAUNDRY ROOM	B	WALL	DRYWALL	WHITE	INTACT	0	Negative
1024	6/16/2021 9:41	LAUNDRY	LAUNDRY ROOM	C	WALL	DRYWALL	WHITE	INTACT	0	Negative
1025	6/16/2021 9:41	LAUNDRY	LAUNDRY ROOM	D	WALL	DRYWALL	WHITE	INTACT	0	Negative
1026	6/16/2021 9:41	LAUNDRY	LAUNDRY ROOM	CEILING	CEILING	CONCRETE	WHITE	INTACT	0	Negative
1027	6/16/2021 9:41	STAIRWELL	STAIRWELL 1	A	DOOR FRAME	METAL	WHITE	INTACT	0	Negative

## 21-1178 - Northgate Terrace - 4301 Whittle Springs Road, Knoxville, TN 37917 - All XRF Readings

Reading	Date/Time	Site	Room	Side	Component	Substrate	Color	Condition	Pb mg/cm2	Result
1028	6/16/2021 9:41	STAIRWELL	STAIRWELL 1	A	DOOR	METAL	WHITE	INTACT	0	Negative
1029	6/16/2021 9:41	STAIRWELL	STAIRWELL 1	A	WALL	CONCRETE	WHITE	INTACT	0	Negative
1030	6/16/2021 9:42	STAIRWELL	STAIRWELL 1	B	WALL	CONCRETE	WHITE	INTACT	0	Negative
1031	6/16/2021 9:42	STAIRWELL	STAIRWELL 1	C	WALL	CONCRETE	WHITE	INTACT	0.01	Negative
1032	6/16/2021 9:42	STAIRWELL	STAIRWELL 1	D	WALL	CONCRETE	WHITE	INTACT	0	Negative
1033	6/16/2021 9:42	STAIRWELL	STAIRWELL 1	CEILING	CEILING	CONCRETE	WHITE	INTACT	0	Negative
1034	6/16/2021 9:43	STAIRWELL	STAIRWELL 1	A	LANDING	CONCRETE	RED	INTACT	0	Negative
1035	6/16/2021 9:43	STAIRWELL	STAIRWELL 1	B	HANDRAIL	METAL	BROWN	DETERIORATED	2.1	Positive
1036	6/16/2021 9:43	STAIRWELL	STAIRWELL 1	B	HANDRAIL	METAL	BROWN	DETERIORATED	2.9	Positive
1037	6/16/2021 9:44	STAIRWELL	STAIRWELL 2	A	DOOR	METAL	WHITE	INTACT	0	Negative
1038	6/16/2021 9:44	STAIRWELL	STAIRWELL 2	A	DOOR FRAME	METAL	WHITE	INTACT	0	Negative
1039	6/16/2021 9:44	STAIRWELL	STAIRWELL 2	A	WALL	CONCRETE	WHITE	INTACT	0	Negative
1040	6/16/2021 9:45	STAIRWELL	STAIRWELL 2	B	WALL	CONCRETE	WHITE	INTACT	0	Negative
1041	6/16/2021 9:45	STAIRWELL	STAIRWELL 2	C	WALL	CONCRETE	WHITE	INTACT	0	Negative
1042	6/16/2021 9:45	STAIRWELL	STAIRWELL 2	D	WALL	CONCRETE	WHITE	INTACT	0	Negative
1043	6/16/2021 9:46	STAIRWELL	STAIRWELL 2	CEILING	WALL	CONCRETE	WHITE	INTACT	0	Negative
1044	6/16/2021 9:46	STAIRWELL	STAIRWELL 2	A	LANDING	CONCRETE	RED	INTACT	0	Negative
1045	6/16/2021 9:47	STAIRWELL	STAIRWELL 2	C	HANDRAIL	METAL	BROWN	INTACT	3.2	Positive
1046	6/16/2021 9:47	STAIRWELL	STAIRWELL 2	C	HANDRAIL	METAL	BROWN	INTACT	3.8	Positive
1047	6/16/2021 9:53	EXTERIOR	EXTERIOR	A	WALL	CONCRETE	WHITE	INTACT	0	Negative
1048	6/16/2021 9:53	EXTERIOR	EXTERIOR	B	WALL	CONCRETE	WHITE	INTACT	0.02	Negative
1049	6/16/2021 9:53	EXTERIOR	EXTERIOR	C	WALL	CONCRETE	WHITE	INTACT	0.03	Negative
1050	6/16/2021 9:53	EXTERIOR	EXTERIOR	D	WALL	CONCRETE	WHITE	INTACT	0.03	Negative
1051	6/16/2021 9:53	EXTERIOR	EXTERIOR	B	HANDRAIL	METAL	BLACK	DETERIORATED	1.3	Positive
1052	6/16/2021 9:53	EXTERIOR	EXTERIOR	B	HANDRAIL	METAL	BLACK	DETERIORATED	1.6	Positive
1053	6/16/2021 10:10	CALIBRATE							1.1	Positive
1054	6/16/2021 10:10	CALIBRATE							1.1	Positive
1055	6/16/2021 10:11	CALIBRATE							1.1	Positive



