

**LBP SURVEY REPORTS**

**LEAD BASED PAINT  
SURVEY REPORT**

**BUILDING(S): 9 and 13**



**LEAD-BASED PAINT SURVEY  
REPORTS FOR BUCHNER FAMILY HOUSING UNITS  
FORT McCLELLAN, ALABAMA**

**Introduction**

1. This is the Lead-Based Paint (LBP) field survey report for the Buchner Family Housing Units (Officer's Quarters) located at Fort McClellan, Alabama. This report documents the LBP field results for Quarters No. 9 and 13 from the Buchner area. A map, showing the locations of the units surveyed for LBP, appears as Plate 1.

2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The surveys were performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.

3. The LBP survey results for the two housing units tested appears in numerical order (by Unit No.) in the Appendix. A brief summary of the areas testing positive for LBP and a photograph of the buildings are provided. The actual field XRF readings follow the summary. The unit floorplans, showing the locations where positive XRF readings occurred, appear in the appendix.

4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test"<sup>(1)</sup> mode is normally used for routine readings. Readings testing "positive"<sup>(2)</sup> according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared ( $\text{mg}/\text{cm}^2$ ), whereas, "negative" refers to readings of  $0.7 \text{ mg}/\text{cm}^2$  or less. According to the HUD guidelines, positive readings for this instrument are greater than  $1.3 \text{ mg}/\text{cm}^2$ . "Inconclusive" readings are those that fall between  $0.7 \text{ mg}/\text{cm}^2$  and  $1.3 \text{ mg}/\text{cm}^2$ .

<sup>(1)</sup> The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

<sup>(2)</sup> **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	$\text{mg}/\text{cm}^2$
Test	0.7 - 1.3	$\text{mg}/\text{cm}^2$
Confirm	0.85 - 1.15	$\text{mg}/\text{cm}^2$

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5. The "action level" defined in the HUD Interim Guidelines is a lead concentration above 1.0 mg/cm<sup>2</sup>. Lead concentrations in this report are shown for both K-shell and L-shell in Table 1. The L-shell XRF reading is essentially for the top 1 or 2 surface paint layers, whereas, the K-shell is total lead applicable for multi-layered paint surfaces. HUD Guidelines specify that the K-Shell XRF reading be used for assigning positive determination.

6. In this report paint condition stated as "good" is defined as intact; "fair" as intact but worn (minor chips from wear and tear but no adhesion or substrate problems); "poor" as severely worn or no longer adhering or, substrate deterioration (e.g., peeling, flaking, cracking, etc.).

### Discussion

7. The Buchner Family Housing units are two story structures with a full basement. They are of concrete construction with wood frame windows and aluminum storm windows. All exterior trim is painted wood and the doors are a factory finished metal. The interior walls and ceilings are plaster and all trim components are wood. These units were reportedly built in 1930.

8. A total of one-hundred and thirty-six (136) XRF measurements were made at the two Buchner Housing units surveyed. Sixty-six (66) of those readings were determined to be positive for lead-based paint. Six (16) of the eighteen (18) exterior readings were positive for LBP and sixty (60) of the one-hundred and eighteen (118) interior readings were positive. The XRF results are summarized in Table 1. It lists the number of similar surfaces and components tested in separate categories. It also includes the number of positive XRF readings and percentages of positive tests in each category.

### Interior Summary

9. Based on the XRF readings from both units (Quarters No. 9 and 13), it is reasonable to assume that all interior paint contains positive levels of lead. The floors and ceilings are the only exceptions. The doors and door components, baseboards and moldings, shelves and shelf supports, beadboard ceilings, and stairway components all tested positive for lead-based paint. There are visual age differences in some of the window components.

The ones that appeared older, tested positive for LBP. A lot of inconclusive readings were obtained on plaster walls and ceilings.

Scrape sample analysis of the paint chips taken on these walls has determined that positive levels of lead-based paint is present. All plaster walls are considered positive for LBP.

**Exterior Summary**

10. All soffits and eaves, porch components, handrails, and exterior door components tested positive for lead-based paint. All windows, doors and exterior walls tested negative.

**Paint Condition**

11. All interior paint in Quarters No. 9 and 13 was in good condition. The LBP on the downspouts on Quarters No. 13 was the only exterior paint in poor condition.

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Table 1

## Summary Listing Components Tested At Quarter Nos. 9 and 13

COMPONENT	NUMBER TESTED	NUMBER POSITIVE	PERCENT POSITIVE
Exterior Components			
Porch Components and Handrails	5	2	40
Window Components	3	0	0
Door Components	3	2	67
Stucco and Concrete Walls	2	0	0
Doors	1	0	0
Trim (soffits, rafters, cornerboards)	1	1	100
Miscellaneous	2	1	50
Interior Components			
Doors	12	11	92
Door Components	14	11	79
Window Components	21	8	38
Plaster & Sheetrock Ceilings	11	0	0
Beadboard Wood Ceilings	4	3	75
Walls	21	17	81
Trim (baseboards, moldings)	9	6	67
Shelves and Shelf Supports	7	4	57
Floors (wood & concrete)	3	0	0
Stairway Components	11	5	45
Miscellaneous	6	1	17
TOTALS	136	72	53

**Buchner Family Housing Area, Fort McClellan, Alabama  
Lead-Based Paint Survey**

**Quarters No. 9**

Type Quarters: Three Bedrooms, Two Stories (approx. 4250 sq. ft.)  
Date Constructed: 1930  
Type Construction: Concrete with wood trim

Survey Summary:

1. Quarters No. 9 is a three bedroom, three bathroom, two story house with a full basement.
2. Positive levels of lead-based paint were detected throughout the interior of this house on all surfaces and components. On exterior surfaces, porch components and some trim tested positive for LBP.
3. A photograph of Quarters No. 9 appears below. The actual field XRF readings appear on the following pages. A generalized floorplan showing the specific locations in which positive readings occurred at Quarters No. 9, follows the XRF field readings.

**Field XRF Readings for Quarters 9  
Ft. McClellan, AL**

Note: Due to equipment problems in downloading field data from XRF instrument into computer, the following K-Shell and L-Shell values were lost. It is the practice of the survey teams to keep pencil copy notes of all positive and negative XRF measurements for this reason. For this unit (Quarters No. 9) the (+) represents positive values of lead-based paint and the (-) indicates a negative measurement.

Date Surveyed: 01 March 1994  
Surveyors: BL

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
7094030194125002	0.6	0.6	103	N/A	Calibration Check
7094030194125002	0.5	0.6	103	N/A	Calibration Check
7094030194125002	0.3	0.6	103	N/A	Calibration Check
7094030194125002	0.5	0.6	103	N/A	Calibration Check

**INTERIOR XRF READINGS**

**Room 1 (Dining Room)**

9.1.1	+			Good	White Plaster Wall
9.1.2	+			Good	White Wood Window Casing
9.1.3	-			Good	White Window Sill
9.1.4	-			Good	White Wood Window Sash
9.1.5	+			Good	White Wood Window Apron
9.1.6	-			Good	White Wood Window Well
9.1.7	-			Good	White Wood Valence
9.1.8	+			Good	White Wood Baseboard
9.1.9	-			Good	Stained Wood Floor
9.1.10	-			Good	White Plaster Ceiling
9.1.11	-			Good	White Wood Crown Molding

9.1.12	+	Good	White Wood Door
9.1.13	+	Good	White Wood Door Casing
9.1.14	+	Good	White Wood Door Jamb

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 9  
Ft. McClellan, AL**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
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**Room 2 (Kitchen)**

9.2.1	+			Good	White Wood Window Casing
9.2.2	-			Good	White Wood Window Apron
9.2.3	<b>inc</b>			Good	White Plaster Wall (Inconclusive-See Sample 9.1.1)
9.2.4	+			Good	White Wood Door Jamb
9.2.5	-			Good	White Wood Cabinet
9.2.6	-			Good	White Sheetrock Ceiling
9.2.7	-			Good	White Wood Crown Molding
9.2.8	-			Good	White Wood Window Sill
9.2.9	+			Good	White Wood Door Casing

**Room 3 (Hallway)**

9.3.1	-			Good	White Plaster Ceiling
9.3.2	<b>inc</b>			Good	White Plaster Wall (Inconclusive-See Sample 9.1.1)
9.3.3	+			Good	White Wood Door
9.3.4	+			Good	White Wood Door Jamb
9.3.5	+			Good	White Wood Stair

9.3.6	+	Good	Stringer White Wood Stair Riser
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Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 9  
Ft. McClellan, AL**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
=====	=====	=====	=====	=====	=====
<b>Room 3 (Continued)</b>					
	9.3.7	+		Good	White Wood Newell Post
	9.3.8	-		Good	Black Wood Handrail
	9.3.9	-		Good	White Wood Door Header
	9.3.10	<b>inc</b>		Good	White Wood Shelf Support (Inconclusive- See Sample
9.6.4)	9.3.11	-		Good	White Wood Shelf
	9.3.12	+		Good	White Wood Baseboard
<b>Room 4 (Living Room)</b>					
	9.4.1	<b>inc</b>		Good	White Plaster Wall (Inconclusive-See Sample 9.1.1)
	9.4.2	+		Good	White Wood Bookshelf
	9.4.3	-		Good	White Plaster Ceiling
	9.4.4	+		Good	White Wood Window Sill
	9.4.5	+		Good	White Wood Mantel

**Room 5 (Den)**

9.5.1	+	Good	Black Concrete Step
9.5.2	-	Good	White Wood Window Casing
9.5.3	+	Good	White Beadboard Ceiling
9.5.4	+	Good	White Plaster Wall

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 9  
Ft. McClellan, AL**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
=====	=====	=====	=====	=====	=====

**Room 6 (Bedroom)**

9.6.1	<b>inc</b>			Good	White Plaster Wall (Inconclusive-See Sample 9.1.1)
9.6.2	-			Good	White Wood Window Sash
9.6.3	+			Good	White Wood Baseboard
9.6.4	+			Good	White Wood Shelf Support
9.6.5	-			Good	White Wood Crown Molding
9.6.6	+			Good	White Wood Door

**Room 7 (Bedroom and Bathroom)**

9.7.1	+			Good	White Wood Window Frame
9.7.2	-			Good	White Wood Shelf
9.7.3	+			Good	White Wood Door

9.7.4	+	Good	Casing White Wood Door Jamb
9.7.5	-	Good	White Plaster Wall
9.7.6	-	Good	White Plaster Ceiling
9.7.7	-	Good	White Wood Wall

**Room 8 (Den)**

9.8.1	+	Good	White Beadboard Ceiling
9.8.2	-	Good	White Wood Window Sill
9.8.3	-	Good	Black Concrete Step
9.8.4	+	Good	White Wood Crown Molding

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 9  
Ft. McClellan, AL**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
=====	=====	=====	=====	=====	=====

**Room 9 (Bedroom)**

9.9.1	<b>inc</b>			Good	White Plaster Wall (Inconclusive-See Sample 9.1.1)
9.9.2	+			Good	White Wood Window Casing
9.9.3	-			Good	White Plaster Ceiling
9.9.4	-			Good	White Wood Curtain Valence
9.9.5	+			Good	White Wood Door

**Room 10 (Hallway and Bathroom)**

9.10.1	+			Good	White Wood Baseboard
9.10.2	-			Good	White Wood Attic

9.10.3	+	Good	Scuttle White Wood Door Jamb
9.10.4	+	Good	White Wood Door Casing
9.10.5	-	Good	White Plaster Wall

**Room 11 (Basement)**

9.11.1	+	Good	Brown Wood Wall
9.11.2	+	Good	Brown Wood Door Casing
9.11.3	+	Good	Green Wood Door
9.11.4	-	Good	White Concrete Wall
9.11.5	-	Good	White Concrete Floor
9.11.6	-	Good	Gray Stair Stringer
9.11.7	+	Good	White Wood Wall

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 9  
Ft. McClellan, AL**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
=====	=====	=====	=====	=====	=====

**EXTERIOR XRF READINGS**

9.1	-	Good	White Stucco Wall
9.2	-	Good	White Wood Door Jamb
9.3	+	Good	Brown Metal Handrail
9.4	-	Good	White Wood Window Frame
9.5	-	Good	Brown Metal Door
9.6	+	Good	Brown Wood Eave

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Buchner Family Housing Area, Fort McClellan, Alabama  
Lead-Based Paint Survey**

**Quarters No. 13**

Type Quarters: Three Bedrooms, Two Stories (approx. 4250 sq. ft.)  
Date Constructed: 1930  
Type Construction: Concrete with wood trim

Survey Summary:

1. Quarters No. 13 is a three bedroom, three bathroom, two story house with a full basement.
2. Positive levels of lead-based paint were detected throughout

the interior of this house on all surfaces and components. On exterior surfaces, porch components, soffits, trim and door components tested positive for LBP.

