

**CITY OF NORWICH
OFFICE OF DEVELOPMENT
23 UNION STREET
NORWICH, CONNECTICUT 06360**

**CITY OF NORWICH
PROPERTY REHABILITATION &
LEAD PAINT HAZARD CONTROL
PROGRAMS
Project LP1636-RP1411**

**22-24 Slater Avenue
Norwich, CT. 06360**

PROJECT SPECIFICATION

**Bid 1-Lead Paint Hazard Control
Bid 2-Heating and Plumbing**

**CITY OF NORWICH
INVITATION TO BID PROPERTY REHABILITATION & LEAD PAINT
HAZARD CONTROL PROGRAMS**

**Bid for: LP1637-RP1411
22-24 Slater Avenue
Norwich CT 06360**

**Bid 1-Lead Paint Hazard Control
Bid 2- Heating & Plumbing**

Bids are being sought for the project for the property located at:
The residence at

22-24 Slater Avenue

This project is being funded through the Property Rehabilitation Program and/or HUD Lead Based Paint Hazard Control in Priority Housing Program. Contractors must be aware that the City of Norwich is an Equal Opportunity Employer. Contract documents including the lead abatement plan and property rehabilitation specifications may be obtained from the Office of Community Development, 23 Union Street, Norwich, CT. Office hours are from 8:30 AM to 4:30 PM, Monday through Friday. **A pre-bid conference will be held on Friday April 5, 2019 at 10:00 AM at the project location. Attendance at that meeting is recommended to bid on this project.**

Sealed bids will be received at the Office of Community Development, 23 Union Street, Norwich, CT until 4:00 PM, on Friday, April 12, 2019, at which time they will be opened and read aloud. The City of Norwich reserves the right to reject any and all bids, or any part of any bid where such action is deemed to be in the best interest of the City.

**EQUAL EMPLOYMENT/OPPORTUNITY
AFFIRMATIVE ACTION
FAIR HOUSING AGENCY**

CITY OF NORWICH
OFFICE OF DEVELOPMENT
23 UNION STREET
NORWICH, CONNECTICUT
860-823-3770

SPECIFICATIONS FOR THE PROJECT KNOWN AS:

22-24 Slater Avenue
Norwich. CT 06360

TABLE OF CONTENTS:

<u>Description</u>	<u>Page</u>
General Bidding Instructions	<u>4</u>
Notice of Invitation to Bid	<u>5</u>
Project Location Map	<u>6</u>
Bidding and General Program Policies	<u>7-8</u>
Product Allowances	<u>9</u>
Basic Bid Package	<u>10, 12</u>
Payment Request Form	<u>11, 13</u>
Heating & Plumbing Specs.	<u>15-16</u>
Lead Inspections	<u>1A</u>
Lead Scope of work	<u>1B</u>

GENERAL BIDDING INSTRUCTIONS:

1. The contractor is to obtain and review the Project Specifications and prepare a quotation for all work specified on the Company Letterhead and the enclosed bid form.
2. Contractors are urged to attend the Pre-Bid conference on **04-05-19 At 10:00 a.m.** Failure to attend the Pre-Bid conference may result in incomplete bid information.
3. Bid proposals are to be submitted in a sealed envelope addressed as follows:

Community Development, Property Rehabilitation Program
Bid Project: #LP1637-RP1411 22-24 Slater Avenue
-On the outside front of the envelope-

4. **The sealed bid proposals will be received until 4:00 PM on 04-12-19,** at the Office of Community development which time they will be opened and read aloud.
5. It is the contractor's responsibility to ensure they have all the project addendums and changes made to the scope of work prior to the bid due date. Copies of the addendum will be available at the city offices. Copies of addendum are to be attached with each bid. Failure to attach the addendum sheets will disqualify the bidder.

The information contained in this bid package is for the purpose of providing general project specifications of the items included in the scope of work. Code compliance work required by the local building officials and fire marshal will be limited to those items directly relating to lead abatement activities. All other code compliance issues will be the responsibility of the property owner, and will not be funded under this program.

Funding provided under this program will be in the form of a two party check made out to the Property Owner and the Contractor. The Property Owner will authorize the release of the check by personally signing it at the City of Norwich Office of Development. The contractor may then pick up the check or notify the City to mail it to the contractors address listed herein. Contractors should allow a minimum of 15 days for payment of approved invoices. The contract documents further describe the payment process.