## **C-3: XRF READINGS POSITIVE FOR LEAD**

## 21-1178 - Northgate Terrace - 4301 Whittle Springs Road, Knoxville, TN 37917 - Positive XRF Readings

Reading	Date/Time	Site	Room	Side	Component	Substrate	Color	Condition	Pb mg/cm2	Result
1035	6/16/2021 9:43	STAIRWELL	STAIRWELL 1	B	HANDRAIL	METAL	BROWN	DETERIORATED	2.1	Positive
1036	6/16/2021 9:43	STAIRWELL	STAIRWELL 1	B	HANDRAIL	METAL	BROWN	DETERIORATED	2.9	Positive
1051	6/16/2021 9:53	EXTERIOR	EXTERIOR	B	HANDRAIL	METAL	BLACK	DETERIORATED	1.3	Positive
1052	6/16/2021 9:53	EXTERIOR	EXTERIOR	B	HANDRAIL	METAL	BLACK	DETERIORATED	1.6	Positive
1045	6/16/2021 9:47	STAIRWELL	STAIRWELL 2	C	HANDRAIL	METAL	BROWN	INTACT	3.2	Positive
1046	6/16/2021 9:47	STAIRWELL	STAIRWELL 2	C	HANDRAIL	METAL	BROWN	INTACT	3.8	Positive

## **C-4: PERFORMANCE CHARACTERISTIC SHEETS**

An XRF Performance Characteristic Sheet defines acceptable operating specifications and procedures for each model of X-Ray Fluorescence (XRF) lead-based paint analyzer. The make/brand and the model number for each XRF used in this lead-based paint inspection are listed in this report in Appendix C-3, XRF Calibration Documentation. The lead-based paint inspector was required to follow the XRF Performance Characteristic Sheet for the inspection activities described in this report.

The Performance Characteristic Sheet for most XRF models is posted on the U.S. Department of Housing and Urban Development's Office of Healthy Homes and Lead Hazard Control website, specifically, on the web page for the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*. (When this lead evaluation report was written, the web page was [www.hud.gov/offices/lead/guidelines/hudguidelines/index.cfm](http://www.hud.gov/offices/lead/guidelines/hudguidelines/index.cfm).) HUD has determined that the information provided in the Performance Characteristic Sheets it has posted to its website is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines*.

Readers interested in the operating specifications and procedures for the XRF(s) used can download the Performance Characteristic Sheet(s) from the web page above, or they can obtain the sheet(s) from the National Lead Information Clearinghouse, at 800-424-LEAD (toll-free). Persons with hearing or speech impediments may access the above telephone number via TTY by calling the toll-free Federal Information Relay Service at (800) 877-8339.

## Performance Characteristic Sheet

EFFECTIVE DATE: September 24, 2004

EDITION NO.: 1

### MANUFACTURER AND MODEL:

Make: Niton LLC

Tested Model: XLp 300

Source:  $^{109}\text{Cd}$ 

Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and XLp series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A.

XLp 300A, XLp 301A, XLp 302A and XLp 303A.

XLi 700A, XLi 701A, XLi 702A and XLi 703A.

XLp 700A, XLp 701A, XLp 702A and XLp 703A.

Note: The XLi and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

## FIELD OPERATION GUIDANCE

### OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

### XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm<sup>2</sup> (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm<sup>2</sup> in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm<sup>2</sup> film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

### SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is not needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

### INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm <sup>2</sup> )
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

## BACKGROUND INFORMATION

### EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

### OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

### SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

### EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multifamily housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If

the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

**TESTING TIMES:**

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)						
Substrate	All Data			Median for laboratory-measured lead levels (mg/cm <sup>2</sup> )		
	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile	Pb < 0.25	0.25 ≤ Pb < 1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

**CLASSIFICATION RESULTS:**

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

**DOCUMENTATION:**

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

## **APPENDIX D: CERTIFICATIONS, LICENSES, AND ACCREDITATIONS**

**D-1: Lead-Based Paint Inspector and Risk Assessor's License/Certification Information**

**D-2: Firm Lead License**

**D-3: Firm Radioactive Materials License**

## **D-1: LEAD-BASED PAINT INSPECTOR AND RISK ASSESSOR'S LICENSE/CERTIFICATION INFORMATION**



# THE STATE OF TENNESSEE



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

**Jeffrey A. Partlow**

2894 Jordan Wood Dr

Lawrenceville, GA 30024

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

Discipline	Type	Certification Number	Effective	Expires
Inspector	ReCertification	TNLBP2002-876-7668I	5/10/2021	5/30/2022
Risk Assessor	ReCertification	TNLBP2002-876-7669R	5/10/2021	5/30/2022

Under the Seal of the State of Tennessee

This 10 day of May 2021.

