



LEAD-BASED PAINT INSPECTION REPORT

FOR

CLIENT

**City of Spartanburg
City Hall 145 W. Broad St.
Spartanburg, South Carolina 29306
Contact Phone: (864) 580-5011**

LOCATION

**293 South Converse Street
Spartanburg, South Carolina**

ASSESSMENT DATE: May 6, 2020

REPORT DATE: May 11, 2020

INSPECTOR:

Kay H. Horton

EPA Certification #: LBP-R-117167-2, EXP.: 12/27/2022

For

**Crossroads Environmental, LLC
1258 Boiling Springs Road
Spartanburg, South Carolina 29303
(864) 541-8736
CRE Project # 18098-IL**

**LEAD-BASED PAINT INSPECTION REPORT
293 SOUTH CONVERSE STREET
SPARTANBURG, SOUTH CAROLINA**

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**LEAD INSPECTION REPORT
293 S. CONVERSE STREET
SPARTANBURG, SOUTH CAROLINA
CRE PROJECT NUMBER: 18098-IL**

SUMMARY

Crossroads Environmental, LLC (CRE) performed a lead-based paint inspection of the structure located at 293 South Converse Street in Spartanburg, South Carolina. The survey was performed on May 6, 2019 by an EPA Accredited Lead Inspector/Risk Assessor.

According to the Environmental Protection Agency (EPA), paint containing ≥ 1 milligram per square centimeter (mg/cm^2) of lead using an XRF or 0.5% by weight (paint chip analysis) is considered lead-based paint (LBP).

Lead-based paint was detected on interior door jambs, windows, window components (casing and sills), baseboards, cabinet in "butler's pantry", stair rails, and all exterior wooden components (siding, windows, window components, etc.). No lead-based paint was detected on interior walls or doors.

A composite soil sample was collected from bare dirt at the dripline. There was no play area with bare soil nor was a garden area observed. The lead concentration reported from the dripline sample was 3,800 parts per million, which exceeds the EPA's level of concern of 1,200 ppm.

PART I: IDENTIFYING INFORMATION/SITE DESCRIPTION

Crossroads Environmental, LLC was contracted by City of Spartanburg to perform a lead assessment of the structure located at 293 S. Converse Street in Spartanburg, South Carolina. The Inspection was performed by Kay H. Horton, EPA Lead Risk Assessor Certification # LBP-R-117167-2, Expiration Date 12/27/2022.

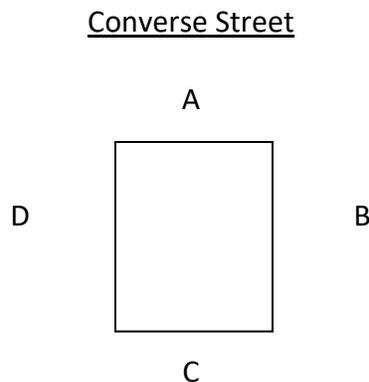
The structure located at 293 South Converse Street in Spartanburg, South Carolina is a two-story wood framed structure with a basement. Interior features include plaster walls and hardwood floors throughout, with the exception of the Breakfast Area, which appears to be an addition/renovation and has two drywall walls. All windows are covered with plastic, which is taped down to the sills with tape.

PART II: SAMPLING PROTOCOL & RESULTS

XRF Results

The inspection was performed using a Niton XLp 300 (Serial #: 20420) analyzer, which does not require substrate correction. Following proper calibration of the XRF, representative components were tested for lead content. The surface-by-surface inspection was performed according to US Department of Housing and Urban Development (HUD) *Guidelines for the Evaluation and Control of Lead-based Paint Hazards*, second edition, July 2012. All lead results are included in the Table I. included as Attachment I.

For report purposes, the following building/room side designations utilized in the results table included as Attachment I are as follow:



According to the Environmental Protection Agency (EPA), paint containing ≥ 1 milligram per square centimeter (mg/cm^2) of lead using an XRF or 0.5% by weight (paint chip analysis) is considered lead-based paint (LBP).

Lead-based paint was detected on door jambs, windows, window components (casing and sills), baseboards, and all exterior wooden components (siding, windows, window components, etc.). No lead-based paint was detected on walls or doors, nor was there lead-based paint detected in the breakfast area, which appears to be an addition/renovation.

Soil Results

The soil sample reported a lead concentration of 3,800 parts per million (ppm).