3. A photograph of Quarters No. 13 appears below. The actual field XRF readings appear on the following pages. A generalized floorplan showing the specific locations in which positive readings occurred at Quarters No. 13, follows the XRF field readings.

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Field XRF Readings for Quarters 13  
Ft. McClellan, AL

Date Surveyed: 01 March 1994

Surveyors: LM

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
7094030194070001	1.3	1.3	88	N/A	Calibration Check
7094030194070001	1.3	1.3	88	N/A	Calibration Check
7094030194070001	1.1	1.3	88	N/A	Calibration Check
7094030194070001	1.2	1.3	88	N/A	Calibration Check
7094030194070001	1.2	1.3	88	N/A	Calibration Check
0000	-0.0	-0.1	88	N/A	Blank
1.63	1.4	1.5	88	N/A	NIST Standard

INTERIOR XRF READINGS

Room 1 (Dining Room)						
13.1.1	<b>1.5</b>	0.1	88	Good	White Wood Window Sill	
13.1.2	<b>1.4</b>	0.1	88	Good	White Wood Window Apron	
13.1.3	0.1	-0.1	22	Good	White Wood Window Sash	
13.1.4	0.2	-0.0	22	Good	White Wood Window Casing	
13.1.5	1.1 <sup>(1)</sup>	0.1	352	Good	White Plaster Wall (Inconclusive-Scrape Sample Taken)	
13.1.6	<b>1.5</b>	0.1	88	Good	White Wood Baseboard	
13.1.7	0.9 <sup>(2)</sup>	0.1	352	Good	White Door Jamb (Inconclusive-Scrape Sample Taken)	

(<sup>1</sup>) Lab Analysis: Sample ID# 13.1.5 **negative** (Result = 0.13% Lead, Action Level ≥ 0.5% Lead)

(<sup>2</sup>) Lab Analysis: Sample ID# 13.1.7 **negative** (Result = 0.46% Lead, Action Level ≥ 0.5% Lead)

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 13  
Ft. McClellan, AL**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
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Room 1 (Continued)

13.1.8	1.1 <sup>(3)</sup>	0.0	88	Good	White Wood Door (Inconclusive-Scrape Sample Taken)
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13.1.9	0.2	-0.1	22	Good	White Plaster Ceiling
13.1.10	0.6	0.1	88	Good	White Wood Crown Molding

**Room 2 (Living Room)**

	13.2.1	-0.1	0.1	22	Good	White Wood Shelf
	13.2.2	<b>1.4</b>	0.1	88	Good	White Wood Window Casing
	13.2.3	<b>1.6</b>	0.1	88	Good	White Wood Door Jamb
	13.2.4	0.8	0.1	88	Good	White Plaster Wall (Inconclusive-See Scrape Sample Data 13.1.5)
Fireplace	13.2.5	0.3	0.0	22	Good	White Wood Mantel
	13.2.6	0.6	0.1	88	Good	White Wood Fireplace Trim

**Room 3 (Sunroom)**

Taken)	13.3.1	1.1 <sup>(4)</sup>	-0.0	88	Good	White Beadboard Ceiling (Inconclusive- Scrape Sample
	13.3.2	-0.2	-0.0	88	Good	White Wood Window Sill

<sup>(3)</sup> Lab Analysis: Sample ID# 13.1.8 **positive** (Result = 0.71% Lead, Action Level ≥ 0.5% Lead)

<sup>(4)</sup> Lab Analysis: Sample ID# 13.3.1 **negative** (Result = 0.46% Lead, Action Level ≥ 0.5% Lead)

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 13  
Ft. McClellan, AL**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
=====	=====	=====	=====	=====	=====

**Room 3 (Continued)**

13.3.3	<b>1.3</b>	0.1	115	Good	White Plaster Wall
13.3.4	0.6	0.7	88	Good	Black Concrete Threshold

**Room 4 (Kitchen/Pantry)**

13.4.1	<b>1.2</b>	0.1	88	Good	White Wood Door Jamb (Inconclusive-See Sample 13.2.3)
13.4.2	-0.1	-0.1	22	Good	White Wood Cabinet
13.4.3	<b>0.9</b>	0.0	88	Good	White Wood Door (Inconclusive-See Scrape Sample 13.1.8)
13.4.4	0.0	-0.1	22	Good	White Plaster Ceiling
13.4.5	0.1	0.0	22	Good	White Wood Shelf
13.4.6	1.1	0.1	88	Good	White Plaster Wall (Inconclusive-See Scrape Sample Data 13.1.5)
13.4.7	-0.1	-0.1	22	Good	White Wood Door Header

**Room 5 (Maid's Room)**

13.5.1	<b>1.1</b>	0.1	88	Good	White Wood Door (Inconclusive-See Scrape Sample 13.1.8)
13.5.2	0.0	0.0	88	Good	White Plaster Ceiling

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 13  
Ft. McClellan, AL**

ID#	K-Shell	L-Shell	Time	Condition	Comments
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mg/cm<sup>2</sup>   mg/cm<sup>2</sup>   seconds

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**Room 6 (Basement)**

13.6.1	<b>0.5</b>	0.5	88	Good	White Wood Wall
13.6.2	<b>2.1</b>	1.6	22	Fair	White Steel Column
13.6.3	-1.0	-0.2	22	Good	White Concrete Wall
13.6.4	<b>3.5</b>	2.2	22	Fair	Green Wood Screen Door
13.6.5	<b>1.4</b>	0.6	88	Fair	Green Wood Door
13.6.6	0.3	0.3	88	Fair	Grey Wood Stair Tread
13.6.7	<b>1.7</b>	0.9	88	Fair	White Wood Newel Post

**Room 7 (Hall/Stairwell)**

13.7.1	-0.5	0.0	22	Good	Black Wood Newel Post
13.7.2	0.4	0.0	88	Good	White Wood Newel Post

**Room 8 (Bedroom)**

13.8.1	0.2	-0.2	88	Good	White Wood Window Sill
13.8.2	<b>0.8</b>	0.0	88	Good	White Wood Door (Inconclusive-See Sample 13.1.8)
13.8.3	0.9	0.1	88	Good	White Plaster Wall (Inconclusive-See Sample 13.1.5)

**Room 9 (Bedroom)**

13.9.1	<b>1.4</b>	0.1	88	Good	White Plaster Wall
13.9.2	<b>1.4</b>	0.1	88	Good	White Wood Door

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 13**

Ft. McClellan, AL

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments		
Room 10 (Bedroom)							
13.10.1	0.8	0.1	88	Good	White Plaster Wall (Inconclusive-See Sample 13.9.1)		
13.10.2	1.4	0.1	88	Good	White Wood Door		
13.10.3	0.5	0.1	22	Good	White Plaster Ceiling		
13.10.4	1.7	0.0	88	Good	White Beadboard Ceiling		
7094030194124501	1.1	1.2	88	N/A	Calibration Check		
EXTERIOR XRF READINGS							
	13.1	-2.1	-0.2	22	Good	White Porch Column	
	13.2	<b>4.7</b>	2.4	88	Good	Brown Metal Handrail	
	13.3	<b>3.9</b>	0.0	22	Good	White Wood Door	
Jamb Door		13.4	<b>3.0</b>	-0.0	22	Good	White Wood Header
	13.5	-1.1	-0.2	22	Good	White Porch Ceiling	
	13.6	-2.3	-0.1	22	Good	Crete Concrete Wall	
	13.7	-1.1	-0.1	22	Good	Crete Concrete Window Sill	
	13.8	0.3	-0.0	88	Fair	White Wood Window Casing	
	13.9	<b>2.2</b>	0.7	22	Poor	Brown Metal Downspout Catch	
	13.10	-0.0	-0.1	22	Good	Brown Metal Handrail	
	13.11	0.2	0.1	22	Good	Brown Basement Hatch Door	
	13.12	<b>17.2</b>	2.8	22	Fair	Brown Wood Soffit	

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as

per HUD guidelines.

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## **APPENDIX**

SUMMARY REPORTS FOR FAMILY HOUSING UNITS:

Quarters No. 9

Quarters No. 13

**LEAD BASED PAINT  
SURVEY REPORT**

**BUILDING(S): 25B, 27A, 28A, 29A and 30A**



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**LEAD-BASED PAINT SURVEY  
REPORTS FOR BALTZELL FAMILY HOUSING UNITS  
FORT McCLELLAN, ALABAMA**

**Introduction**

1. This is the Lead-Based Paint (LBP) field survey report for the Baltzell Family Housing units located at Fort McClellan, Alabama. This report documents the LBP field results for these five quarters (quarters no. 25B, 27A, 28A, 29A, 30A). A map, showing the locations of the units surveyed for LBP, appears as Plate 1.
2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The surveys were performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.
3. The LBP survey results for the five housing units tested appears in numerical order (by unit no.) in the Appendix. A brief summary of the areas testing positive for LBP and a photograph of the buildings are provided. The actual field XRF readings follow the summary. The unit floorplans, showing the locations where positive XRF readings occurred, appear in the appendix.
4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test"<sup>(1)</sup> mode is normally used for routine readings. Readings testing "positive"<sup>(2)</sup> according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared ( $\text{mg}/\text{cm}^2$ ), whereas, "negative" refers to readings of  $0.7 \text{ mg}/\text{cm}^2$  or less. According to the HUD guidelines, positive readings for this instrument are greater than  $1.3 \text{ mg}/\text{cm}^2$ . "Inconclusive" readings are those that fall between  $0.7 \text{ mg}/\text{cm}^2$  and  $1.3 \text{ mg}/\text{cm}^2$ .

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<sup>(1)</sup> The XRF instrument "test" mode is a reading of approximately 60

seconds duration. Test of longer duration increases precision.

(2) **Inconclusive Range For XRF Spectrum Analyzer**

<b>Instrument Mode</b>	<b>Range</b>	<b>Units</b>
Screen	0.4 - 1.6	mg/cm <sup>2</sup>
Test	0.7 - 1.3	mg/cm <sup>2</sup>
Confirm	0.85 - 1.15	mg/cm <sup>2</sup>

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5. The "action level" defined in the HUD Interim Guidelines is a lead concentration above 1.0 mg/cm<sup>2</sup>. Lead concentrations in this report are shown for both K-shell and L-shell in Table 1. The L-shell XRF reading is essentially for the top 1 or 2 surface paint layers, whereas, the K-shell is total lead applicable for multi-layered paint surfaces. HUD Guidelines specify that the K-Shell XRF reading be used for assigning positive determination.

6. In this report paint condition stated as "good" is defined as intact; "fair" as intact but worn (minor chips from wear and tear but no adhesion or substrate problems); "poor" as severely worn or no longer adhering or, substrate deterioration (e.g., peeling, flaking, cracking, etc.).

### **Discussion**

7. The Baltzell Family Housing units are one story, three bedroom, duplexes reportedly built in 1957. They are of brick construction with wood frame windows and aluminum storm windows. Portions of the exteriors are covered with vinyl siding. The exterior trim is wood and vinyl.

8. A total of two-hundred and forty (240) XRF measurements were made at the five Baltzell Housing units surveyed. Seventy (70) of those readings were determined to be positive for lead-based paint. Sixteen (16) of the thirty-six (36) exterior readings were positive for LBP and fifty-four (54) of the two-hundred and four (204) interior readings were positive. The XRF results are summarized in Table 1. It lists the number of similar surfaces and components tested in separate categories. It also includes the number of positive XRF readings and percentages of positive tests in each category.

### **Interior Summary**

9. Based on the XRF readings, it is reasonable to assume that all baseboards, shelves and shelf supports contain positive levels of lead-based paint. In addition, many windows and door components tested positive. There are visual age differences in some of the window components and doors in all of these units. The ones that appeared older, tested positive for LBP, whereas, the newer components were negative.

#### **Exterior Summary**

10. All exposed paint on the exterior porch surfaces and components (ceilings, railings, posts, and upper trim) tested positive for lead-based paint. Soffits, rafters, and cornerboards beneath the aluminum or vinyl siding, should be considered positive for LBP.

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#### **Paint Condition**

11. The interior paint at the Baltzell housing units was in generally good condition. There was some paint considered to be in fair to poor condition on exterior surfaces (see appendices).

Prepared By: \_\_\_\_\_

Larry Martin  
Civil Engineering Tech.