Department of Environment and Conservation

# THE STATE OF TENNESSEE

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

**Kathryn Hubicki**

2121 Commonwealth Ave., Suite 202

Charlotte, NC 28205

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

Discipline	Type	Certification Number	Effective	Expires
Inspector	ReCertification	TNLBP2012-2680-6915I	5/1/2019	4/30/2022
Risk Assessor	ReCertification	TNLBP2012-2680-6916R	5/1/2019	4/30/2022

STATE OF TENNESSEE  
DEPARTMENT OF ENVIRONMENT & CONSERVATION  
LEAD HAZARD PROGRAM- CERTIFICATION ID CARD  
TNLBP2012-2680-6916R/6915



Kathryn		HUBICKI		
DOB	SEX	HGT	WGT	
06/16/1981	F	5' 5"	225	
DISCIPLINE	ISSUED	EXPIRES	TYPE	
WORKER				
SUPERVISOR				
PROJECT DESIGNER				
INSPECTOR	05/01/2019	04/30/2022	2YR	
RISK ASSESSOR	05/01/2019	04/30/2022	2YR	

TNLBP2012-2680-6916R/6915

Kathryn  
HUBICKI

Under the Seal of the State of Tennessee

This 15 day of May 2019.

Department of Environment and Conservation



## **D-2: FIRM LEAD LICENSE**

# THE STATE OF TENNESSEE

By virtue of the certification requirements in Rule Chapter 1200-01-18  
**One Source Environmental**

3717 Latrobe Drive, STE 760

Charlotte, NC

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

Certification Number	Effective	Expires
Type: Annual Reg 2nd Yr		
FTN-2000-49-6205A	5/28/2018	5/28/2019
Type: ReCertification		
FTN-2000-49-6917R	5/28/2019	5/27/2022

Under the Seal of the State of Tennessee

This 15 day of May 2019 .

Department of Environment and Conservation



## **D-3: FIRM RADIOACTIVE MATERIALS LICENSE**



**RADIOACTIVE MATERIALS LICENSE**

Pursuant to North Carolina Regulations for Protection Against Radiation and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer, and import radioactive materials listed below; and use such radioactive material for the purpose(s) and at the place(s) designated below. This License is subject to all applicable rules and regulations of the North Carolina Radiation Protection Section now and hereafter in effect and to any conditions specified below.

<p>1. Licensee Name: One Source Environmental, LLC</p> <p>2. a. Physical Address: 3717 Latrobe Drive, Suite 760 Charlotte, NC 28211-4826</p>	<p>3. License No.: 060-0989-1</p> <p>4. Expiration Date: December 31, 2029</p> <p>Application Type: Renewal</p> <p>5. a. Amendment No.: 18 b. Issuance Date: March 2, 2020</p>
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6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license	9. Authorized use
A. COBALT 57	A. Sealed Source	A. Total Possession not to exceed 60.00 mCi. 4.00 source(s), not to exceed 15.00 mCi.	A. To be used in an RMD Model LPA-1 X-ray Fluorescence Analyzer to test for lead content in paint. Sealed Source & Device Registry No. MA-0573-D-103-B, with a leak test frequency of twelve months.
B. CADMIUM 109	B. Sealed Source	B. Total Possession not to exceed 200.00 mCi. 4.00 source(s), not to exceed 50.00 mCi.	B. To be used in a Niton Model XLp 300 analyzer to test for lead content in paint. Sealed Source & Device Registry No. MA-1159-D-101-B, with a leak test frequency of six months.
C. AMERICIUM-241 / BERYLLIUM	C. Sealed Source	C. Total Possession not to exceed 120.00 mCi. 4.00 source(s), not to exceed 30.00 mCi.	C. To be used in a Niton Model XLp 300 analyzer to test for lead content in paint. Sealed Source & Device Registry No. MA-1159-D-101-B, with a leak test frequency of six months.