PART III: ASSESSMENT & RECOMMENDATIONS

Peeling/chipping lead-based paint was observed on window sills throughout the house. The lead-based paint on the door jambs was in overall good condition, with only minor chipping observed. The lead-based paint on the baseboards and stair rails appeared to be in good, intact condition. The paint on the exterior showed minor chipping and peeling, but is in overall good condition.

The following are considered lead hazards in their current condition:

- Peeling and chipping paint on window sills

The following are considered hazards due to the presence of lead-based paint on friction and impact surfaces, which can create a lead dust hazard:

- Lead-based paint on windows and window casing
- Lead-based paint on door jambs

The following has the potential to become a lead hazard if the paint deteriorates:

- Exterior siding, window casing, and trim
- Interior baseboards
- Stair rails

Due to the limited areas of bare soil, child exposure may not be likely; however, the bare soil at the dripline contains a lead concentration that would warrant interim controls.

The following Interim Control Measures are recommended and prioritized below, with number 1 being the highest priority:

- 1) Paint stabilization of all interior window sills
- 2) Control measures to prevent child from contacting contaminated soil at dripline
- 3) Ensure that windows remain closed if replacement is not feasible
- 4) Ensure that floors are kept clean at door jambs

PART IV: CLOSING STATEMENTS

Although standard protocol was followed and the lead testing was performed under accepted quality control practices, the information regarding lead is limited to the exact location sampled; therefore, LBP may exist on areas not tested (behind walls, etc.).

This document has been prepared by Crossroads Environmental, LLC at the request of and for the exclusive use of City of Spartanburg. This report represents the findings from the date that it was inspected, and is limited in scope to that indicated above.

Crossroads Environmental, LLC appreciates the opportunity to provide you with our consultative services. Should you have any questions or need additional information, please do not hesitate to contact us.