Items not included in this specification, that are required for a complete installation or operation are considered part of this specification. All issues pertaining to code compliance should be directed to the Building Official. It is the responsibility of the contractor to secure and pay for all required permits, and terminate all required permits with inspections required by the permitting authority. Copies of all permits to be provided to the City at the time of issue and release.

Prior to the start of any construction activities, the contractor must request a pre-abatement inspection which will review the containment preparations, licensure, and proper set up of construction activities and safety equipment, if the work Specification requires it.

**NOTICE OF INVITATION TO BID
GENERAL INFORMATION**

PROJECT NAME: LP1637-RP1411
ADDRESS: 22-24 Slater Avenue
Norwich, Connecticut, 06360

OWNERS NAME: Marie and Gerard Sanon
OWNERS ADDRESS: 22-24 Slater Avenue
Norwich CT. 06360

OWNERS PHONE NO: 860-574-0260

For the City of Norwich, Contact:

City of Norwich
Office of Development
23 Union Street
Norwich, CT 06360
(860) 823-3770
Wayne R. Sharkey, Property Rehabilitation, Program Manager
Office hours: Monday – Friday 8:30 am – 4:30 pm

Contractor:

Additional project specifications may be obtained at:

Community Development Office
23 Union Street
Norwich, Connecticut 06360
(860) - 822 - 3770

Project specifications may be obtained during normal business hours 8:30 AM - 4:30 PM,
Monday thru Friday.

22 Slater Ave



22 Slater Ave
Norwich, CT 06360

BIDDING AND GENERAL PROGRAM POLICIES

1. The omission of any items listed in the Basic Bid Package will result in the disqualification of the bid.
2. All addendums and scope changes discussed at the bid walk through will be written up and available at the city office prior to the bid opening date. All addendum and changes to be attached to the bid forms and signed by the contractor. Failure to attach addendum and changes may result in bid disqualification.
3. Bid readings are open to the public. No bid documents will be made available to contractors or the public without supervision at the bid opening. Results of the bidding will be available at the Office of Development the following business day.
4. The City of Norwich reserves the right to reject any bid when it is deemed to be in the best interest of the City and/or the property owner. The City of Norwich further reserves the right to accept or reject portions of any bid when it is deemed to be in the best interest of the City and or the property owner.
5. Disputes and protests:
 - a. If a contractor feels that a bidder has submitted an incomplete bid, or has evidence of other improprieties that negatively impact their own qualified bid, they may file a protest with the City of Norwich, Office of Development within 7 calendar days of the Bid opening.
 - b. Such notice shall be in writing and include copies of evidence required to prove or disprove the questionable bids.
 - c. Bid protests will not be accepted by unqualified bidders, or bidders who have been disqualified for incomplete bids.
 - d. All bid protests will be reviewed by program staff and the Director of Development. The decision rendered by the director of development will be final.
 - e. Contractors submitting frivolous bid protests are hereby warned that unjustified and groundless protests may result in the loss of future bidding privileges
6. Bidder Limitation Policies:
 - a. Bidders may hold no more than three active contracts between either the Lead or Rehab program. (However Contractors may request exception to this rule if they can provide assurances sufficient to the timely start and completion of project contracts.) Acceptance/denial of such a request is solely at the discretion of the Rehabilitation Specialist.
 - b. Bidders holding three open contracts, will be prohibited from future bidding until the closeout of one or more open contracts. (see- exception clause)
 - c. Contract holders that are in delinquent standing of any project completion date, may be prohibited from bidding until all delinquent projects are closed out.
 - d. New Contractors will be subject to a probationary period in which they may hold only one contract. Once a new contractor has entered into their first contract for a Property Rehabilitation or Lead Hazard Reduction project, they will not be allowed to bid further projects until the successful completion of the probationary period. During the probationary period the Contractor will be evaluated based on

their performance according to both the project contract, and overall program requirements. At the completion of the project the Program Manger will give the Contractor written notice outlining their acceptance or denial as a Contractor "in good standing", for future Projects.

7. Lead Abatement Clearance Policies:
 - e. Both the first and second rounds of dust wipes tests are included in program costs.
 - f. Further failures will be assessed to the project contractor in the form of an \$80.00 per hour inspector fee.
 - g. All additional testing fees must be paid in full prior to the release of final payment to the contractor.