**RADIOACTIVE MATERIALS BRANCH  
RADIATION PROTECTION SECTION  
N.C. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
RADIOACTIVE MATERIALS LICENSE**

- |  |   |  |   |
|--|---|--|---|
| <p>6. Byproduct, source, and/or special nuclear material</p> <p>D. COBALT 57</p> | <p>7. Chemical and/or physical form</p> <p>D. Sealed Source</p> | <p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>D. Total Possession not to exceed 40.00 mCi. 4.00 source(s), not to exceed 10.00 mCi.</p> | <p>9. Authorized use</p> <p>D. To be used in an Heuresis Model Pb200i X-ray Fluorescence Analyzer to test for lead content in paint and in qualitative analysis of soils and other bulk samples, dust wipes, and other thin-film samples to determine the concentration of elemental lead and other heavy elements. It can be used as a handheld device or mounted on a test stand for continuous operation. Sealed Source &amp; Device Registry No.MA-1397-D-101-B</p> |
|--|---|--|---|

**CONDITIONS**

10. The authorized place of receipt and storage of radioactive material is the licensee's address stated in condition 2a. above.
- A. Radioactive materials may be used at temporary jobsites of the licensee throughout the State of North Carolina in areas not under exclusive Federal jurisdiction (Federal installations such as military bases, V.A. Hospitals, etc.). Authorization for the use of radioactive materials at temporary jobsites under exclusive Federal Jurisdiction shall be obtained either by (1) filing a NRC Form 241 [10 CFR 150.20(b)], or (2) applying for reciprocity, or (3) applying for a specific license from the NRC if the length of the job is to exceed six (6) months.
- B. This condition does not prohibit the use of radioactive materials in other states; however, before radioactive materials can be used at a temporary jobsite in another state, authorization must be obtained from the State, if it is an Agreement state, or from the Nuclear Regulatory Commission for any non-Agreement State, either by filing for reciprocity or applying for a specific license.
11. The licensee shall comply with the provisions of 10A NCAC 15 .1600 "Standards for Protection Against Radiation," and 10A NCAC 15.1000 "Notices, Instructions, Reports and Inspections." (The North Carolina Regulations for Protection Against Radiation are contained in 10A NCAC 15.)



12. A. Licensed material shall only be used by:

Authorized Users

Kathryn O. Hubicki

Material and Use

OR individuals who (1) have successfully completed a manufacturers training program for gauge users, (2) have been instructed in the licensee's routine operating and emergency procedures, and (3) have been designated in writing as having completed these requirements by the Radiation Safety Officer.

- B. Records of these designations shall be maintained for three (3) years after the company no longer employs the individual.
- C. The licensee shall establish a method of identification and documentation of training for the persons authorized in condition A above. This shall be made available for review by the agency at the time of either a field or home office inspection.
- D. The Radiation Safety Officer for the activities authorized under this license shall be Kathryn O. Hubicki.
13. A. Each sealed source containing radioactive material, other than Hydrogen 3 with a half-life greater than thirty (30) days and in any form other than gas, shall be tested for leakage and/or contamination at intervals prescribed in the respective Registry of Radioactive Sealed Sources and Devices sheet. In the absence of a Registry of Radioactive Sealed Sources and Devices sheet, tests for leakage and/or contamination shall be conducted at intervals not to exceed six (6) months, except that each source designed for the purpose of emitting alpha particles shall be tested at intervals not to exceed three (3) months. In the absence of a certificate from a transferor indicating that a test has been made within six (6) months prior to the transfer, the sealed source shall not be put into use until tested.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or





RADIOACTIVE MATERIALS BRANCH  
RADIATION PROTECTION SECTION  
N.C. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
**RADIOACTIVE MATERIALS LICENSE**

stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the agency.

- C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with agency regulations. A report shall be filed within five (5) days of the test with the Radioactive Materials Branch, Radiation Protection Section, 1645 Mail Service, Raleigh, NC 27699-1600, describing the equipment involved, the test results, and the corrective action taken.
- D. Tests for leakage and /or contamination shall be performed by persons specifically authorized by the agency to perform such services.
14. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provision of Section 71.5, Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Material For Transport."
15. Sealed sources containing radioactive material shall not be opened or removed from their respective source holders by the licensee.
16. The licensee shall keep records for each device authorized in this license showing which authorized user has the device, the time and date the device was removed from storage, job where device was used and the time and date the device was placed back into storage. Records of use shall be kept for three (3) years for inspection by the agency or until they have been reviewed by the agency and if the records are determined to be satisfactory, then they may be disposed of.
17. The licensee shall conduct a physical inventory of all sealed sources received and possessed under this license at intervals not to exceed six (6) months. Records of the inventories shall be maintained for inspection by the agency and shall include the quantities and kinds of radioactive material, location of sources and the date of the inventory.
18. In addition to the possession limits in condition 8 above, the licensee shall further restrict the possession of licensed material to



RADIOACTIVE MATERIALS BRANCH  
RADIATION PROTECTION SECTION  
N.C. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
**RADIOACTIVE MATERIALS LICENSE**

quantities below the minimum limit specified in 10A NCAC 15 .0353 for establishing decommissioning financial assurance.