CROSSROADS ENVIRONMENTAL, LLC



Kay H. Horton
Certified Lead Inspector/Risk Assessor

**ATTACHMENT I
XRF READINGS**

Reading No	Time	Type	Floor	Room	Component	Color	Substrate	Part	Side	Condition	Results	Action Level	PbC (mg/cm2)
827	5/6/2020 8:32	ShutterCal											2.35
828	5/6/2020 8:35	NIST CAL.										1	0.8
829	5/6/2020 8:36	Paint	1ST	BREAKFAST	DOOR	WHITE	WOOD	CASING	C	CRACKING	Positive	1	15.3
830	5/6/2020 8:37	Paint	1ST	BREAKFAST	WINDOW	WHITE	WOOD	SILL	C	CRACKING	Positive	1	1
831	5/6/2020 8:37	Paint	1ST	BREAKFAST	WINDOW	WHITE	WOOD	SILL	C	CRACKING	Negative	1	0.4
832	5/6/2020 8:38	Paint	1ST	KITCHEN	WINDOW	WHITE	WOOD	SASH	D	CRACKING	Positive	1	2.7
833	5/6/2020 8:39	Paint	1ST	BREAKFAST	WALL	GRAY	PLASTER		C	INTACT	Negative	1	0.3
834	5/6/2020 8:40	Paint	1ST	BREAKFAST	CHAIR RAIL	GRAY	PLASTER		C	INTACT	Negative	1	0
835	5/6/2020 8:41	Paint	1ST	KITCHEN	BASEBOARD	WHITE	WOOD		C	INTACT	Positive	1	1.6
836	5/6/2020 8:41	Paint	1ST	KITCHEN	BASEBOARD	WHITE	WOOD		C	INTACT	Positive	1	3.8
837	5/6/2020 8:42	Paint	1ST	KITCHEN	WALL	GRAY	PLASTER		D	INTACT	Negative	1	0
838	5/6/2020 8:43	Paint	1ST	BREAKFAST	WALL	GRAY	DRYWALL		A	INTACT	Negative	1	0
839	5/6/2020 8:44	Paint	1ST	BREAKFAST	WALL	GRAY	DRYWALL		B	INTACT	Negative	1	0
840	5/6/2020 8:44	Paint	1ST	BREAKFAST	BASEBOARD	WHITE	WOOD		A	INTACT	Negative	1	0
841	5/6/2020 8:45	Paint	1ST	HALLWAY	WALL	YELLOW	PLASTER		D	INTACT	Negative	1	0.1
842	5/6/2020 8:47	Paint	1ST	MASTER BED	DOOR	WHITE	WOOD	JAMB	D	CHIPPING	Positive	1	1.9
843	5/6/2020 8:47	Paint	1ST	MASTER BED	DOOR	WHITE	WOOD		D	CHIPPING	Negative	1	0.06
844	5/6/2020 8:47	Paint	1ST	MASTER BED	DOOR	WHITE	WOOD		D	CHIPPING	Negative	1	0.1
845	5/6/2020 8:48	Paint	1ST	MASTER BED	WINDOW	WHITE	WOOD	SILL	B	CHIPPING	Positive	1	2.2
846	5/6/2020 8:49	Paint	1ST	MASTER BED	WALL	WHITE	PLASTER		A	INTACT	Negative	1	0
847	5/6/2020 8:49	Paint	1ST	MASTER BED	WALL	WHITE	PLASTER		B	INTACT	Negative	1	0.16
848	5/6/2020 8:50	Paint	1ST	MASTER BED	WALL	WHITE	PLASTER		C	INTACT	Negative	1	0
849	5/6/2020 8:50	Paint	1ST	MASTER BED	WALL	WHITE	PLASTER		D	INTACT	Negative	1	0.5
850	5/6/2020 8:51	Paint	1ST	MASTER BED	WALL	WHITE	PLASTER		D	INTACT	Negative	1	0.4
851	5/6/2020 8:52	Paint	1ST	BATHROOM 1	WALL	GRAY	PLASTER		D	INTACT	Negative	1	0.02
852	5/6/2020 8:53	Paint	1ST	BATHROOM 1	WALL	GRAY	PLASTER		A	INTACT	Negative	1	0
853	5/6/2020 8:53	Paint	1ST	BATHROOM 1	WALL	GRAY	PLASTER		B	INTACT	Negative	1	0.12
854	5/6/2020 8:53	Paint	1ST	BATHROOM 1	WALL	GRAY	PLASTER		C	INTACT	Negative	1	0
855	5/6/2020 8:56	Paint	1ST	DINING RM.	WALL	BURGUNDY	PLASTER		A	INTACT	Negative	1	0.02
856	5/6/2020 8:56	Paint	1ST	DINING RM.	WALL	BURGUNDY	PLASTER		B	INTACT	Negative	1	0.01
857	5/6/2020 8:56	Paint	1ST	DINING RM.	WALL	BURGUNDY	PLASTER		C	INTACT	Negative	1	0
858	5/6/2020 8:56	Paint	1ST	DINING RM.	WALL	BURGUNDY	PLASTER		D	INTACT	Negative	1	0.1
859	5/6/2020 8:57	Paint	1ST	DINING RM.	WINDOW	WHITE	WOOD	SILL	D	CRACKING	Positive	1	2.7
860	5/6/2020 8:58	Paint	1ST	BUTLER'S	CABINET	WHITE	WOOD		D	CRACKING	Positive	1	2.1
861	5/6/2020 8:59	Paint	1ST	DINING RM.	DOOR	WHITE	WOOD	JAMB	B	CRACKING	Positive	1	2.5
862	5/6/2020 9:00	Paint	1ST	LIVING RM.	WALL	WALLPAPER	PLASTER		B		Negative	1	0.4
863	5/6/2020 9:01	Paint	1ST	LIVING RM.	WALL	WALLPAPER	PLASTER		C		Negative	1	0
864	5/6/2020 9:01	Paint	1ST	LIVING RM.	WALL	WALLPAPER	PLASTER		D		Negative	1	0.22
865	5/6/2020 9:02	Paint	1ST	LIVING RM.	WALL	WALLPAPER	PLASTER		A		Negative	1	0.2
866	5/6/2020 9:02	Paint	1ST	LIVING RM.	WINDOW	WHITE	WOOD	SILL	A	PEELING	Positive	1	2.8
867	5/6/2020 9:04	Paint	1ST	GAME RM	WALL	YELLOW	PLASTER		A	INTACT	Negative	1	0.4
868	5/6/2020 9:05	Paint	1ST	GAME RM	WALL	YELLOW	PLASTER		B	INTACT	Negative	1	0
869	5/6/2020 9:06	Paint	1ST	GAME RM	WALL	YELLOW	PLASTER		C	INTACT	Negative	1	0.4
870	5/6/2020 9:06	Paint	1ST	GAME RM	WALL	YELLOW	PLASTER		D	INTACT	Negative	1	0.4
871	5/6/2020 9:07	Paint	1ST	GAME RM	BASEBOARD	WHITE			D	INTACT	Positive	1	2.3
872	5/6/2020 9:08	Paint	1ST	GAME RM	DOOR	WHITE	WOOD	JAMB	D	INTACT	Positive	1	2