Reviewed By: \_\_\_\_\_

Ray Willingham  
Geologist

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**Table 1**  
**Summary Listing Components Tested At Baltzell**

COMPONENT	NUMBER TESTED	NUMBER POSITIVE	PERCENT POSITIVE
Exterior Components			
Porch Components	12	11	92
Window Components	8	0	0
Metal Doors	3	0	0
Metal Door Components	1	0	0

Wood Door Components	3	1	33
Trim (e.g., soffits, rafters, cornerboards)	5	4	80
Wood Fences	2	0	0
Vinyl Siding	2	0	0
Interior Components			
Wood Doors	23	8	35
Metal Doors	8	2	25
Metal Sliding Doors & Tracks	4	1	25
Metal Door Components	17	2	12
Wood Door Components	6	0	0
Window Components	35	5	14
Plaster Ceilings	25	0	0
Sheetrock Ceilings	1	0	0
Plaster Walls	21	0	0
White Concrete Block Walls	6	0	0
Baseboards	32	24	75
Kitchen Cabinets	5	0	0
Shelves & Shelf Supports	19	12	63
Miscellaneous	2	0	0
TOTALS	240	70	29

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## APPENDIX

### SUMMARY REPORTS FOR FAMILY HOUSING UNITS:

Quarters No. 25B  
Quarters No. 27A  
Quarters No. 28A  
Quarters No. 29A  
Quarters No. 30A

**Baltzell Family Housing Area, Fort McClellan, Alabama  
Lead-Based Paint Survey**

**Quarters No. 25 B**

Type Quarters: Three Bedroom, Duplex (approx. 1500 sq. ft.)  
Date Constructed: 1957  
Type Construction: Brick

Survey Summary:

1. Quarters No. 25B is a three bedroom, two bathroom unit which is half of a two family duplex.
2. Positive levels of lead-based paint were detected on the porch components and upper trim on the exterior. In the interior, positive XRF readings were obtained on doors, baseboards and shelves.
3. A photograph of Quarters No. 25B appears below. The actual field XRF readings appear on the following pages. A generalized floorplan, showing the specific locations in which positive readings occurred at Quarters No. 25B, follows the XRF field readings.

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**Field XRF Readings for Quarters 25B  
Ft. McClellan, Alabama**

Date Surveyed: 02 February 1994

Surveyors: JS, BL

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
7094020294072501	0.5	0.6	95	N/A	Calibration Check
7094020294072501	0.6	0.6	95	N/A	Calibration Check
7094020294072501	0.6	0.6	95	N/A	Calibration Check
7094020294072501	0.6	0.6	95	N/A	Calibration Check
7094020294072501	0.6	0.6	95	N/A	Calibration Check
0000	-0.1	-0.2	95	N/A	Blank
1.02	0.9	1.2	95	N/A	NIST Standard

**INTERIOR XRF READINGS**

**Room 1 (Living Room)**

25B.1.1	0.2	0.1	95	Good	White Metal Door
25B.1.2	0.4	-0.1	95	Good	White Wood Door Casing
25B.1.3	0.0	-0.1	95	Good	White Wood Window Sill
25B.1.4	-0.0	-0.1	23	Fair	White Plaster Wall
25B.1.5	0.2	-0.1	95	Good	White Plaster Ceiling
25B.1.6	0.0	-0.2	23	Good	White Concrete Block Wall
25B.1.7	4.0	0.2	23	Good	White Wood Baseboard
25B.1.8	0.6	-0.1	95	Good	White Metal Door Jamb

25B.1.9	2.4	0.3	23	Good	White Wood Baseboard
25B.1.10	4.2	0.4	23	Good	White Wood Door
25B.1.11	0.4	-0.1	95	Poor	White Heat Duct

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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Field XRF Readings for Quarters 25B  
Ft. McClellan, Alabama

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
Room 2 (Kitchen)					
25B.2.1	2.7	0.3	23	Good	White Wood Baseboard
25B.2.2	4.1	0.4	23	Good	White Wood Door
25B.2.3	0.6	-0.1	95	Good	White Metal Door Casing
25B.2.4	0.2	-0.0	23	Fair	White Wood Cabinet
25B.2.5	1.9	0.3	23	Good	White Wood Window Sill
25B.2.6	0.2	-0.1	23	Good	White Plaster Ceiling
25B.2.7	3.6	0.4	23	Good	White Wood Door
Room 3 (Hallway)					
25B.3.1	0.4	-0.1	95	Good	White Metal Door Track
25B.3.2	2.2	0.3	23	Good	White Wood Shelf

25B.3.3	1.9	0.1	23	Good	White Wood Shelf Support
25B.3.4	2.5	0.2	23	Good	White Wood Door
25B.3.5	3.2	0.2	23	Good	White Wood Baseboard
25B.3.6	-0.0	-0.1	95	Good	White Plaster Wall
25B.3.7	-0.0	-0.2	23	Good	White Wood Shelf
25B.3.8	0.2	-0.1	23	Good	White Plaster Ceiling
25B.3.9	3.2	0.4	23	Good	White Wood Door
25B.3.10	0.2	-0.2	23	Good	White Plaster Ceiling

Room 4 (Bedroom)

25B.4.1	2.4	0.3	23	Good	White Wood Shelf
25B.4.1	2.4	0.3	23	Good	Duplicate
7094020294093001	0.4	0.6	95	N/A	Calibration Check

Positive XRF Readings (if any) appear in Bold.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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Field XRF Readings for Quarters 25B  
Ft. McClellan, Alabama

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
=====	=====	=====	=====	=====	=====

Room 4 (Continued)

25B.4.2	2.7	0.2	23	Good	White Metal Sliding Doors
25B.4.3	3.3	0.4	23	Good	White Wood Baseboard
25B.4.4	0.1	-0.2	23	Good	White Plaster Wall
25B.4.5	-0.1	-0.2	23	Good	White Plaster Ceil

25B.4.6	-0.0	-0.1	23	Good	White Wood Window Casing
25B.4.7	0.2	-0.1	23	Good	White Wood Window Apron
25B.4.8	3.7	0.4	23	Good	White Wood Door
<b>Room 5 (Bedroom)</b>					
25B.5.1	0.5	-0.1	95	Good	White Metal Door Jamb
25B.5.2	-0.4	-0.1	23	Good	White Plaster Wall
25B.5.3	-0.1	-0.1	23	Good	White Wood Window Sill
25B.5.4	-0.0	-0.1	23	Good	White Wood Window Apron
25B.5.5	-0.2	-0.2	23	Good	White Plaster Ceiling
25B.5.6	3.0	0.3	23	Good	White Wood Baseboard
<b>Room 6 (Bedroom and ½ Bathroom)</b>					
25B.6.1	3.2	0.3	23	Good	White Wood Door
25B.6.2	-0.1	-0.1	23	Good	White Wood Window Sill
25B.6.3	0.2	-0.1	23	Good	White Wood Door Jamb
25B.6.4	0.1	-0.1	23	Good	White Plaster Ceiling
25B.6.5	-0.3	-0.1	23	Good	White Wood Baseboard

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 25B  
Ft. McClellan, Alabama**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
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**EXTERIOR XRF READINGS**

25B.1	5.6	0.7	95	Good	White Metal Porch Support
25B.2	7.7	0.7	23	Good	White Porch Railing
25B.3	4.8	0.4	23	Good	White Wood Porch Ceiling
25B.4	7.0	0.3	23	Good	White Wood Trim
25B.5	0.3	0.3	95	Good	Creme Metal Door
25B.6	0.3	-0.2	23	Good	Creme Door Casing
25B.7	0.1	-0.0	23	Good	White Wood Window Frame
25B.8	-0.4	-0.1	23	Good	White Wood Window Frame
25B.9	-0.1	-0.1	23	Good	Red Fence
25B.9	-0.0	-0.2	23	Good	Duplicate
7094020294105001	0.5	0.5	95	N/A	Calibration Check
25B.10	-0.1	-0.1	95	Good	Vinyl Siding
25B.11	0.2	0.2	95	Good	White Metal Door
7094020294133002	0.4	0.6	95	N/A	Calibration Check

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings.

per HUD guidelines.

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**Baltzell Family Housing Area, Fort McClellan, Alabama  
Lead-Based Paint Survey**

**Quarters No. 27 A**

Type Quarters: Three Bedroom, Duplex (approx. 1500 sq. ft.)

Date Constructed: 1957

Type Construction: Brick

Survey Summary:

1. Quarters No. 27 A is a three bedroom, two bathroom unit which is half of a two family duplex.
2. Positive levels of lead-based paint were detected on the porch components and upper trim on the exterior. In the interior, positive XRF readings were obtained on doors, baseboards, shelves and original window components.
3. A photograph of Quarters No. 27 A appears below. The actual field XRF readings appear on the following pages. A generalized floorplan, showing the specific locations in which positive readings occurred, follows the XRF field readings.

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Field XRF Readings for Quarters 27A  
Ft. McClellan, AL

Date Surveyed: 02 February 1994

Surveyors: LM

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
7094020294133002	0.4	0.6	95	N/A	Calibration Check
<b>INTERIOR XRF READINGS</b>					
<b>Room 1 (Living Room)</b>					
27A.1.1	-0.6	-0.2	23	Good	White Concrete Block Wall
27A.1.2	-0.3	-0.2	23	Good	White Wood Baseboard
27A.1.3	0.2	0.1	95	Good	White Metal Door
27A.1.4	-0.2	-0.1	23	Good	White Wood Window Casing
27A.1.5	0.4	-0.1	23	Good	White Plaster Ceiling
27A.1.6	-0.0	-0.1	23	Good	White Plaster Wall
27A.1.7	0.1	-0.1	23	Good	White Wood Baseboard
27A.1.8	4.2	0.5	23	Good	White Wood Baseboard
27A.1.9	-0.1	-0.1	23	Good	White Wood Door
27A.1.10	0.5	-0.1	60	Good	White Metal Door Jamb
<b>Room 2 (Kitchen)</b>					
27A.2.1	4.4	0.5	23	Good	White Wood Window Sill
27A.2.2	-0.1	-0.1	23	Good	White Wood Cabinet

27A.2.3	0.0	-0.1	23	Good	White Wood Door
27A.2.4	0.1	-0.1	23	Good	White Plaster Ceiling
27A.2.5	2.5	0.3	23	Good	White Wood Baseboard
27A.2.6	-0.1	-0.1	23	Good	White Wood Door

**Room 3 (Hallway)**

27A.3.1	0.0	-0.1	23	Good	White Wood Door Casing
27A.3.2	0.0	-0.1	23	Good	White Plaster Wall

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 27A  
Ft. McClellan, AL**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
<b>Room 3 (Continued)</b>					
27A.3.3	<b>3.3</b>	0.6	23	Good	White Wood Baseboard
27A.3.4	0.2	-0.1	51	Good	White Wood Door
27A.3.5	-0.1	-0.1	23	Good	White Plaster Wall
27A.3.5	-0.0	-0.1	23	Good	Duplicate
7094020294141502	0.3	0.5	95	Good	Calibration Check
27A.3.6	0.5	-0.1	71	Good	White Metal Door Jamb
27A.3.7	0.3	-0.1	23	Good	White Plaster Ceiling
<b>Room 4 (Bedroom)</b>					
27A.4.1	0.1	-0.1	23	Good	White Plaster Wall
27A.4.2	0.0	0.1	23	Good	White Wood Window

27A.4.3	-0.0	-0.1	23	Good	Sill White Wood Window Apron
27A.4.4	<b>2.2</b>	0.4	23	Good	White Wood Baseboard
27A.4.5	0.3	-0.1	23	Good	White Wood Door

**Room 5 (Bedroom)**

27A.5.1	0.2	-0.1	95	Good	White Wood Window Frame
27A.5.2	<b>1.7</b>	0.6	23	Good	White Wood Shelf
27A.5.3	-0.1	-0.1	23	Good	White Plaster Ceiling
27A.5.4	-0.1	0.0	23	Good	White Wood Shelf Support

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell : total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 27A  
Ft. McClellan, AL**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
<b>Room 6 (Bedroom)</b>					
27A.6.1	-0.2	-0.1	23	Good	White Wood Window Sill
27A.6.2	-0.6	-0.3	23	Good	White Wood Baseboard
27A.6.3	0.3	-0.1	95	Good	White Wood Door

**EXTERIOR XRF READINGS**

27A.1	-0.3	-0.3	23	Good	White Porch Railing
27A.2	3.7	0.4	23	Good	White Wood Porch Ceiling
27A.3	7.3	0.9	23	Good	White Wood Trim
27A.4	1.3	-0.1	95	Good	White Wood Door Casing
27A.5	0.3	-0.0	23	Good	White Wood Window Frame
27A.6	0.2	-0.1	59	Good	Vinyl Siding
7094020294151001	0.5	0.5	95	N/A	Calibration Check

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Baltzell Family Housing Area, Fort McClellan, Alabama  
Lead-Based Paint Survey**

**Quarters No. 28 A**

Type Quarters: Three Bedroom, Duplex (approx. 1500 sq. ft.)  
Date Constructed: 1957  
Type Construction: Brick

Survey Summary:

1. Quarters No. 28 A is a three bedroom, two bathroom unit which is half of a two family duplex.
2. Positive levels of lead-based paint were detected on the porch components and upper trim on the exterior. In the interior, positive XRF readings were obtained on doors, baseboards, shelves and original window components. One metal door jamb also tested positive for LBP (see floorplan for exact location).
3. A photograph of Quarters No. 28 A appears below. The actual field XRF readings appear on the following pages. A generalized floorplan, showing the specific locations in which positive readings occurred, follows the XRF field readings.