19. The licensee shall annually review its Radiation Protection Program for content and implementation [Reference 10A NCAC 15 .1603(c)]. Documentation of the Radiation Protection Program reviews shall be retained for inspection by the agency [Reference: 10A NCAC 15 .1636].
20. The licensee shall institute the provisions of 10A NCAC 15 .1610 when an occupationally exposed woman voluntarily informs her supervisor, in writing, of the pregnancy and the estimated date of conception.
21. The licensee shall ensure that no individual "member of the public" [Reference: 10A NCAC 15 .0104(81)] receives a radiation dose in excess of the limits specified in 10A NCAC 15 .1611(a) while conducting licensed activities.
22. This license may be subject to amendment, revision, modification, suspension, or revocation in accordance with the provisions of 10A NCAC 15 .0344.
23. In addition to the possession limits referenced in Item 8. above, the licensee shall further restrict possession of radionuclides listed in the table found in the url listed below, to the quantities noted within the table. Sum of fractions for the radionuclides listed below shall not exceed unity: <https://www.nrc.gov/reading-rm/docollections/enforcement/security/2005/ml053130250.pdf>
24. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in conditions 6., 7., and 8. of this license in accordance with statements, representations and procedures and attachments listed below. The North Carolina Regulations for Protection Against Radiation shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
  - A. Application for renewal with attachments dated October 24, 2019, signed by Kathryn Hubicki, President and RSO, and additional commitments and procedures received by email on February 14, 2020.

**NORTH CAROLINA**



**RADIATION PROTECTION**

**RADIOACTIVE MATERIALS BRANCH  
RADIATION PROTECTION SECTION  
N.C. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
RADIOACTIVE MATERIALS LICENSE**

PAGE 6 OF 6 PAGES  
License Number 060-0989-1  
Amendment No. 18



*Caleb Smith*

For: W.Lee Cox, III

Chief, Radiation Protection Section

## **APPENDIX E: LEAD AND LEAD SAFETY RESOURCE DATA**

**E-1: Glossary**

**E-2: Resources for Additional Information**

## E-1: GLOSSARY

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**Abatement:** A measure or set of measures designed to permanently eliminate lead-based paint hazards or lead-based paint. Abatement strategies include the removal of lead-based paint, enclosure, encapsulation, replacement of building components coated with lead-based paint, removal of lead contaminated dust, and removal of lead contaminated soil or overlaying of soil with a durable covering such as asphalt (grass and sod are considered interim control measures). All of these strategies require preparation; cleanup; waste disposal; postabatement clearance testing; recordkeeping; and, if applicable, monitoring. See also Complete abatement and Interim controls.

**Accreditation:** A formal recognition certifying that an organization, such as a laboratory, is competent to carry out specific tasks or types of tests.

**Accuracy:** The degree of agreement between an observed value and an accepted reference value (a “true” value); a data quality indicator. Accuracy includes a combination of random errors (precision) and systematic errors (bias) due to sampling and analysis.

**Bare soil:** Soil not covered with grass, sod, some other similar vegetation, or paving, including the sand in sandboxes.

**Building component:** Any element of a building that may be painted or have dust on its surface, e.g., walls, stair treads, floors, railings, doors, windowsills, etc.

**Certification:** The process of testing and evaluating against certain specifications the competence of a person, organization, or other entity in performing a function or service, usually for a specified period of time.

**Certified:** The designation for Contractors who have completed training and other requirements to safely allow them to undertake risk assessments, inspections, or abatement work. risk assessors, inspectors, and Abatement Contractors should be certified by the appropriate local, State, or Federal agency.

**Chewable surface:** See **Chewed surface**.

**Chewed surface:** Any painted surface that shows evidence of having been chewed or mouthed by a young child. A chewed surface is usually a protruding, horizontal part of a building, such as an interior windowsill.

**Cleaning:** The process of using a vacuum and wet cleaning agents to remove leaded dust; the process includes the removal of bulk debris from the work area. OSHA prohibits the use of compressed air to clean lead-contaminated dust from a surface.

**Clearance examination:** Visual examination and collection of environmental samples by an inspector or risk assessor, or, in some circumstances, a Sampling Technician, and analysis by an accredited laboratory upon completion of an abatement project, interim control intervention, or maintenance job that disturbs lead-based paint (or paint suspected of being lead-based). The clearance examination is performed to ensure that lead exposure levels do not exceed standards established by the EPA Administrator pursuant to Title IV of the Toxic Substances Control Act, and that any cleaning following such work adequately meets those standards.

**Common area:** A room or area that is accessible to all residents in a community (e.g., hallways or lobbies); in general, any area not kept locked.