Reading No	Time	Type	Floor	Room	Component	Color	Substrate	Part	Side	Condition	Results	Action Level	PbC (mg/cm2)
873	5/6/2020 9:09	Paint	1ST	STAIRWELL	RAIL	WHITE	WOOD		A	INTACT	Positive	1	2
874	5/6/2020 9:12	Paint	1ST	BEDROOM 1	WALL	MUSTARD	PLASTER		A	INTACT	Negative	1	0.03
875	5/6/2020 9:13	Paint	1ST	BEDROOM 1	WALL	MUSTARD	PLASTER		A	INTACT	Negative	1	0.3
876	5/6/2020 9:15	Paint	1ST	BEDROOM 1	WALL	MUSTARD	PLASTER		B	INTACT	Negative	1	0.3
877	5/6/2020 9:16	Paint	1ST	BEDROOM 1	WALL	MUSTARD	PLASTER		C	INTACT	Negative	1	0.1
878	5/6/2020 9:17	Paint	1ST	BEDROOM 1	WALL	MUSTARD	PLASTER		D	INTACT	Negative	1	1.2
879	5/6/2020 9:18	Paint	1ST	BEDROOM 1	WALL	MUSTARD	PLASTER		D	INTACT	Negative	1	1.1
880	5/6/2020 9:19	Paint	1ST	BEDROOM 1	WALL	MUSTARD	PLASTER		D	INTACT	Negative	1	0.4
881	5/6/2020 9:20	Paint	1ST	BEDROOM 1	WALL	MUSTARD	PLASTER		D	INTACT	Negative	1	0.4
882	5/6/2020 9:21	Paint	1ST	BEDROOM 1	WINDOW	MUSTARD	WOOD	SILL	D	INTACT	Positive	1	1.8
883	5/6/2020 9:21	Paint	1ST	BEDROOM 1	CROWN	WHITE	WOOD		C	INTACT	Negative	1	0.6
884	5/6/2020 9:23	Paint	1ST	BEDROOM 2	WALL	GREEN	PLASTER		A	INTACT	Negative	1	0.3
885	5/6/2020 9:23	Paint	1ST	BEDROOM 2	WALL	GREEN	PLASTER		B	INTACT	Negative	1	0
886	5/6/2020 9:24	Paint	1ST	BEDROOM 2	WALL	GREEN	PLASTER		B	INTACT	Negative	1	0.01
887	5/6/2020 9:24	Paint	1ST	BEDROOM 2	WALL	GREEN	PLASTER		C	INTACT	Negative	1	0.3
888	5/6/2020 9:25	Paint	1ST	BEDROOM 2	WALL	GREEN	PLASTER		D	INTACT	Negative	1	0.08
889	5/6/2020 9:26	Paint	1ST	BEDROOM 2	DOOR	GREEN	WOOD	JAMB	C	INTACT	Positive	1	1.6
890	5/6/2020 9:26	Paint	1ST	BEDROOM 3		BLUE	PLASTER		A	INTACT	Negative	1	0.17
891	5/6/2020 9:27	Paint	1ST	BEDROOM 3		BLUE	PLASTER		B	INTACT	Negative	1	0.3
892	5/6/2020 9:28	Paint	1ST	BEDROOM 3		BLUE	PLASTER		C	INTACT	Negative	1	0.4
893	5/6/2020 9:29	Paint	1ST	BEDROOM 3		BLUE	PLASTER		D	INTACT	Negative	1	0.11
894	5/6/2020 9:29	Paint	1ST	BEDROOM 3	BASEBOARD	WHITE	WOOD		D	INTACT	Negative	1	0.7
895	5/6/2020 9:30	Paint	1ST	BEDROOM 3	BASEBOARD	WHITE	WOOD		D	INTACT	Positive	1	2.5
896	5/6/2020 9:31	Paint	1ST	BEDROOM 4	WALL	PURPLE	PLASTER		A	INTACT	Negative	1	0.4
897	5/6/2020 9:32	Paint	1ST	BEDROOM 4	WALL	PURPLE	PLASTER		B	INTACT	Negative	1	0
898	5/6/2020 9:32	Paint	1ST	BEDROOM 4	WALL	PURPLE	PLASTER		C	INTACT	Negative	1	0.3
899	5/6/2020 9:33	Paint	1ST	BEDROOM 4	WALL	WHITE	PLASTER		D	INTACT	Negative	1	0
900	5/6/2020 9:34	Paint	1ST	BEDROOM 4	WINDOW	PURPLE	WOOD	CASING	C	PEELING	Negative	1	0.6
901	5/6/2020 9:35	Paint	1ST	BEDROOM 4	WINDOW	PURPLE	WOOD	SILL	C	PEELING	Positive	1	1.7
902	5/6/2020 9:36	Paint	1ST	BEDROOM 4	FLOOR	BROWN	WOOD			INTACT	Negative	1	0.01
903	5/6/2020 9:37	Paint	2ND	HALLWAY	FLOOR	BROWN	WOOD			INTACT	Negative	1	0.01
904	5/6/2020 9:38	Paint	2ND	BATHROOM 2	WALL	WHITE	PLASTER		A	INTACT	Negative	1	0.11
905	5/6/2020 9:38	Paint	2ND	BATHROOM 2	WALL	WHITE	PLASTER		B	INTACT	Negative	1	0.07
906	5/6/2020 9:38	Paint	2ND	BATHROOM 2	WALL	WHITE	PLASTER		C	INTACT	Negative	1	0
907	5/6/2020 9:38	Paint	2ND	BATHROOM 2	WALL	WHITE	PLASTER		C	INTACT	Negative	1	0
908	5/6/2020 9:39	Paint	2ND	BATHROOM 2	WALL	WHITE	PLASTER		D	INTACT	Negative	1	0.15
909	5/6/2020 9:40	Paint	2ND	BEDROOM 3	CROWN	WHITE	WOOD		D	INTACT	Negative	1	0.7
910	5/6/2020 9:40	Paint	2ND	BEDROOM 3	CROWN	WHITE	WOOD		D	INTACT	Negative	1	0.21
911	5/6/2020 9:41	Paint	2ND	BEDROOM 3	CROWN	WHITE	WOOD		D	INTACT	Negative	1	0.6
912	5/6/2020 9:42	Paint	2ND	STAIRWELL	CHAIR RAIL	BLACK	WOOD		A	INTACT	Negative	1	0
913	5/6/2020 9:44	Paint	BASEME		WALL	GRAY	BRICK		A	PEELING	Negative	1	0
914	5/6/2020 9:46	Paint	BASEME	STAIRWELL	DOOR	GREEN	WOOD		B	PEELING	Negative	1	0.3
915	5/6/2020 9:49	Paint	EXTERIO	KITCHEN	SIDING	GRAY	WOOD		C	PEELING	Positive	1	17.2
916	5/6/2020 9:50	Paint	EXTERIO	KITCHEN	WINDOW	PINK	WOOD	CASING	C	PEELING	Positive	1	8.3
917	5/6/2020 9:53	Paint	NIST CAL								Negative	1	0.9