BASIC PRODUCT SELECTION ALLOWANCES:

As the most common work items for Lead Paint Hazard Control projects, the following door selection pricings will be implemented as they are applicable to each project scope.

Exterior grade door (standard sizes), hardware & trim: Max Owner selection \$500.00 per

Exterior grade door with Side lights, hardware & trim: Max Owner selection \$1,000.00 per

Interior Door slab only: Max Owner selection \$85.00 per

Interior Door, casing, trim, and hardware: Max Owner Selection \$175.00 per

Storm Doors: \$225.00

General Selections such as roof or siding colors are to documented between the Contractor and Home Owner then submitted to the Program Manager prior to start of work.

OTHER PRODUCT BIDDING REQUIRMENTS

Where Lead Paint Hazard Control, and Rehabilitation Projects include various other building products, the contractor is responsible include "Builders Grade Materials and Products, with basic selections for colors and style where applicable."

For program purposes (Builders Grade Products) shall be defined as middle grade market available building products by costs. Prior to contract signing, the Contractor, Program Manager and Property owner will meet to review and approve all product selections.

NOTE: Property owners may elect to select higher grade or specialty products only at their own cost, and if such a selection does not delay the normal agreed upon schedule of work. No product alterations shall be made after contract signing unless under special circumstance, approved by Program Management.

HISTORICAL REQUIREMENTS (Windows)

Some projects that are located in National or Local historic districts must comply with the following:

- 1. All wood construction window.**
- 2. In like form and fashion of the pre-existing.**
- 3. May be simulated divide, but manufactured Mullions must be part of the factory construction of the window unit not after-market pieces.**
- 4. All windows must be primed and painted to match original.**

BASIC BID PACKAGE: Bid 1-Lead Paint Hazard Control

The City of Norwich, Office of Community Development basic bid package is enclosed and shall be submitted as follows:

1. This Instruction Sheet with signed bidders certification
2. Payment Request from filled out and totaled.
3. Non-Collusion Affidavit.
4. Proof of insurance
5. Proof of licensure as a home improvement contractor in the State of Connecticut.
6. Proof of Licensure as a Lead Abatement contractor in the State of Connecticut (if applicable)
7. Copies of all addendum sheets properly signed and filled out as directed.

*** Please note, items 3,4,5, and 6 may be submitted once annually. It is also the contractor's responsibility to insure that these items are updated as they expire. Please be aware that the submittal of items 1,2,and 7 will only constitute a complete bid package if all other items are on file and up to date with the City of Norwich.

BIDDERS CERTIFICATION

I, _____, acting on behalf of _____
A contractor registered in the State of Connecticut, have reviewed the bid requirements, bid documents and site conditions and hereby propose to complete the work specified for the amount of _____ dollars (\$ _____)

I will guarantee this price for a maximum of 15 days from the date of this proposal. I will be able to start this project on or about _____, 2019. This project is allotted **25, calendar days** to complete the specified scope, baring weather and or other excusable delays. (Note: Work items that cannot be undertaken during winter months such as exterior encapsulation or soils, shall have a completion date of no later than May 30th) I am aware that if I fail to complete the work in the time required, I may be penalized based upon the terms of the contract.

Signed by: _____ (Print Name) Date: _____

Signature: _____ Phone: _____

Contractor Name: _____

Address: _____

BASIC BID PACKAGE: Bid 2-Heating and Plumbing

The City of Norwich, Office of Community Development basic bid package is enclosed and shall be submitted as follows:

1. This Instruction Sheet with signed bidders certification
2. Payment Request from filled out and totaled.
3. Non-Collusion Affidavit.
4. Proof of insurance
5. Proof of licensure as a home improvement contractor in the State of Connecticut.
6. Proof of Licensure as a Lead Abatement contractor in the State of Connecticut (if applicable)
7. Copies of all addendum sheets properly signed and filled out as directed.

*** Please note, items 3,4,5, and 6 may be submitted once annually. It is also the contractor's responsibility to insure that these items are updated as they expire. Please be aware that the submittal of items 1,2,and 7 will only constitute a complete bid package if all other items are on file and up to date with the City of Norwich.