**Composite sample:** A single sample made up of individual subsamples. Analysis of a composite sample produces the arithmetic mean of all subsamples.

**Containment:** A process to protect workers and the environment by controlling exposures to the lead-contaminated dust and debris created during abatement.

**Deteriorated lead-based paint:** Any lead-based paint coating on a damaged or deteriorated surface or fixture, or any interior or exterior lead-based paint that is peeling, chipping, blistering, flaking, worn, chalking, alligating, cracking, or otherwise becoming separated from the substrate.

**Disposal (of waste):** The discharge, deposit, injection, dumping, spilling, leaking, or placement of solid or liquid waste on land or in water so that none of its constituents can pollute the environment by being emitted into the air or discharged into a body of water, including groundwater.

**Environmental Intervention Blood-Lead Level (EIBL) child:** A child who has a blood lead level at or above 20 µg/dL (micrograms of lead per deciliter of blood) in a single test or at 15-19 µg/dL in two tests taken at least 3 months apart.

**Encapsulation:** Any covering or coating that acts as a barrier between lead-based paint and the environment, the durability of which relies on adhesion and the integrity of the existing bonds between multiple layers of paint and between the paint and the substrate. See also **Enclosure**.

**Enclosure:** The use of rigid, durable construction materials that are mechanically fastened to the substrate to act as a barrier between the Lead-based paint and the environment.

**Evaluation:** Risk assessment, paint inspection, reevaluation, investigation, clearance examination, or risk assessment screen.

**Examination:** See **Clearance examination**.

**Federal Register (FR):** A daily Federal publication that contains proposed and final regulations, rules, and notices.

**Impact surface:** An interior or exterior surface (such as surfaces on doors) subject to damage by repeated impact or contact.

**Inspection (of paint):** A surface-by-surface investigation to determine the presence of lead-based paint (in some cases including dust and soil sampling) and a report of the results.

**Interim controls:** A set of measures designed to temporarily reduce human exposure or possible exposure to lead-based paint hazards. Such measures include specialized cleaning, repairs, maintenance, painting, temporary containment, and management and resident education programs. Monitoring, conducted by Owners, and reevaluations, conducted by professionals, are integral elements of interim control. Interim controls include dust removal; paint film stabilization; treatment of friction and impact surfaces; installation of soil coverings, such as grass or sod; and land use controls. See also **Monitoring, Reevaluation, and Abatement**.

**Interior windowsill:** The portion of the horizontal window ledge that protrudes into the interior of the room, adjacent to the window sash when the window is closed; often called the window stool.

**Latex:** A waterborne emulsion paint made with synthetic binders, such as 100 percent acrylic, vinyl acrylic, terpolymer, or styrene acrylic; a stable emulsion of polymers and pigment in water.

**Lead:** Lead includes metallic lead and inorganic and organic compounds of lead.

**Lead-based paint:** Any paint, varnish, shellac, or other coating that contains lead equal to or greater than 1.0 mg/cm<sup>2</sup> (milligrams of lead per square centimeter of surface) as measured by XRF or laboratory analysis, or 0.5 percent by weight (5,000 µg/g, 5,000 ppm (parts per million), or 5,000 mg/kg) as measured by laboratory analysis. (Local definitions may vary.)

**Lead-based paint hazard:** A condition in which exposure to lead from lead-contaminated dust, lead-contaminated soil, or deteriorated lead-based paint would have an adverse effect on human health (as established by the EPA Administrator under Title IV of the Toxic Substances Control Act). Lead-based paint hazards include, for example, deteriorated lead-based paint, leaded dust levels above applicable standards, and bare leaded soil above applicable standards.

**Lead-based paint hazard control:** Activities to control and eliminate lead-based paint hazards, including interim controls, abatement, and complete abatement.

**Lead-contaminated dust:** Surface dust in residences that contain an area concentration of lead in excess of the standard established by the EPA Administrator, pursuant to Title IV of the Toxic Substances Control Act. EPA standards for leaded dust for risk assessments are 40 µg/ft<sup>2</sup> (micrograms of lead per square foot) on floors and 250 µg/ft<sup>2</sup> on interior windowsills. The EPA standards for clearance are 40 µg/ft<sup>2</sup> on floors, 250 µg/ft<sup>2</sup> on interior windowsills and 400 µg/ft<sup>2</sup> on window troughs. The recommended standard for lead hazard screens for floors is 25 µg/ft<sup>2</sup> and for windowsills is 125 µg/ft<sup>2</sup>.

**Lead-contaminated soil:** Bare soil on residential property that contains lead in excess of the standard established by the EPA Administrator, pursuant to Title IV of the Toxic Substances Control Act. The standard is 400 µg/g in play areas and 1200 µg/g in the rest of the yard.