Performance Characteristic Sheet

EFFECTIVE DATE: September 24, 2004

EDITION NO.: 1

MANUFACTURER AND MODEL:Make: *Niton LLC*Tested Model: *XLp 300*Source: ^{109}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 ² (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² 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 ²)
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

ATTACHMENT II
LABORATORY REPORT FOR SOIL SAMPLE



Analysis for Lead Concentration in Soil Samples

by Flame Atomic Absorption Spectroscopy
EPA SW-846 3050B/6010C/7000B



Customer: Crossroads Environmental LLC
1258 Boiling Springs Rd
Spartanburg, SC 29303

Attn: Kay Horton

Lab Order ID: 71941839

Analysis ID: 71941839_PBS

Date Received: 5/8/2020

Date Reported: 5/8/2020

Project: 18098-IL (S. Converse)

Sample ID	Description	Mass (g)	Concentration (ppm)	Concentration (% by weight)
Lab Sample ID	Lab Notes			
233	Dripline soil	1.1596	3800	0.38%
71941839PBS_1				

Unless otherwise noted blank sample correction was not performed on analytical results. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. Analytical uncertainty available upon request. The quality control samples run with the samples in this report have passed all EPA required specifications unless otherwise noted. RL: (Report Limit for an undiluted 50ml sample is 4µg Total Pb).