BIDDERS CERTIFICATION

I, _____, acting on behalf of _____
A contractor registered in the State of Connecticut, have reviewed the bid requirements, bid documents and site conditions and hereby propose to complete the work specified for the amount of _____ dollars (\$ _____)

I will guarantee this price for a maximum of 15 days from the date of this proposal. I will be able to start this project on or about _____, 2019. This project is allotted **10, calendar days** to complete the specified scope, baring weather and or other excusable delays. (Note: Work items that cannot be undertaken during winter months such as exterior encapsulation or soils, shall have a completion date of no later than May 30th) I am aware that if I fail to complete the work in the time required, I may be penalized based upon the terms of the contract.

Signed by: _____ (Print Name) Date: _____

Signature: _____ Phone: _____

Contractor Name: _____

Address: _____

201. NON-COLLUSION AFFIDAVIT OF CONTRACTOR

State of _____)
County of _____) ss.

_____, being first duly sworn, deposes and says that :

(1) He is (owner, partner, officer, representative, or agent) of _____

(hereafter refer to as the "Contractor"), who has executed the Agreement, of which this affidavit is a part;

(2) He is fully informed respecting the preparation and contents of said Agreement and the Contract Price and all pertinent circumstances respecting such Agreement and Contract Price;

(3) Such Contract Price is genuine and not a collusive or sham price;

(4) Neither the Contractor nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affidavit, has in any way colluded, conspired, connived, or agreed, directly or indirectly, with any other contractor, bidder, firm or person to submit a collusive or sham price or bid in connection with such work, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other contractor, bidder, firm or person to fix the price or prices offered by the Contractor and accepted by the owner, or to fix the offered price of any other bidder, or to secure through collusion, conspiracy, connivance or unlawful agreement any advantage against the Owner and/or the City or any person interested in this agreement; and

(5) The price or prices offered by the contractor and accepted by the Owner as the Contract price is fair and proper and is not obtained by any collusion, conspiracy, connivance or unlawful agreement on the part of the Contractor or any of its agents, representatives, owners, employees or parties in interest, including this affiant.

(Seal, if corporation) _____

By: _____

Title: _____

Subscribed and sworn to before me this _____ day of

_____, 20_____.

***** General Acknowledgement: This Affidavit is to apply to all projects, bid through the City of Norwich, Community Development Center. (2019)**

BY

REHABILITATION PROGRAM:

22-24 Slater Avenue

HEATING (General Instructions and requirements)

Unit 22 & 24

Existing heating systems: Contractor to include removal of existing Heating systems and all associated hardware as need to accommodate the new installations. Include the Removal and disposal of all existing steam radiators.

Install (#2) new combination, on demand, natural gas fired, hot water heating units “Stainless steel heat exchanger”, (Zone configuration to follow existing for each Unit, include new electronic thermostats, locations in coordination with Home Owner)

Domestic Capacity minimum (GPM 4.5)

Contractor to install all new hot water baseboards (white/off white)

Note: Floor penetrations left from removal of cast iron radiators will be patched by a future contract.

Basic Product Requirements

(Noritz, Navien, Rinnai, or approved equal.)

Direct vent with BTU/capacity based on a heat loss analysis or equivalent assessment approved by the local Building Department. Existing vent openings to chimneys are to be capped as required. Use of existing chimneys for the purpose of venting may be possible

based on a Building Department inspection/approval. However base bids are to be submitted with direct venting to the exterior without use of the existing chimney or chimney's.

(94% AFUE Minimum- Energy Star rating required.)

***Additional Contractor Inclusions-**

Complete installation to include all hardware and labor required for the installation, direct venting, and connection of domestic hot water through the new unit. All costs associated with connection to utilities where they enter the home, such as electrical, or gas, are to be included in the base bid. Contractors are expected to include any modifications to access these utilities based on the location to the new installation. Include venting, draining of any existing hot water tanks where required. Include removal and securing of any chimney vented appliance if applicable, as well as removal of cast iron radiators when (specifically listed to do so.)

General Notes: Contractors are responsible for coordinating with N.P.U. and the local Building Department for all required inspections/testing as may be required. It is the contractor's responsibility to account for the general conditions and requirements per project based on a thorough inspection at each on site meeting.