**Leaded dust:** See **Lead-contaminated dust**.

**Licensed:** Holding a valid license or certification issued by EPA or by an EPA-approved State program pursuant to Title IV of the Toxic Substances Control Act. The license is based on certification for lead-based paint hazard control work. See also **Certified**.

**Maintenance:** Work intended to maintain adequate living conditions in a dwelling, which has the potential to disturb lead-based paint or paint that is suspected of being lead-based.

**Mean:** The arithmetic average of a series of numerical data values; for example, the algebraic sum of the data values divided by the number of data values.

**Microgram (µg):** 1/1,000,000 of a gram; used to measure weight.

**Monitoring:** Surveillance to determine (1) that known or suspected lead-based paint is not deteriorating; (2) that lead-based paint hazard controls, such as paint stabilization, enclosure, or encapsulation have not failed; and (3) that structural problems do not threaten the integrity of hazard controls or of known or suspected.

**Owner:** A person, firm, corporation, guardian, conservator, receiver, trustee, executor, government agency or entity, or other judicial officer who, alone or with others, owns, holds, or controls the freehold or leasehold title or part of the title to property, with or without actually possessing it. This definition includes a vendee who possesses the title, but does not include a mortgagee or an Owner of a reversionary interest under a ground rent lease.

**Paint inspector:** An individual who has completed training from an accredited program and been licensed or certified by the appropriate State or local agency to (1) perform inspections to determine and report the presence of lead-based paint on a surface-by-surface basis through onsite testing, (2) report the findings of such an inspection, (3)

collect environmental samples for laboratory analysis, (4) perform clearance testing, and optionally (5) document successful compliance with lead-based paint hazard control requirements or standards.

**Paint removal:** An abatement strategy that entails the removal of lead-based paint from surfaces. For lead hazard control work, this can mean using chemicals, heat guns below 1,100° F, and certain *contained* abrasive methods. Open-flame burning, open-abrasive blasting, sandblasting, extensive dry scraping, and stripping in a poorly ventilated space using a volatile stripper are prohibited paint removal methods. Hydroblasting is not recommended.

**Plastic:** See **Polyethylene plastic**.

**Polyethylene plastic:** All references to polyethylene plastic refer to 6 mil plastic sheeting or polyethylene bags (or doubled bags if using 4 mil polyethylene bags), or any other thick plastic material shown to demonstrate at least equivalent dust containment performance. Plastic used to contain waste should be capable of completely containing the waste and, after being properly sealed, should remain leak tight with no visible signs of discharge during movement or relocation.

**Polyurethane:** An exceptionally hard and wear-resistant coating (created by the reaction of polyols with a multifunctional isocyanate); often used to seal wood floors following lead-based paint hazard control work and cleaning.

**Reevaluation:** In lead hazard control work, the combination of a visual assessment and collection of environmental samples performed by a certified risk assessor to determine if a previously implemented lead-based paint hazard control measure is still effective and if the dwelling remains lead-safe.

**Removal:** See **Paint removal**.

**Renovation:** Work that involves construction and/or home or building improvement measures such as window replacement, weatherization, remodeling, and repainting.

**Replacement:** A strategy of abatement that entails the removal of building components coated with lead-based paint (such as windows, doors, and trim) and the installation of new components free of lead-based paint.

**Resident:** A person who lives in a dwelling.

**Risk assessment:** An onsite investigation of a residential dwelling to discover any lead-based paint hazards. Risk assessments include an investigation of the age, history, management, and maintenance of the dwelling, and the number of children under age 6 and women of childbearing age who are residents; a visual assessment; limited environmental sampling (i.e., collection of dust wipe samples, soil samples, and deteriorated paint samples); and preparation of a report identifying acceptable abatement and interim control strategies based on specific conditions.

**Risk assessor:** A certified individual who has completed training with an accredited training program and who has been certified to (1) perform risk assessments, (2) identify acceptable abatement and interim control strategies for reducing identified lead-based paint hazards, (3) perform clearance testing and reevaluations, and (4) document the successful completion of lead-based paint hazard control activities.

**Site:** The land or body of water where a facility is located or an activity is conducted. The site includes adjacent land used in connection with the facility or activity.

**Soil:** See **Bare soil**.

**Spectrum analyzer:** A type of XRF analyzer that provides the operator with a plot of the energy and intensity, or counts of both K and L x-ray spectra, as well as a calculated lead concentration. See also **XRF analyzer**.