Matthew Caffey (1)

Analyst

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

Laboratory Director

**ATTACHMENT III
FLOOR PLANS**



CROSSROADS
ENVIRONMENTAL, LLC

SAMPLE LOCATION SKETCH

Sketch #: 001

Project Name: 293 S. Converse Street

Project ID: 18098-IL

Date: 5/6/2020

S. Converse Street

Front
Porch

Game Room

Master
Bedroom

Breakfast Area

Living Room

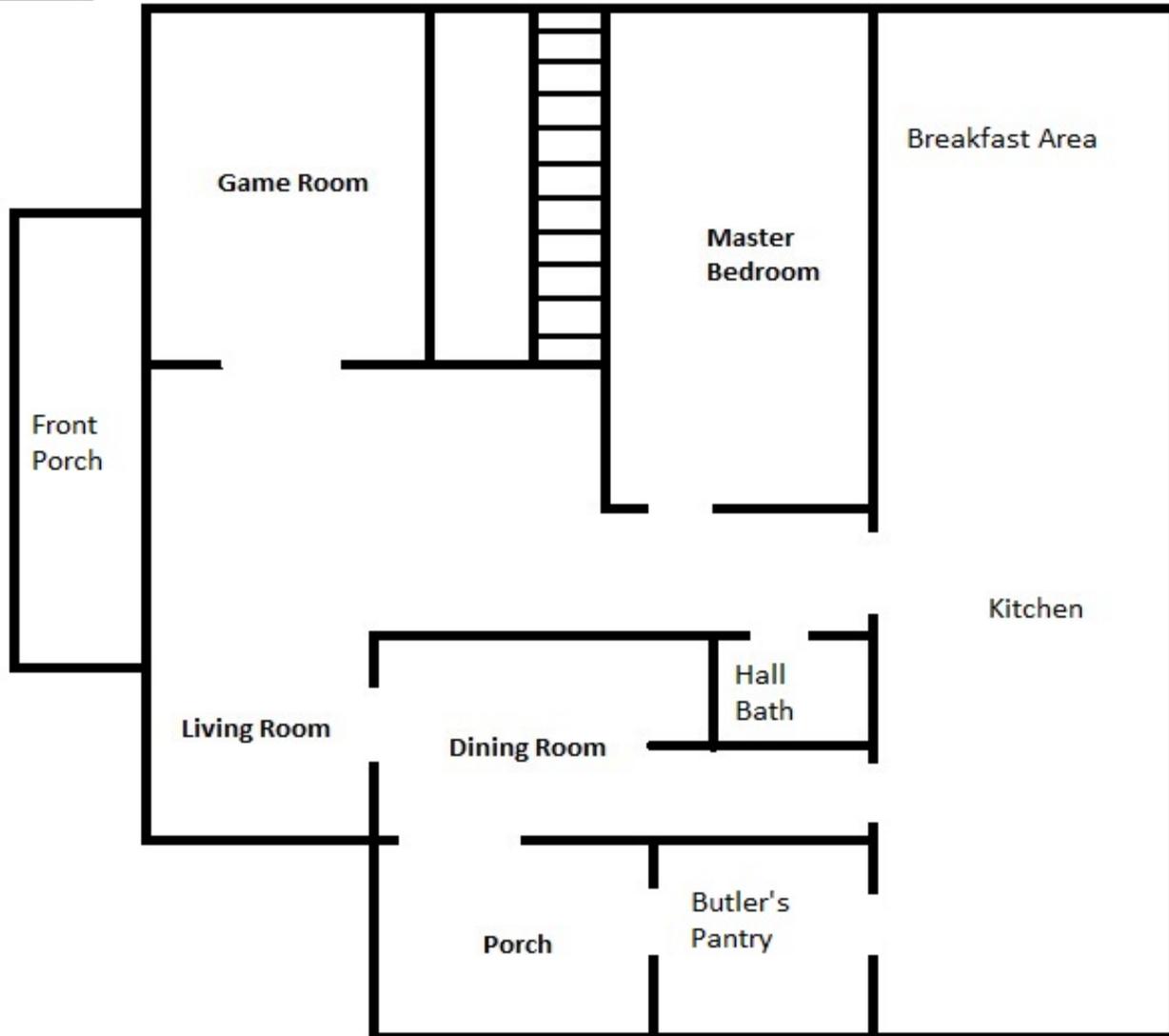
Dining Room

Hall
Bath

Kitchen

Porch

Butler's
Pantry





CROSSROADS
ENVIRONMENTAL, LLC

SAMPLE LOCATION SKETCH