Connecticut Lead Paint Solutions, LLC

1245 Hebron Avenue
Glastonbury, CT 06033
860-633-3330
CT License #2124
andrew@ctleadpaint.com

Lead Paint Inspections & Testing
Consulting & Cost Analysis
Abatement/Management Plans
Abatement & Clean-up

Lead Paint Inspection Report and Lead Hazard Assessment

Connecticut Lead Consultant and Contractor License #002124
Lead Inspector/Risk Assessor, CT #002179

This report is prepared for;
City of Norwich
Lead Paint Hazard Control Program
23 Union St
Norwich, CT 06360

The property inspected was;
22 – 24 Slater Ave
Norwich, CT 06360

Owners; Gerard and Marie Sanon

The testing instrument used is a Niton XLp 300A Lead Paint, Spectrum Analyzer, serial #16387. A reading of 1.0 milligrams lead per square centimeter of surface ($1.0\text{mg}/\text{cm}^2$) or greater is defined as a toxic level of lead, by the State of Connecticut, Dept. of Public Health, Regulations for Lead Poisoning Prevention and Control, 19a-111-1a. The inspection protocol as detailed in Chapter 7 of the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (2012 Revision) was used for this inspection. The testing mode is K+L Spectrum.

At the beginning and end of the inspection and after four hours of testing, calibration tests are done on known control standards and the readings recorded to ensure the accuracy of the testing device. The calibration lines on the data sheets provides the measured lead concentration of the control standards (in the Condition Column) and whether the lead is at the surface or buried under non-lead paint.

The testing protocol is to test representative samples of various building components or sub-components per room or area. The test result for the representative sample is then applied to the other similar component(s) in that room or area. Refer to the floor plan attach toward the end of this report for the location of the rooms and walls sides (A, B, C, D).

Any lead reading $1.0\text{mg}/\text{cm}^2$ or greater is positive for toxic levels of lead and the line for that reading is in **red print** on the data sheets.

This inspection is for lead in paint primarily. The paint was tested on site. Dust and soil samples were also collected for analysis of lead concentrations by accredited laboratories.

The inspection was done on September 27 and October 08, 2018.

The property inspected is a two-family house built in or about 1930. All interior rooms or areas were fully inspected including the complete 3rd floor and the Basement Stairs. The unfinished basement was not inspected.

Only a few of the interior surfaces tested in the 1st floor apartment, the Front Stairs, Rear Stairs and the Basement Stairs were positive for lead-based paint (LBP). More positive surfaces were detected in the 2nd floor apartment and none were found on the 3rd floor of that apartment. Almost all interior positive readings were intact.

Most of the window sashes (the part of the window which contains the glass and is movable) in the house have been replaced with vinyl or metal replacement windows. The wood windows in both the 1st and 2nd floor Bath rooms were negative for LBP on all interior and exterior surfaces. All other remaining wood window sashes are positive for LBP.

The exterior of the house is completely covered with vinyl siding and aluminum window casings and upper trim (exterior soffits and fascia trim). Some painted wood trim is still exposed adjacent to the vinyl replacement windows or are behind the remaining aluminum storm units. Some painted surfaces tested on the exterior of the house were positive for LBP and some were also defective.

The detached garage was tested on the exterior only; most surfaces tested were positive for LBP. The single entrance door and the overhead door were negative for LBP

Lead in Dust and Soil Assessment

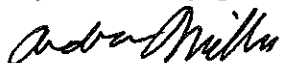
Twelve dust wipe samples were collected for analysis of lead concentrations by an accredited laboratory. Two floor and two window wells dust wipe samples were over the limits set by HUD for risk assessment testing, therefore failing. Eight others passed. The limits must not exceed 10 μ g/ft² (micrograms lead per square foot of surface area) for floors and 100 μ g/ft² for window sills and wells. These samples were collected in accordance with the collection protocol as stated in the HUD Guidelines.

One soil sample was collected for analysis of lead concentrations by an accredited laboratory. It was a composite sample collected from bare soil with-in one foot of the perimeter of the foundation from two sides of the house. The B and D sides have concrete adjacent to the house and were not sampled.

The Federal EPA's section 403 Guidelines for soil concentrations are determined by the land use by children. If the area is expected to be used by children, various interim controls to prevent contact between children and contaminated soil are recommended for soil lead levels above 400ppm but less than 5000ppm. Some action will be required at this site on the A and C sides of the house.

All the test results are detailed on the data sheets for the inspection.

If you have any questions on this report, please do not hesitate to contact me.



Andrew Miller
Lead Inspector/Risk Assessor, CT #002179
October 13, 2018

How to read the data sheets

Starting from the left side column.