**Standard deviation:** A measure of the precision of a reading; the spread of the deviation from the mean. The smaller the standard deviation, the more precise the analysis. The standard deviation is calculated by first obtaining the mean, or the arithmetic average, of all of the readings. A formula is then used to calculate how much the individual values vary from the mean—the standard deviation is the square root of the arithmetic average of the squares of the deviation from the mean. Many hand calculators have an automatic standard deviation function. See also **Mean**.

**Subsample:** A representative portion of a sample. A subsample may be either a field sample or a laboratory sample. A subsample is often combined with other subsamples to produce a composite sample. See also **Composite sample**.

**Substrate:** A surface on which paint, varnish, or other coating has been applied or may be applied. Examples of substrates include wood, plaster, metal, and drywall.

**Substrate effect:** The radiation returned to an XRF analyzer by the paint, substrate, or underlying material, in addition to the radiation returned by any lead present. This radiation, when counted as lead x-rays by an XRF analyzer contributes to substrate equivalent lead (bias). The inspector may have to compensate for this effect when using XRF analyzers. See also **XRF analyzer**.

**Substrate Equivalent Lead (SEL):** The XRF measurement taken on an unpainted surface; used to calculate the corrected lead concentration on a surface by using the following formula: Apparent Lead Concentration–Substrate Equivalent Lead = Corrected Lead Concentration. See also **XRF analyzer**.

**Target housing:** Any residential unit constructed before 1978, except dwellings that do not contain bedrooms or dwellings that were developed specifically for the elderly or persons with disabilities—unless a child younger than 6 resides or is expected to reside in the dwelling. In the case of jurisdictions that banned the sale or use of lead-based paint before 1978, the Secretary of HUD may designate an earlier date for defining target housing.

**Test location:** A specific area on a testing combination where XRF instruments will test for lead-based paint.

**Trained:** Successful completion of a training course in a particular discipline. For lead hazard control work, the training course must be accredited by EPA or by an EPA-approved State program, pursuant to Title IV of the Toxic Substances Control Act.

**Treatment:** In residential lead-based paint hazard control work, any method designed to control lead-based paint hazards. Treatment includes interim controls, abatement, and removal.

**Trough:** See **Window trough**.

**Windowsill:** See **Interior windowsill**.

**Window trough:** For a typical double-hung window, the portion of the exterior windowsill between the interior windowsill (or stool) and the frame of the storm window. If there is no storm window, the window trough is the area that receives both the upper and lower window sashes when they are both lowered. Sometimes inaccurately called the window “well.”

**Worker:** An individual who has completed training in an accredited program to perform Lead-based paint hazard control in housing.

**Worksite:** Any interior or exterior area where lead-based paint hazard control work takes place.

**XRF analyzer:** An instrument that determines lead concentration in milligrams per square centimeter ( $\text{mg}/\text{cm}^2$ ) using the principle of x-ray fluorescence (XRF). Two types of field portable XRF analyzers are used — direct readers

and spectrum analyzers. For this lead-based paint inspection, the term XRF analyzer only refers to portable instruments manufactured to analyze paint, that have a HUD Performance Characteristic Sheet, and are interpreted in accordance with the Performance Characteristic Sheet; it does not refer here to laboratory grade units or portable instruments designed to analyze soil.

## **E-2: RESOURCES FOR ADDITIONAL INFORMATION ON LEAD AND LEAD-BASED PAINT HAZARDS:**

### **HUD OFFICE OF HEALTHY HOMES AND HAZARD CONTROL:**

[www.hud.gov/offices/lead](http://www.hud.gov/offices/lead)  
202-755-1785, ext. 104  
[lead\\_regulations@hud.gov](mailto:lead_regulations@hud.gov)

### **THE ENVIRONMENTAL PROTECTION AGENCY'S LEAD PROGRAMS:**

[www.epa.gov/opptintr/lead](http://www.epa.gov/opptintr/lead)

### **NATIONAL LEAD INFORMATION CENTER & CLEARINGHOUSE:**

1-800-424 LEAD  
[www.epa.gov/lead/nlic.htm](http://www.epa.gov/lead/nlic.htm)

### **NATIONAL CENTER FOR HEALTHY HOUSING:**

410-992-0712  
[www.centerforhealthyhousing.org](http://www.centerforhealthyhousing.org)

### **LEAD AND ENVIRONMENTAL HAZARD ASSOCIATION**

1-800-590-6522  
301-924-0265  
[www.leha.org](http://www.leha.org)

### **THE ALLIANCE FOR HEALTHY HOMES:**

202-543-1147  
[www.afhh.org](http://www.afhh.org)

### **ADDITIONAL INFORMATION:**

Lists of recalled products containing lead: [www.safetyalerts.com](http://www.safetyalerts.com)

The Lead Listing – for information on lead-related service providers and EPA-accredited laboratories throughout the United States: [www.leadlisting.org](http://www.leadlisting.org)