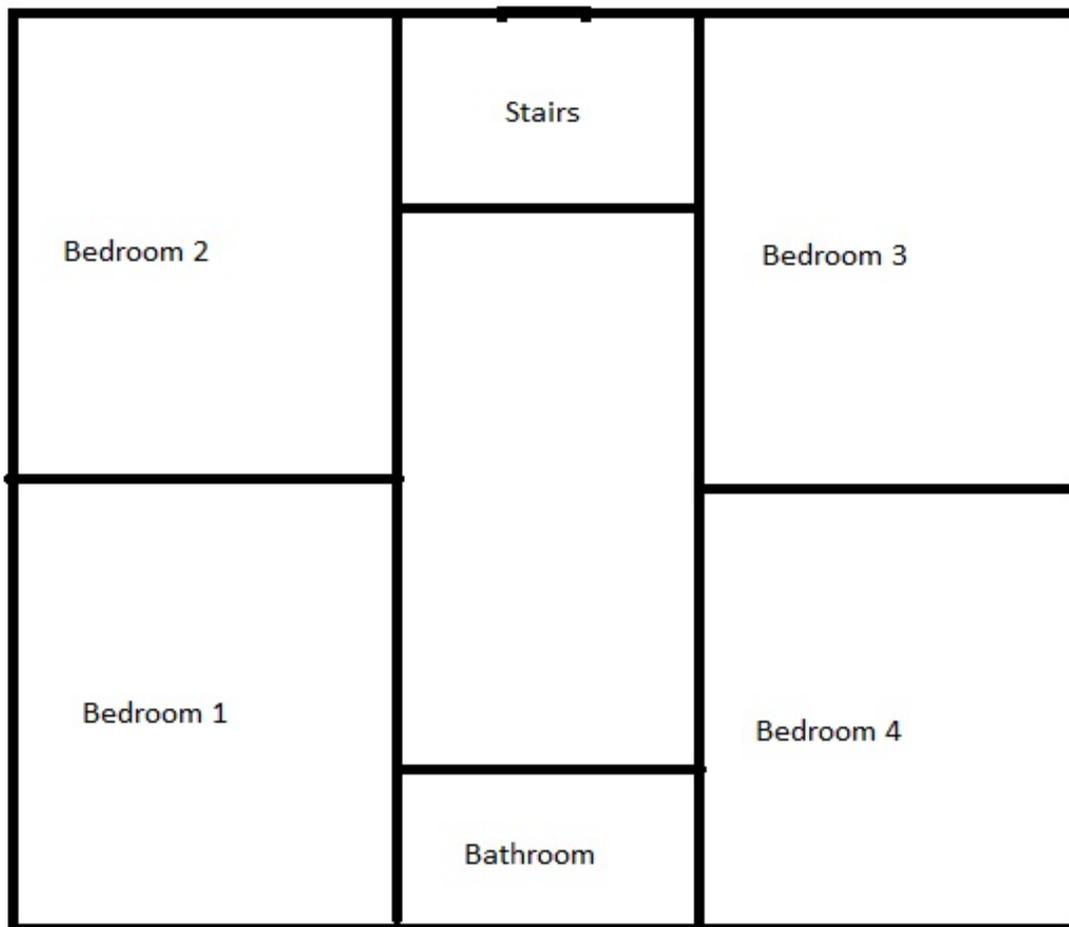
Sketch #: 002 (Second Floor)

Project Name: 293 S. Converse St.

Project ID: 18098-IL

Date: 5/06/2020

S. Converse Street



**ATTACHMENT IV
LEAD CERTIFICATION**

United States Environmental Protection Agency

This is to certify that



Kay H Horton

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and
Territories

This certification is valid from the date of issuance and expires December 27, 2022

LBP-R-117167-2

Certification #

August 21, 2019

Issued On



Adrienne Priselac, Manager, Toxics Office

Land Division