**Field XRF Readings for Quarters 28A  
Ft. McClellan, AL**

Date Surveyed: 02 February 1994

Surveyors: LM,BS

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
7094020294151001	0.5	0.5	95	N/A	Calibration Check
<b>INTERIOR XRF READINGS</b>					
<b>Room 1 (Living Room)</b>					
28A.1.1	0.2	-0.1	23	Good	White Concrete Block Wall
28A.1.2	0.1	-0.2	23	Good	White Wood Window Sill
28A.1.3	0.5	-0.1	95	Good	White Metal Door Casing
28A.1.4	0.1	-0.1	23	Good	White Plaster Ceiling
28A.1.5	0.2	-0.1	23	Poor	White Plaster Wall
28A.1.6	4.6	0.3	23	Good	White Wood Baseboard
28A.1.7	0.2	-0.1	23	Good	White Wood Door
28A.1.8	0.6	-0.1	95	Good	White Metal Door Frame
<b>Room 2 (Kitchen)</b>					
28A.2.1	2.7	0.2	23	Good	White Wood Baseboard
28A.2.2	1.8	0.2	23	Good	White Wood Window Sill
28A.2.3	0.3	-0.1	23	Good	White Wood Cabinet Door
28A.2.4	-0.4	-0.1	23	Good	White Wood Shelf
28A.2.5	0.0	-0.1	23	Good	White Plaster Ceiling

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 28A  
Ft. McClellan, AL**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
<b>Room 3 (Bedroom)</b>					
28A.3.1	0.2	-0.1	95	Good	Window Apron
28A.3.2	<b>3.8</b>	0.4	20	Good	White Wood Baseboard
28A.3.3	-0.4	-0.2	23	Good	White Wood Window Sill
28A.3.4	-0.3	-0.1	20	Good	White Plaster Wall
28A.3.5	0.1	-0.1	23	Good	White Plaster Ceiling
28A.3.6	<b>4.3</b>	0.4	20	Good	White Metal Door
28A.3.7	<b>2.5</b>	0.1	81	Good	White Wood Shelf
28A.3.8	0.4	-0.1	95	Good	White Metal Door Jamb
<b>Room 4 (Bedroom)</b>					
28A.4.1	-0.0	-0.1	20	Good	White Wood Window Sill
28A.4.2	-0.1	-0.1	20	Good	White Wood Window Sash
28A.4.3	0.0	-0.1	20	Good	White Wood Window Casing
28A.4.4	0.2	-0.1	20	Good	White Plaster Wall
28A.4.5	<b>3.2</b>	0.1	20	Good	White Wood Shelf Support
28A.4.6	-0.1	-0.1	20	Good	White Plaster Ceiling
28A.4.7	<b>2.9</b>	0.2	20	Good	White Wood Baseboard

28A.4.8	0.4	-0.0	81	Good	White Metal Door Jamb
28A.4.9	0.0	-0.1	20	Good	White Wood Door
28A.4.9	0.2	-0.1	20	Good	Duplicate
7094020294162001	1.2	1.3	81	N/A	Calibration Check

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 28A  
Ft. McClellan, AL**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
<b>Room 5 (Bedroom)</b>					
28A.5.1	-0.5	-0.1	20	Good	White Plaster Wall
28A.5.2	0.2	-0.1	20	Good	White Wood Window Apron
28A.5.3	-0.1	-0.1	20	Good	White Wood Window Casing
28A.5.4	<b>1.4</b>	-0.0	81	Good	White Wood Door
28A.5.5	<b>1.8</b>	0.3	20	Good	White Wood Shelf
28A.5.6	-0.3	-0.1	20	Fair	White Wood Attic Scuttle
28A.5.7	-0.1	-0.1	20	Fair	White Sheetrock Ceiling
28A.5.8	<b>1.4</b>	0.0	81	Good	White Metal Door Jamb
28A.5.9	-0.3	-0.1	20	Good	White Wood Baseboard
28A.5.10	0.2	-0.1	20	Good	White Plaster Ceiling

28A.5.11	-0.4	-0.1	20	Good	White Wood Door Jamb
28A.5.12	0.1	-0.1	20	Good	White Wood Door

**Room 6 (Hallway and Bathroom)**

28A.6.1	1.9	0.4	23	Good	White Wood Shelf
28A.6.2	-0.1	-0.1	23	Good	White Wood Door Casing
28A.6.3	-0.8	-0.1	23	Good	White Plaster Wall
28A.6.3	-0.1	-0.1	23	Good	Duplicate
7094020294161001	0.5	0.5	95	N/A	Calibration Check
28A.6.4	2.5	0.2	23	Good	White Wood Baseboard
28A.6.5	0.4	-0.1	95	Good	White Metal Door Jamb
28A.6.6	0.1	-0.1	23	Good	White Plaster Ceiling
28A.6.7	0.3	-0.1	23	Fair	White Wood Door

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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27 September 1994

**Field XRF Readings for Quarters 28A  
Ft. McClellan, AL**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
7094020294152502	1.2	1.3	81	N/A	Calibration Check
7094020294162001	1.1	1.2	81	N/A	Calibration Check
1.63	1.0	1.4	81	N/A	NIST Standard
7094020294163501	0.3	0.6	95	N/A	Calibration Check
1.02	0.9	1.1	95	N/A	NIST Standard

**EXTERIOR READINGS**

28A.1	5.5	0.7	23	Fair	White Porch Raili
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28A.2	7.1	0.3	23	Good	White Wood Trim
28A.3	5.5	0.6	23	Good	White Wood Porch Ceiling
28A.4	0.4	-0.2	95	Good	White Wood Door Casing
28A.5	7.7	0.6	95	Fair	White Metal Porch Support
28A.6	-0.0	-0.0	23	Fair	White Wood Window Frame
28A.7	0.1	0.1	95	Good	Metal Door

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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27 September 1994

**Baltzell Family Housing Area, Fort McClellan, Alabama  
Lead-Based Paint Survey**

**Quarters No. 29 A**

Type Quarters: Three Bedroom, Duplex (approx. 1500 sq. ft.)  
Date Constructed: 1957  
Type Construction: Brick

Survey Summary:

1. Quarters No. 29 A is a three bedroom, two bathroom unit which is half of a two family duplex.
2. Positive levels of lead-based paint were detected on all porch components and upper trim on the exterior. In the interior, positive XRF readings were obtained on doors, baseboards, shelves and original window components.
3. A photograph of Quarters No. 29 A appears below. The actual field XRF readings appear on the following pages. A generalized floorplan showing the specific locations in which positive readings occurred, follows the XRF field readings.

**Field XRF Readings for Quarters 29A  
Ft. McClellan, AL**

Date Surveyed: 03 February 1994  
Surveyors: JS, BL

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
7094020394072001	0.4	0.6	95	N/A	Calibration Check
7094020394072001	0.4	0.6	95	N/A	Calibration Check
7094020394072001	0.4	0.6	95	N/A	Calibration Check
7094020394072001	0.4	0.6	95	N/A	Calibration Check
7094020394072001	0.7	0.6	95	N/A	Calibration Check
0000	-0.1	-0.1	95	N/A	Blank
1.02	0.9	1.1	95	N/A	NIST Standard

**INTERIOR XRF READINGS**

**Room 1 (Kitchen)**

29A.1.1	0.3	-0.1	23	Good	White Plaster Ceiling
29A.1.2	-0.0	-0.1	23	Good	White Wood Cabinet
29A.1.3	2.8	0.3	23	Good	White Window Sill
29A.1.4	0.1	-0.1	23	Good	White Plaster Wall
29A.1.5	3.4	0.3	23	Good	White Wood Baseboard
29A.1.6	0.1	-0.1	23	Good	White Wood Door
29A.1.7	0.6	-0.1	95	Good	White Metal Door Jamb

**Room 2 (Living Room)**

29A.2.1	0.2	-0.2	23	Good	White Wood Baseboard
29A.2.2	4.1	0.2	23	Good	White Wood Baseboard
29A.2.3	0.1	-0.2	95	Good	White Block Wall
29A.2.4	0.3	0.1	95	Good	White Metal Door
29A.2.5	-0.0	-0.1	23	Good	White Plaster Ceiling
29A.2.6	0.3	-0.1	23	Good	White Plaster Wall
29A.2.7	0.1	-0.1	23	Good	White Wood Window Sill

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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27 September 1994

**Field XRF Readings for Quarters 29A  
Ft. McClellan, AL**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
<b>Room 3 (Hallway)</b>					
29A.3.1	0.1	-0.1	95	Good	White Metal Sliding Doors
29A.3.2	<b>1.7</b>	0.3	23	Good	White Wood Shelf
29A.3.3	0.3	-0.1	95	Good	White Wood Door Casing
29A.3.4	0.4	-0.1	95	Good	White Metal Door Jamb
29A.3.5	-0.4	-0.1	23	Good	White Plaster Ceiling
29A.3.6	<b>1.7</b>	0.1	23	Good	White Wood Door
29A.3.6	<b>1.9</b>	0.1	23	Good	Duplicate
7094020394084501	0.3	0.6	95	N/A	Calibration Check
29A.3.7	-0.5	-0.1	23	Good	White Wall
<b>Room 4 (Bedroom)</b>					
29A.4.1	<b>2.1</b>	0.2	23	Good	White Wood Baseboard
29A.4.2	0.0	-0.1	23	Good	White Wood Window Apron
29A.4.3	<b>2.1</b>	0.2	23	Good	White Wood Shelf Support
29A.4.4	0.4	-0.1	95	Good	White Metal Door

29A.4.5	0.2	-0.1	23	Good	Track White Wood Door
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**Room 5 (Bedroom)**

29A.5.1	-0.2	-0.1	23	Good	White Plaster Wall
29A.5.2	<b>2.0</b>	0.2	23	Good	White Wood Baseboard
29A.5.3	0.0	-0.1	23	Good	White Wood Window Frame

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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27 September 1994

**Field XRF Readings for Quarters 29A  
Ft. McClellan, AL**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
<b>Room 5 (Continued)</b>					
29A.5.4	-0.2	-0.1	23	Good	White Plaster Ceiling
29A.5.5	0.3	-0.1	95	Good	White Wood Window Apron
29A.5.6	<b>2.2</b>	0.5	23	Good	White Wood Closet Shelf
29A.5.7	0.3	-0.1	95	Good	White Metal Door
<b>Room 6 (Bedroom)</b>					
29A.6.1	0.1	-0.1	23	Good	White Wood Door
29A.6.2	-0.3	-0.2	23	Good	White Plaster Ceiling
29A.6.3	0.1	-0.1	23	Good	White Wood Door Casing
29A.6.4	0.3	-0.1	23	Good	White Wood Baseboard
29A.6.5	0.6	-0.1	95	Good	White Metal Door

29A.6.6	0.2	-0.1	23	Good	Jamb White Wood Shelf
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**EXTERIOR XRF READINGS**

29A.1	<b>6.8(1)</b>	0.7	23	Fair	White Porch Rail
29A.2	<b>6.2</b>	0.8	23	Good	White Upper Trim
29A.3	1.1(2)	-0.1	95	Good	White Wood Door Casing (Inconclusive- Scrape Sample Taken)

(1) Lab Analysis: **positive** (Result = 3.65% Lead, Action Level  $\geq$  0.5% Lead)

(2) Lab Analysis: **negative** (Result = 0.33% Lead, Action Level  $\geq$  0.5% Lead)

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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27 September 1994

**Field XRF Readings for Quarters 29A  
Ft. McClellan, AL**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
=====	=====	=====	=====	=====	=====

**EXTERIOR XRF READINGS (Continued)**

29A.4	<b>5.9</b>	0.9	23	Good	White Porch Ceiling
29A.5	-0.2	-0.1	95	Good	White Wood Window Frame
29A.6	-0.6	-0.2	23	Fair	White Wood Window

						Sill
29A.7	0.1	0.2	95	Good		White Metal Door
29A.8	0.2	-0.2	23	Fair		Red Divider Fence

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

CESAD-EN-FL

27 September 1994

**Baltzell Family Housing Area, Fort McClellan, Alabama  
Lead-Based Paint Survey**

## Quarters No. 30 A

Type Quarters: Three Bedroom, Duplex (approx. 1500 sq. ft.)

Date Constructed: 1957

Type Construction: Brick

### Survey Summary:

1. Quarters No. 30 A is a three bedroom, two bathroom unit which is half of a two family duplex.
2. Positive levels of lead-based paint were detected on all porch components and upper trim on the exterior. In the interior, positive XRF readings were obtained on metal doors, baseboards, shelves and original window components.
3. A photograph of Quarters No. 30 A appears below. The actual field XRF readings appear on the following pages. A generalized floorplan showing the specific locations in which positive readings occurred, follows the XRF field readings.

**Field XRF Readings for Quarters 30A  
Ft. McClellan, AL**

Date Surveyed: 03 February 1994

Surveyors: LM

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
7094020394100001	0.5	0.5	95	N/A	Calibration Check

**INTERIOR XRF READINGS**

**Room 1 (Living Room)**

30A.1.1	-0.1	-0.1	23	Good	White Plaster Wall
30A.1.2	-0.1	-0.1	23	Good	White Wood Window Sill
30A.1.3	0.0	-0.1	95	Good	White Wood Window Casing
30A.1.4	5.1	0.4	23	Good	White Wood Baseboard
30A.1.5	0.1	-0.2	95	Good	White Concrete Block Wall
30A.1.6	-0.3	-0.1	23	Good	White Plaster Ceiling
30A.1.7	0.1	-0.1	23	Good	White Wood Door

**Room 2 (Kitchen)**

30A.2.1	1.7	0.2	95	Good	White Wood Window Sill
30A.2.2	-0.2	-0.1	23	Good	White Wood Cabinet
30A.2.3	0.1	-0.1	23	Good	White Plaster Wall
30A.2.4	2.8	0.4	23	Good	White Wood Baseboard
30A.2.5	0.5	-0.1	95	Good	White Metal Door Jamb

**Room 3 (Hallway and Bathroom)**

30A.3.1	1.8	0.2	23	Good	White Wood Shelf
30A.3.2	0.3	-0.1	95	Good	White Metal Door
30A.3.3	-0.2	-0.1	23	Good	White Plaster Wall

30A.3.3      0.0      -0.1      23      Good      Duplicate

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

CESAD-EN-FL

27 September 1994

**Field XRF Readings for Quarters 30A  
Ft. McClellan, AL**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
7094020394110502	0.4	0.6	95	N/A	Calibration Check
<b>Room 4 (Bedroom and ½ Bathroom)</b>					
30A.4.1	<b>3.8</b>	0.3	23	Good	White Wood Baseboa
30A.4.2	0.1	-0.1	23	Good	White Wood Door Jamb
310.4.3	-0.1	-0.1	23	Good	White Plaster Ceiling
30A.4.4	0.3	-0.1	23	Good	White Wood Door
30A.4.5	0.0	-0.1	23	Good	White Wood Shelf
30A.4.6	0.1	-0.1	23	Good	White Wood Window Casing
<b>Room 5 (Bedroom)</b>					
30A.5.1	<b>2.9</b>	0.3	23	Good	White Wood Baseboard
30A.5.2	-0.1	-0.1	23	Good	White Plaster Ceiling
30A.5.3	0.3	-0.1	23	Good	White Wood Window Sill
30A.5.4	-0.2	-0.1	23	Good	White Wood Window Frame
30A.5.5	<b>1.9</b>	0.2	23	Good	White Wood Shelf
30A.5.6	<b>2.1</b>	0.1	95	Good	White Metal Door
30A.5.7	0.3	-0.1	23	Good	White Plaster Wall
<b>Room 6 (Bedroom)</b>					

30A.6.1	-0.5	-0.3	23	Good	White Wood Baseboard
30A.6.2	-0.0	-0.1	23	Good	White Wood Window Apron
30A.6.3	<b>3.7</b>	0.6	23	Good	White Wood Baseboard
30A.6.4	<b>1.7</b>	0.5	23	Good	White Wood Shelf
30A.6.5	0.2	-0.1	95	Good	White Metal Door

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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27 Septmeber 1994

**Field XRF Readings for Quarters 30A  
Ft. McClellan, AL**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
<b>EXTERIOR READINGS</b>					
30A.1	<b>4.7</b>	0.5	23	Good	White Wood Trim
30A.2	<b>4.7</b>	1.0	23	Fair	White Porch Railing
30A.3	<b>5.5</b>	0.4	23	Fair	White Wood Porch Ceiling
30A.4	-0.0	-0.0	23	Good	White Wood Window Frame
30A.5	-0.1	-0.1	23	Good	White Wood Window Frame
7094020394115502	0.7	0.6	95	N/A	Calibration Check

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm<sup>2</sup>. K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

**LEAD BASED PAINT  
SURVEY REPORT**

**BUILDING 66**



**LEAD-BASED PAINT SURVEY  
 REPORT FOR BUILDING NO. 66  
 CHILD DEVELOPMENT CENTER  
 FT. McCLELLAN, ALABAMA**

**Introduction**

1. This is the lead-based paint (LBP) field survey report for Building No. 66 located at Ft. McClellan, Alabama. This report documents the LBP field results for this building.
2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The survey was performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.
3. A brief summary of the LBP survey is provided in this report. The actual field XRF readings for this structure appear in Table 1. Photographs of the unit appear as Figures. The building floorplan, showing the locations of the XRF readings testing positive, appears as Plate 1.
4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test"<sup>(1)</sup> mode is normally used for routine readings. Readings testing "positive"<sup>(2)</sup> according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared ( $\text{mg}/\text{cm}^2$ ), whereas, "negative" refers to readings of  $0.7 \text{ mg}/\text{cm}^2$  or less. According to the HUD guidelines, positive readings for this instrument are greater than  $1.3 \text{ mg}/\text{cm}^2$ . "Inconclusive" readings are those that fall between  $0.7 \text{ mg}/\text{cm}^2$  and  $1.3 \text{ mg}/\text{cm}^2$ .

(1) The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

(2) **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	$\text{mg}/\text{cm}^2$
Test	0.7 - 1.3	$\text{mg}/\text{cm}^2$
Confirm	0.85 - 1.15	$\text{mg}/\text{cm}^2$

5. The "action level" defined in the HUD Interim Guidelines is a lead concentration above  $1.0 \text{ mg/cm}^2$ . Lead concentrations in this report are shown for both K-shell and L-shell in Table 1. The L-shell XRF reading is essentially for the top 1 or 2 surface paint layers, whereas, the K-shell is total lead applicable for multi-layered paint surfaces. HUD Guidelines specify that the K-Shell results be used for evaluating XRF readings.

6. In this report paint condition stated as "good" is defined as intact; "fair" as intact but worn (minor chips from wear and tear but no adhesion or substrate problems); "poor" as severely worn or no longer adhering or, substrate deterioration (e.g., peeling, flaking, cracking, etc.).

### Discussion

7. Building 66 (Child Development Center) is a one story structure originally built in 1941 (see figures). The east wing of the building with rock walls appears to be older than the west wing that has brick walls. All of the upper trim and soffits are wood and the roof has asphalt shingles. The windows are a mixture of factory finish and painted metal with wood and concrete casings.

8. The interior of this building consists of rock and sheetrock walls, wood doors with metal door components and metal windows. The interior of the east wing appears to have been remodeled and the west wing appears to be all new construction.

9. A total of seventy seven (77) XRF readings were made at this building (see Table 1). Three (3) indicated positive levels LBP.

### Interior Summary

10. Based on the survey results, it is reasonable to assume that all of the metal door components (e.g., jambs, casings, etc.) in the older east wing of the building have positive levels of LBP. All of the doors are negative. The white wood ceiling above the dropped tile ceiling in the east wing of the building also tested positive for LBP. The orange metal stall in the east wing boy's restroom tested positive as well as a free standing yellow wood bookcase in the office labeled as Room 13 (see Plate 1). All XRF readings in the newer west wing were negative.

**Exterior Summary**

11. All exterior XRF readings were negative for LBP.

**Paint Condition**

12. The paint on the interior of this building is in good condition. The paint on the exterior is in fair condition.

Prepared By: Keith Bates  
Keith Bates  
Geologist

Reviewed By: Ray Willingham  
Ray Willingham  
Geologist

encls

Date Surveyed: 26 February 1994  
 Surveyors: KB, NK

**Table 1**  
**Ft. McClellan Building No. 66**  
**Lead-Based Paint Field Survey Results**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
7094022694070001	1.2	1.3	85	N/A	Calibration Check
7094022694070001	1.3	1.3	85	N/A	Calibration Check
7094022694070001	1.1	1.3	85	N/A	Calibration Check
7094022694070001	1.2	1.2	85	N/A	Calibration Check
7094022694070001	1.2	1.3	85	N/A	Calibration Check
0000	0.1	-0.1	85	N/A	Blank
1.63	1.3	1.5	85	N/A	NIST Std. = 1.63

#### INTERIOR READINGS

##### Room 1 (Office)

66.1.1	0.4	-0.0	85	Fair	White Metal Window Sash
66.1.2	-0.5	-0.1	85	Poor	White Concrete Window Sill
66.1.3	0.4	0.1	85	Good	White Rock Wall
66.1.4	0.2	0.1	85	Fair	Brown Rock Baseboard
66.1.5	0.1	-0.1	21	Good	Brown Wood Door
66.1.6	0.7	0.0	343	Good	Brown Metal Door Jamb
66.1.7	0.0	-0.1	21	Good	Wallpapered Sheetrock Wall

##### Room 2 (Copier Room)

66.2.1	-0.0	-0.1	21	Good	Tan Sheetrock Wall
66.2.2	0.5	-0.0	85	Fair	White Metal Window Sash
66.2.3	0.6	-0.0	85	Good	Brown Metal Interior Window Casing

K-Shell and L-Shell columns are lead concentrations in mg/cm<sup>2</sup>. K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per guidelines.

**Table 1 (continued)**  
**Ft. McClellan Building No. 66**  
**Lead-Based Paint Field Survey Results**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
<b>Room 3 (Storage Room)</b>					
66.3.1	-1.1	-0.2	21	Good	White Brick Wall
66.3.2	0.2	-0.1	85	Fair	White Concrete Window Casing
66.3.3	-0.2	-0.1	21	Good	Tan Wood Door
66.3.4	0.6	-0.0	85	Good	Tan Metal Door Casing
<b>Room 4 (Storage)</b>					
66.4.1	-0.1	-0.1	21	Good	Blue Sheetrock Wall
66.4.1	-0.2	-0.1	21	Good	Duplicate
7094022694083001	1.3	1.3	85	N/A	Calibration Check
66.4.2	-0.8	0.0	21	Poor	Orange Rock Wall
66.4.3	0.4	0.1	85	Poor	White Concrete Window Sill
66.4.4	0.1	-0.2	85	Fair	White Metal Window Sash
66.4.5	-0.3	-0.1	21	Fair	Tan Wood Door
<b>Room 5 (Janitor's Closet)</b>					
66.5.1	-0.2	-0.2	21	Fair	Tan Wood Shelf Support
66.5.2	-0.0	-0.1	21	Good	Yellow Sheetrock Wall
66.5.3	0.9 <sup>(1)</sup>	0.1	180	Fair	Tan Metal Door Jamb (Inconclusive - Scrape Sample Taken)
66.5.4	3.1	1.1	21	Poor	White Wood Ceiling (Visible above dropped tile ceiling)

(1) Lab analysis positive (Result = 1.4% Lead, Action Level  $\geq$  0.5% Lead).

Values in **Bold** type are positive.

K-Shell and L-Shell columns are lead concentrations in mg/cm<sup>2</sup>. K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD guidelines.

Table 1 (continued)  
 Ft. McClellan Building No. 66  
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
<b>Room 6 (Storage)</b>					
66.6.1	-0.0	-0.1	21	Good	White Sheetrock Wall
66.6.2	0.1	-0.1	85	Good	White Metal Window Sash
66.6.3	0.1	0.0	85	Good	White Rock Wall
66.6.4	0.0	-0.1	21	Good	White Wood Door Jamb
<b>Room 7 (Kitchen)</b>					
66.7.1	-0.2	-0.1	21	Good	White Wood Door
66.7.2	0.8	0.1	85	Good	White Metal Door Jamb
66.7.3	0.1	-0.1	21	Good	(Inconclusive - see scrape sample 66.5.3) Tan Sheetrock Wall
66.7.4	0.5	-0.1	85	Good	White Metal Window Sash
<b>Room 8 (Main Room)</b>					
66.8.1	-0.1	-0.1	21	Good	Tan Sheetrock Wall
66.8.2	-0.3	-0.1	85	Fair	Tan Wood Baseboard
66.8.3	0.3	0.0	85	Good	White Metal Support Column
66.8.4	0.6	0.1	85	Good	Brown Metal Door
66.8.5	0.3	-0.1	21	Good	Tan Wood Baseboard
66.8.6	-0.5	-0.2	21	Good	Blue Wood Shelf
<b>Room 9 (Boy's Restroom)</b>					
66.9.1	<b>1.4</b> <sup>(2)</sup>	1.5	85	Good	Orange Metal Stall (Scrape sample taken)
66.9.2	0.3	0.1	85	Good	Blue Wood Window Sill
66.9.3	-0.2	-0.1	21	Good	Blue Sheetrock Wall
66.9.4	-0.3	-0.1	21	Fair	Blue Wood Door

(2) Lab analysis positive (Result = 20.1% Lead, Action Level  $\geq$  0.5% Lead).

Values in **Bold** type are positive.

K-Shell and L-Shell columns are lead concentrations in mg/cm<sup>2</sup>. K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per guidelines.

**Table 1 (continued)**  
**Ft. McClellan Building No. 66**  
**Lead-Based Paint Field Survey Results**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
<b>Room 10 (Girl's Restroom)</b>					
66.10.1	0.4	0.2	85	Good	Pink Metal Stall
66.10.2	0.4	0.1	85	Poor	White Wood Window Sill
66.10.3	-0.0	-0.1	21	Good	Tan Wood Door Casing
66.10.3	0.3	-0.1	21	Good	Duplicate
7094022694100001	1.1	1.2	85	N/A	Calibration Check
66.10.4	-0.2	-0.1	21	Good	Tan Wood Door
66.10.5	-0.3	-0.1	85	Good	Tan Sheetrock Wall
66.10.6	0.7	0.1	85	Fair	Blue Metal Door Casing
(Inconclusive - see scrape sample 66.5.3)					
<b>Room 11 (Office)</b>					
66.11.1	0.4	-0.1	85	Good	Green Metal Door
66.11.2	0.4	-0.1	85	Good	Brown Metal Support Column
66.11.3	-0.0	-0.1	21	Good	Tan Wood Door
66.11.4	-0.3	-0.1	21	Good	Brown Wood Door
<b>Room 12 (Office)</b>					
66.12.1	0.3	-0.1	21	Good	White Wood Window Sash
66.12.2	0.4	-0.1	85	Good	Brown Metal Door
<b>Room 13 (Office)</b>					
66.13.1	0.1	-0.1	21	Good	Brown Wood Window Sash
66.13.2	0.1	-0.1	21	Good	Brown Wood Cabinet
66.13.3	1.2	1.2	343	Good	Yellow Wood Bookcase
(Note: Free standing, not a permanent structure)					

Values in **Bold** type are positive.

K-Shell and L-Shell columns are lead concentrations in mg/cm<sup>2</sup>. K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD guidelines.

Table 1 (continued)  
 Ft. McClellan Building No. 66  
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
<b>Room 14 (Hallway)</b>					
66.14.1	-0.1	-0.1	21	Good	Brown Wood Door
66.14.2	-0.1	-0.1	21	Good	Tan Sheetrock Wall
66.14.3	0.6	0.1	85	Fair	Brown Metal Door
66.14.4	-0.0	-0.1	21	Good	White Wood Ceiling
66.14.5	-0.9	-0.1	21	Good	White Concrete Block Wall
66.14.6	0.2	-0.1	21	Good	White Sheetrock Wall
66.14.7	-0.3	-0.1	21	Good	Brown Wood Door
<b>Room 15 (Office)</b>					
66.15.1	0.5	-0.1	85	Good	Brown Metal Door Jamb
66.15.2	-0.2	-0.1	21	Good	Brown Wood Window Sash
66.15.3	-0.8	-0.1	21	Good	White Concrete Block Wall
66.15.4	-0.4	-0.1	21	Good	White Sheetrock Wall
<b>Room 16 (Break Room)</b>					
66.16.1	-0.5	-0.1	21	Good	White Sheetrock Wall
66.16.1	-0.1	-0.1	21	Good	Duplicate
7094022694110001	1.1	1.2	85	N/A	Calibration Check
66.16.2	0.4	-0.1	85	Good	Brown Metal Door Casing

K-Shell and L-Shell columns are lead concentrations in mg/cm<sup>2</sup>. K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per guidelines.

**Table 1 (continued)**  
**Ft. McClellan Building No. 66**  
**Lead-Based Paint Field Survey Results**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
<b>Room 17 (Office)</b>					
66.17.1	0.3	-0.1	85	Good	Brown Metal Door
66.17.2	-0.3	-0.1	21	Good	Brown Wood Window Sash
66.17.3	-2.0	-0.2	21	Good	White Concrete Block Window Sill
66.17.4	-0.4	-0.2	21	Good	White Wood Shelf
<b>Room 18 (Storage)</b>					
66.18.1	-1.6	-0.2	21	Good	Orange Concrete Block Wall
66.18.2	0.4	-0.1	85	Fair	Orange Metal Door
66.18.3	0.1	-0.1	21	Good	Tan Sheetrock Wall
66.18.4	-0.5	-0.1	21	Good	Orange Wood Window Sash
<b>EXTERIOR READINGS</b>					
66.1	0.3	-0.1	85	Fair	Brown Metal Porch Support
66.2	-0.6	-0.0	21	Fair	Brown Wood Rafter
66.3	0.2	0.2	21	Fair	Brown Wood Soffit
66.4	0.5	0.2	85	Fair	Brown Metal Window Sash
66.5	-0.1	0.1	21	Fair	Brown Wood Rafter
66.6	0.5	0.3	85	Fair	Brown Wood Window Casing
66.7	0.0	-0.1	21	Fair	Brown Wood Window Sash
66.8	0.5	-0.1	85	Fair	Brown Metal Door
66.9	-0.4	-0.1	21	Fair	Brown Wood Upper Trim
66.10	-0.4	-0.1	21	Fair	Brown Wood Upper Trim
7094022694113501	1.2	1.3	85	N/A	Calibration Check
7094022694113501	1.3	1.3	85	N/A	Calibration Check
7094022694122501	1.3	1.3	85	N/A	Calibration Check
1.63	1.3	1.6	85	N/A	NIST Std. = 1.63

K-Shell and L-Shell columns are lead concentrations in mg/cm<sup>2</sup>. K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD guidelines.

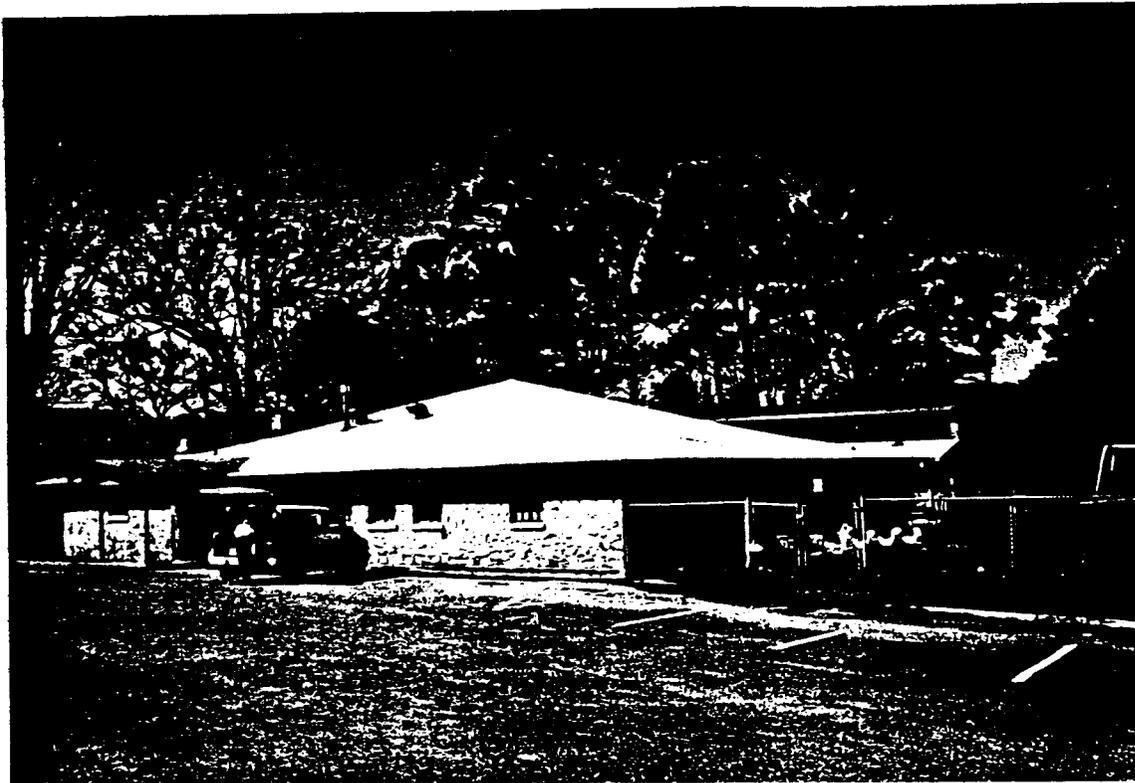
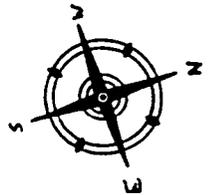
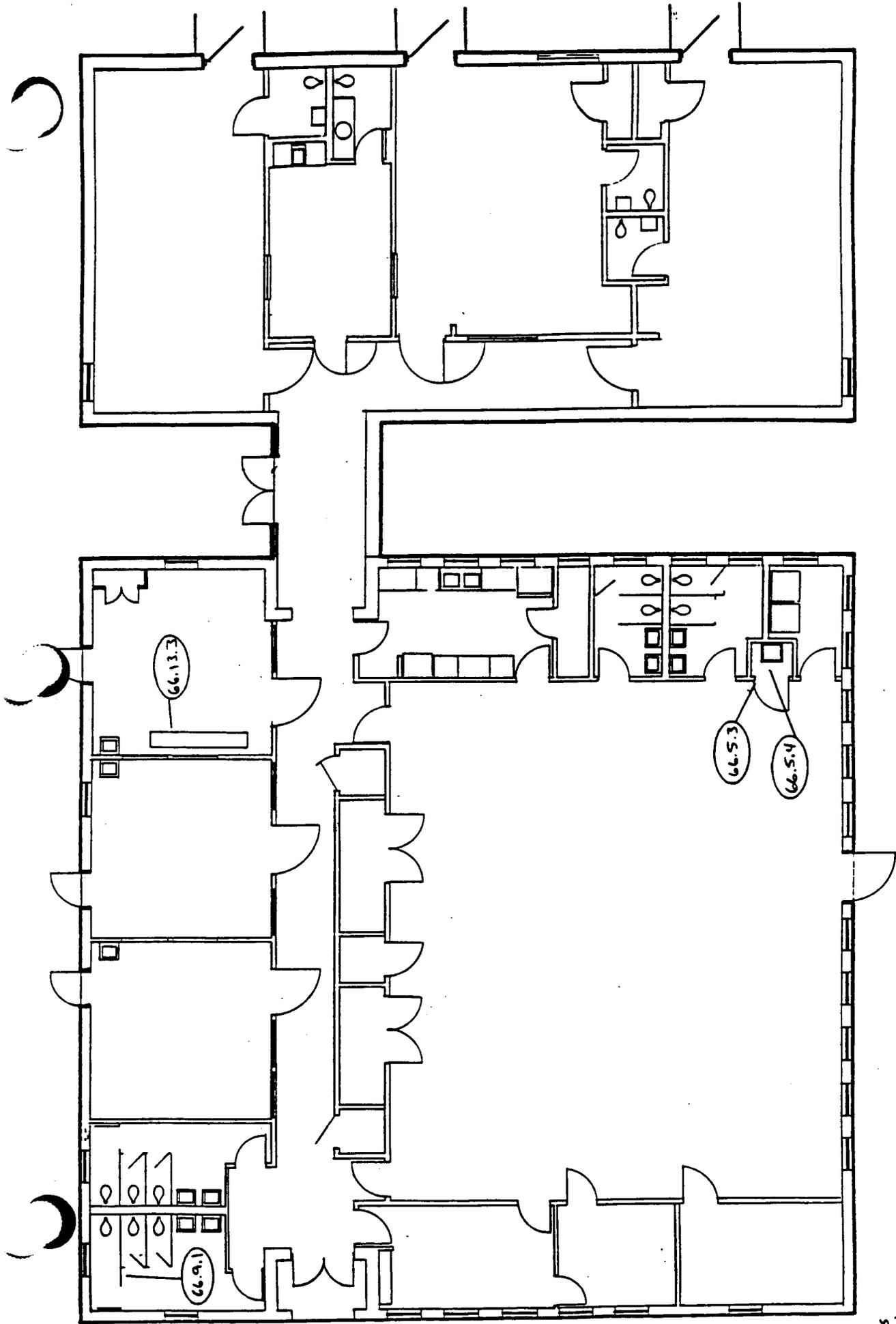


Figure 1. Front view of Building 66.



Figure 2. Side view of Building 66. Note newer brick wing and older rock wing.



Generalized Floorplan - Not to Scale

Only Locations of Positive XRF Readings (if any) Are Shown

Unit No. 66

Plate No. 1

**LEAD BASED PAINT  
SURVEY REPORT**

**BUILDING: 67**



**LEAD-BASED PAINT SURVEY  
 REPORT FOR BUILDING 67  
 SILVER CHAPEL  
 FT. McCLELLAN, ALABAMA**

**Introduction**

1. This is the lead-based paint (LBP) field survey report for Building 67 located at Ft. McClellan, Alabama. This report documents the LBP field results for this building.
2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The survey was performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.
3. A brief summary of the LBP survey is provided in this report. The actual field XRF readings for this structure appear in Table 1. Photographs of the unit appear as Figures. The building floorplan, showing the locations of the XRF readings testing positive, appear as Plates 1 and 2.
4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test"<sup>(1)</sup> mode is normally used for routine readings. Readings testing "positive"<sup>(2)</sup> according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared ( $\text{mg}/\text{cm}^2$ ), whereas, "negative" refers to readings of  $0.7 \text{ mg}/\text{cm}^2$  or less. According to the HUD guidelines, positive readings for this instrument are greater than  $1.3 \text{ mg}/\text{cm}^2$ . "Inconclusive" readings are those that fall between  $0.7 \text{ mg}/\text{cm}^2$  and  $1.3 \text{ mg}/\text{cm}^2$ .

(1) The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

(2) **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	$\text{mg}/\text{cm}^2$
Test	0.7 - 1.3	$\text{mg}/\text{cm}^2$
Confirm	0.85 - 1.15	$\text{mg}/\text{cm}^2$

5. The "action level" defined in the HUD Interim Guidelines is a lead concentration above  $1.0 \text{ mg/cm}^2$ . Lead concentrations in this report are shown for both K-shell and L-shell in Table 1. The L-shell XRF reading is essentially for the top 1 or 2 surface paint layers, whereas, the K-shell is total lead applicable for multi-layered paint surfaces. HUD Guidelines specify that the K-Shell results be used for evaluating XRF readings.

6. In this report paint condition stated as "good" is defined as intact; "fair" as intact but worn (minor chips from wear and tear but no adhesion or substrate problems); "poor" as severely worn or no longer adhering or, substrate deterioration (e.g., peeling, flaking, cracking, etc.).

### Discussion

7. Building 67 (Silver Chapel) was built in 1936. It is one story and has a basement (see Figures). The walls are concrete with wood upper trim and a terra cotta tile roof. The original windows have been replaced with factory finished metal components.

8. The interior of this building has concrete walls and ceilings, wood doors and door components, and factory finished metal windows. The offices in the basement appear to be constructed with newer materials. The interior walls in this area are sheetrock with wood doors and door components.

9. A total of sixty one (61) XRF readings were made on the interior of this building. Fifteen (15) were positive for LBP. Seventeen (17) exterior XRF readings were taken. Two were positive for LBP (see Table 1).

### Interior Summary

10. Positive XRF readings were obtained on wood doors, wood door components (e.g., casing, jamb, header, etc.), wood window casings, and concrete window sills in the basement of this building. Only the older types of these components were positive. It may be possible to distinguish older from newer, if not, all of the above components in the basement should be considered positive. A white wood coat rack near the exterior basement door, painted metal pipes and HVAC ducts, also tested positive. Except for metal stairway railings and the metal ladder to the bell tower, all XRF readings on the main level of the church were negative.

**Exterior Summary**

11. All metal railings and the brown wood basement door and door components (e.g., casing, jamb, header, etc.) on the exterior of this building should be considered positive for LBP. All other XRF readings were negative.

**Paint Condition**

12. Overall, the paint on the interior of this building is in good condition. The paint on the exterior is in fair condition.

Prepared By: Keith Bates  
Keith Bates  
Geologist

Reviewed By: Ray Willingham  
Ray Willingham  
Geologist

encls

ate Surveyed: 02 February 1994  
 Surveyors: KB, RW, BS

**Table 1**  
**Ft. McClellan Building No. 66**  
**Lead-Based Paint Field Survey Results**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
7094020294073001	1.4	1.3	81	N/A	Calibration Check
7094020294073001	1.3	1.4	81	N/A	Calibration Check
7094020294073001	1.4	1.4	81	N/A	Calibration Check
7094020294073001	1.1	1.4	81	N/A	Calibration Check
7094020294073001	1.1	1.3	81	N/A	Calibration Check
0000	0.1	-0.1	81	N/A	Blank
1.63	1.4	1.6	81	N/A	NIST Std. = 1.63

#### INTERIOR XRF READINGS

##### Room 1 (Kitchen)

67.1.1	<b>1.9</b>	0.0	20	Good	White Concrete Window Sill
67.1.2	-0.2	-0.1	81	Good	White Concrete Wall
67.1.3	-0.2	-0.1	20	Good	White Concrete Wall
67.1.4	-0.0	0.0	20	Good	Brown Wood Door Jamb
67.1.5	-0.6	-0.0	20	Good	Brown Wood Door Header
67.1.6	-0.1	0.0	81	Fair	Brown Concrete Baseboard
67.1.7	0.2	-0.1	20	Good	White Wood Cabinet
67.1.8	-0.1	-0.1	20	Good	Stained Wood Window Frame

##### Room 2 (Basement Entry Area and Offices)

67.2.1	-0.3	-0.1	81	Poor	White Concrete Ceiling
67.2.2	-0.1	-0.0	81	Fair	White Concrete Wall
67.2.3	0.0	-0.1	20	Good	White Sheetrock Wall
67.2.4	-0.6	-0.1	20	Fair	Brown Concrete Baseboard
67.2.5	<b>6.3</b>	0.8	20	Good	Brown Wood Door
67.2.6	<b>4.9</b>	0.9	20	Good	Brown Wood Door Jamb

Positive XRF readings (if any) are in **Bold**.

K-Shell and L-Shell columns are lead concentrations in mg/cm<sup>2</sup>. K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per Guidelines.

Table 1 (continued)  
 Ft. McClellan Building No. 66  
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
-----					
Room 2 (Basement Entry Area and Offices - continued)					
67.2.7	0.2	-0.0	20	Good	Brown Wood Door Jamb
67.2.8	-0.4	-0.1	20	Poor	White Concrete Wall
67.2.9	<b>4.0</b>	0.8	20	Good	Brown Wood Window Casing
67.2.10	0.2	-0.0	20	Good	Brown Wood Door
67.2.11	0.1	-0.1	20	Good	White Stucco Wall
67.2.12	0.3	0.0	20	Good	Brown Wood Baseboard
67.2.12	-0.3	-0.0	20	Good	Duplicate
7094020294094501	1.2	1.3	81	N/A	Calibration Check
67.2.13	-0.4	0.0	20	Good	Brown Concrete Baseboard
67.2.14	-0.0	0.0	20	Good	Brown Wood Door
67.2.15	-0.1	-0.1	20	Good	Brown Wood Door
67.2.16	<b>4.6</b>	1.0	20	Good	Brown Wood Door
67.2.17	<b>2.4</b>	0.7	20	Good	Brown Wood Door Jamb
67.2.18	-0.2	-0.0	20	Good	Brown Wood Door Jamb
67.2.19	-1.1	-0.0	20	Fair	Brown Concrete Floor
67.2.20	<b>2.1</b>	0.3	20	Good	White Wood Coat Rack
67.2.21	<b>2.9</b>	0.7	20	Good	Brown Wood Door
67.2.22	<b>2.5</b>	1.4	20	Good	Yellow Wood Door
67.2.23	-0.2	-0.1	20	Good	Wood Divider
67.2.24	<b>2.6</b>	0.1	20	Good	White Concrete Window Sill
67.2.25	-0.5	0.0	20	Fair	White Concrete Window Apron
67.2.26	0.1	-0.1	20	Good	White Concrete Window Casing
67.2.27	0.0	-0.0	20	Good	White Concrete Wall
67.2.28	<b>1.8</b>	0.1	20	Good	White Pipe
67.2.29	<b>1.5</b>	0.2	81	Good	White Metal Duct
67.2.30	-0.8	-0.1	20	Good	Peach Masonite Panel
67.2.31	-0.2	-0.1	20	Good	White Sheetrock Wall
67.2.32	<b>2.5</b>	0.7	20	Good	Brown Wood Door Jamb
67.2.32	<b>2.5</b>	0.7	20	Good	Duplicate
7094020294103001	1.0	1.2	81	N/A	Calibration Check

Positive XRF readings (if any) are in **Bold**.

K-Shell and L-Shell columns are lead concentrations in mg/cm<sup>2</sup>. K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.

**Table 1 (continued)**  
**Ft. McClellan Building No. 66**  
**Lead-Based Paint Field Survey Results**

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
-----					
<b>Room 3 (Boiler Room)</b>					
67.3.1	-0.7	0.2	81	Fair	Green Concrete Wall
67.3.2	<b>11.9</b>	2.6	20	Good	Brown Wood Door
<b>Room 4 (Stairwell)</b>					
67.4.1	-0.4	0.0	20	Fair	White Concrete Wall
67.4.2	<b>18.3</b>	4.0	20	Fair	Brown Metal Railing
67.4.3	0.1	0.1	20	Good	Brown Concrete Baseboard
67.4.4	-1.3	-0.1	20	Good	Brown Concrete Stair Tread
67.4.5	-0.3	0.2	20	Good	Wood Window Sill
<b>Room 5 (Side Entry and Office Area)</b>					
67.5.1	-0.3	-0.0	81	Fair	White Concrete Wall
67.5.2	0.4	0.0	81	Good	White Metal Duct
67.5.3	-0.1	0.1	20	Good	Stained Wood Door Jamb
67.5.4	0.2	-0.1	20	Good	White Stucco Wall
<b>Room 6 (Chaplin's Office and Bathroom Area)</b>					
67.6.1	0.2	0.4	81	Good	Stained Wood Door
67.6.2	-0.1	0.0	20	Good	Brown Wood Window Sill
67.6.3	-0.9	0.0	81	Good	Brown Concrete Baseboard
67.6.4	0.1	0.0	20	Good	White Stucco Ceiling
67.6.5	0.2	0.0	20	Good	White Wall
67.6.6	0.7 <sup>(1)</sup>	0.1	81	Fair	White Wood Attic Scuttle
67.6.7	0.7	0.2	81	Good	(Inconclusive - Scrape Sample Taken) Brown Wood Door Casing
(Inconclusive - See result for sample 67.6.6)					

(1) Lab analysis negative. (Result = 0.24% Lead, Action level ≥ 0.5% Lead)

Positive XRF readings (if any) are in **Bold**.

K-Shell and L-Shell columns are lead concentrations in mg/cm<sup>2</sup>. K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per Guidelines.

Table 1 (continued)  
 Ft. McClellan Building No. 66  
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm <sup>2</sup>	L-Shell mg/cm <sup>2</sup>	Time seconds	Condition	Comments
Room 7 (Chapel)					
67.7.1	-0.5	-0.1	20	Good	White Concrete Column
67.7.2	-0.0	-0.0	20	Good	White Concrete Wall
67.7.2	-0.8	-0.0	20	Good	Duplicate
7094020294112501	1.1	1.2	81	N/A	Calibration Check
67.7.3	-1.0	-0.0	20	Good	Brown Concrete Baseboard
1.63	1.5	1.5	81	N/A	NIST Std. = 1.63
EXTERIOR XRF READINGS					
67.1	-2.4	-0.2	20	Fair	White Concrete Wall
67.2	-0.2	-0.1	20	Good	Stained Wood Door
67.3	0.1	0.4	81	Good	Brown Wood Rafter
67.4	0.4	0.3	81	Good	Brown Wood Upper Trim
67.5	0.0	0.5	20	Good	Brown Wood Eave
67.6	<b>3.0</b>	1.8	81	Poor	Brown Metal Railing
67.7	-0.6	-0.1	20	Good	White Concrete Column
67.8	-1.8	-0.1	81	Fair	White Concrete Column
67.9	-1.5	-0.1	81	Poor	White Concrete Overhang
67.10	-1.0	-0.2	20	Fair	White Concrete Wall
67.11	-1.2	-0.2	81	Good	White Concrete Block Wall
67.12	0.3	0.3	81	Poor	Brown Wood Rafter
67.13	0.0	-0.1	20	Poor	Brown Wood Eave
67.14	-0.5	-0.1	81	Good	White Concrete Window Sill
67.15	-1.7	-0.2	20	Fair	Grey Concrete Step
67.16	-0.2	0.1	20	Good	Brown Wood Screened Door
67.17	1.7	0.8	20	Good	Brown Wood Door Jamb
67.17	1.9	0.7	20	Good	Duplicate
7094020294143102	1.2	1.2	81	N/A	Calibration Check

Positive XRF readings (if any) are in **Bold**.

K-Shell and L-Shell columns are lead concentrations in mg/cm<sup>2</sup>. K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.



Figure 1. Front view of Building 67.

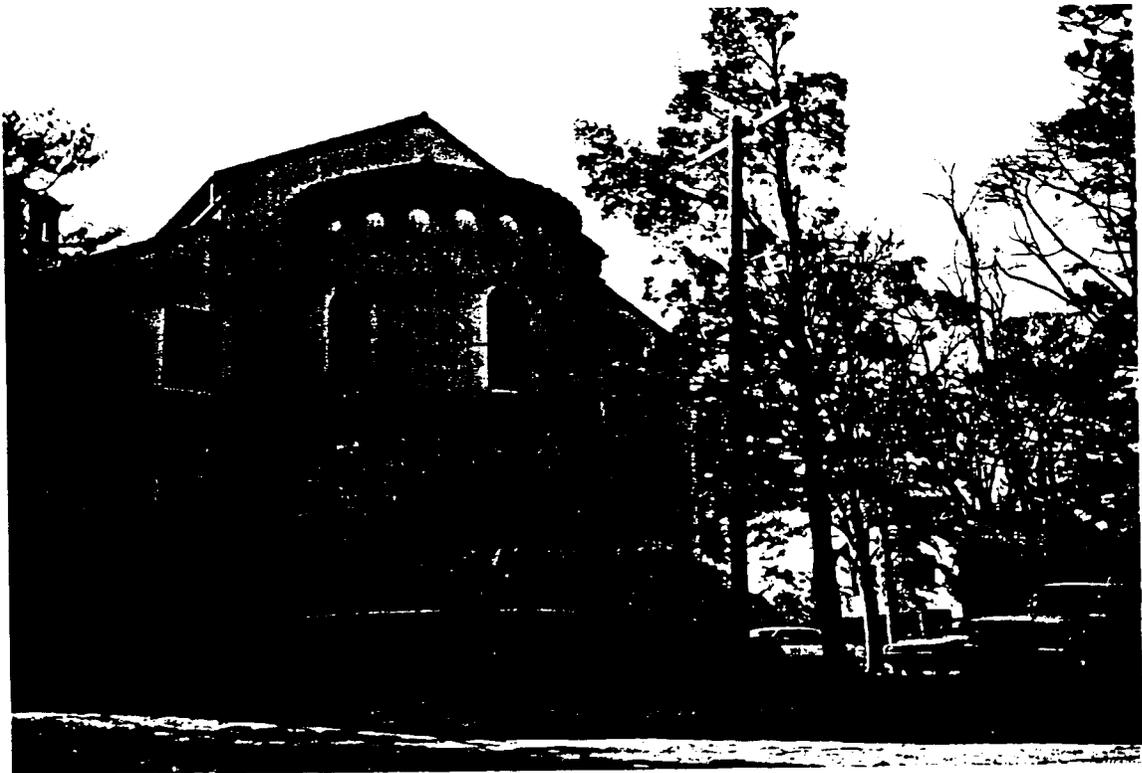
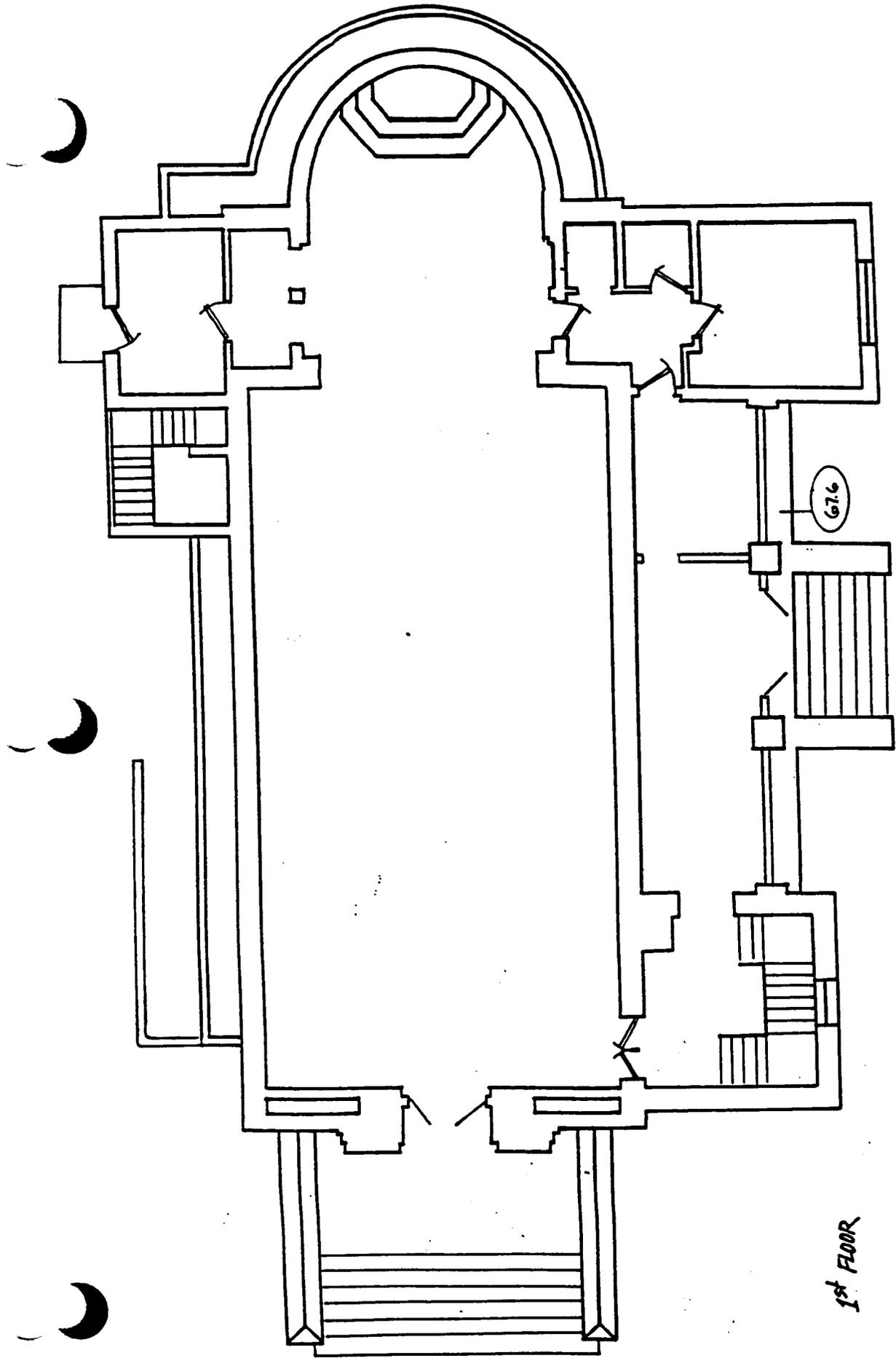


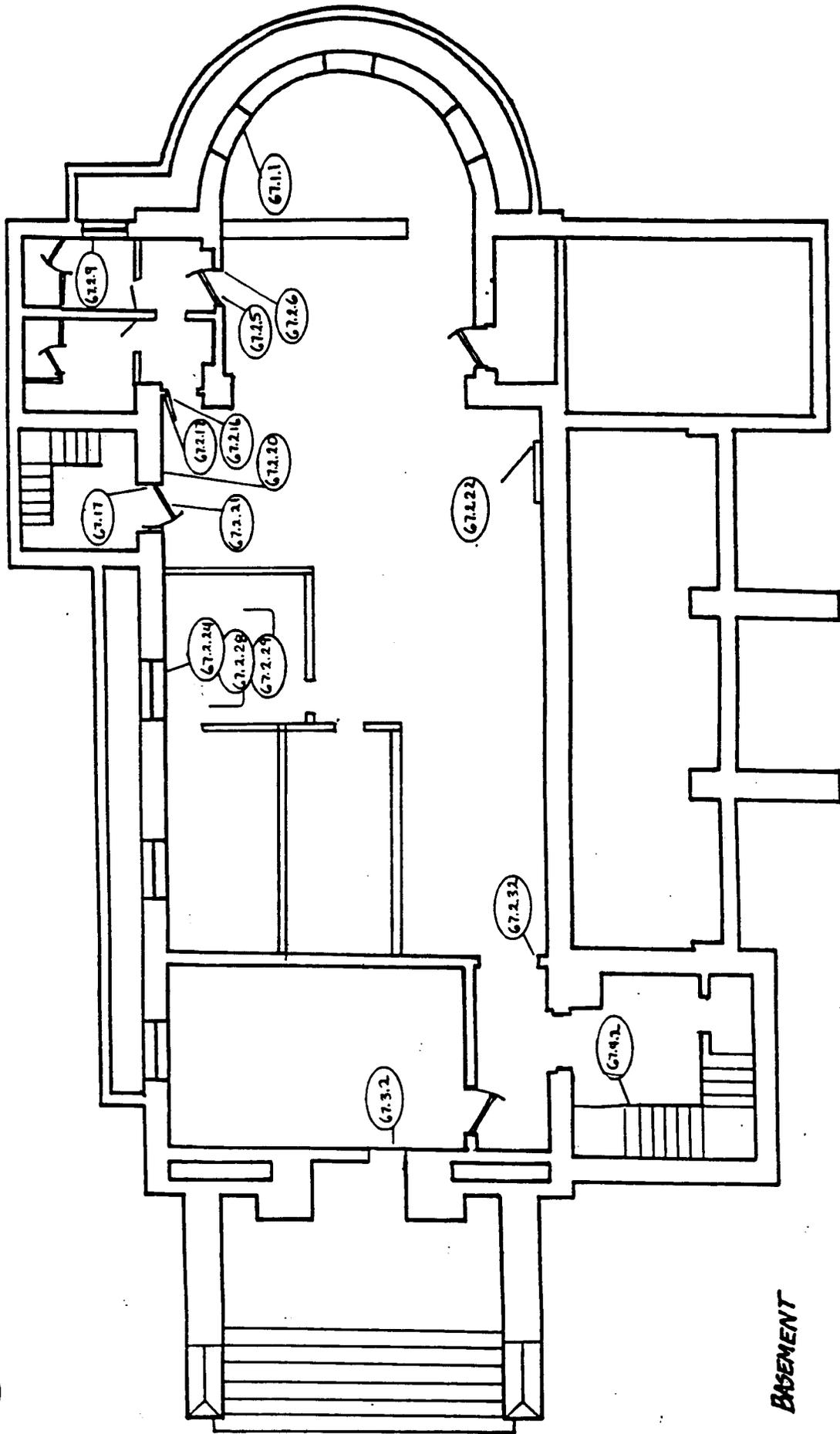
Figure 2. Rear view of Building 67.



1<sup>st</sup> FLOOR

Unit No.	67
Plate No.	1

Generalized Floorplan - Not to Scale  
Only Locations of Positive XRF Readings (if any) Are Shown



**BASEMENT**

Generalized Floorplan - Not to Scale

Only Locations of Positive XRF Readings (if any) Are Shown

Unit No.	67
Plate No.	2