Index	The instrument assigns a number to every reading.
Fl.	Floor level
Room	Indicated which room or area was tested. The room or area is also detailed on the floor plan.
Side	The side of the room that faces the street is the A Side, the B side is clockwise to the A wall, the C wall is opposite the A wall and so on. For the exterior the A side is the front facing the street, the B side is clockwise, the C side is the rear ect. See attached floor plan for more details.
Component	Indicates which building component was tested, window, door, wall ect. Many components have sub-components such as a window <i>casing</i> or window <i>sash</i> . If there is more than 1 similar building component on a wall in a room or area, than the component may be further described as being the Lft for left, Ctr for center or Rht for right. This would be as you face the wall.
Substrate	Indicates what building material the component was constructed of. Not always accurate for drywall or plaster walls.
Color	Indicates the color of the test surface. The color selected is influenced by many factors including lighting, contrasting colors, smoke films and others.
Condition	Indicates the condition of the paint film or the substrate. The ratings are as follows; Intact, a paint film with no cracked or peeling paint; Fair, the paint film is cracked or chipped but paint chips can not be picked off; Poor, the paint film is cracked or chipped and paint chips can be picked off; Peeling; the paint film is very loose and can fall off with little or no external effort; Defective-Sub, defective substrate. The worse visible condition is noted. Substrate conditions are only listed if it affects the condition of the paint film.
Result	Indicates the results of that test. Either Positive, equal to or greater than 1.0 milligrams lead per square centimeter of surface ($1.0\text{mg}/\text{cm}^2$) Negative meaning below the action level of $1.0\text{mg}/\text{cm}^2$ or Null if the reading was interrupted and not completed. The incomplete reading is almost always followed by a complete reading from the same surface. All positive reading lines are in color print.
PbC	This is the range of the lead concentration in the dry paint. The testing instrument narrows the reading down to plus or minus from the main (1^{st}) number.

On the data sheets any lead reading $1.0\text{mg}/\text{cm}^2$ or greater is positive for lead-based paint and the line for that reading is in color print. The calibration readings are from the known control standards and not from any painted surface on the property tested. Even a property that has been certified as being “free of lead-based paint” will still have positive calibration readings listed on the report.

Index	FL.	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
1				Calibration- Surface			1.53mg/cm ²	Positive	1.50 ± 0.10
2				Calibration- Surface			1.04mg/cm ²	Positive	1.10 ± 0.10
3				Calibration- Surface			1.04mg/cm ²	Positive	1.00 ± 0.10
4				Calibration- Surface			1.04mg/cm ²	Positive	1.10 ± 0.10
5				Calibration-Surface			0.01mg/cm ²	Negative	0.00 ± 0.02
6	1st	Foyer	A	Door	Metal	White	Intact	Negative	0.00 ± 0.02
7	1st	Foyer	A	Door Jamb	Wood	Gray	Intact	Negative	0.00 ± 0.02
8	1st	Foyer	A	Door Casing	Wood	Gray	Intact	Negative	0.03 ± 0.08
9	1st	Foyer	A	Door Threshold	Wood	White	Fair	Negative	0.07 ± 0.15
10	1st	Foyer	D	Door	Wood	White	Intact	Negative	0.06 ± 0.10
11	1st	Foyer	D	Door Jamb	Wood	Gray	Intact	Negative	0.02 ± 0.07
12	1st	Foyer	D	Door Casing	Wood	Gray	Intact	Negative	0.10 ± 0.25
13	1st	Foyer	D	Door Threshold	Wood	White	Intact	Negative	0.01 ± 0.03
14	1st	Foyer	C	Closet Door	Wood	White	Intact	Positive	8.60 ± 6.50
15	1st	Foyer	C	Closet Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
16	1st	Foyer	C	Closet Casing	Wood	Gray	Intact	Negative	0.00 ± 0.02
17	1st	Foyer	C	Closet Cleat	Wood	White	Intact	Negative	0.00 ± 0.02
18	1st	Foyer	C	Closet Baseboard	Wood	White	Intact	Negative	0.25 ± 0.41
19	1st	Foyer	C	Closet Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
20	1st	Foyer	B	Baseboard	Wood	Black	Intact	Negative	0.06 ± 0.10
21	1st	Foyer	B	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
22	1st	Foyer	C	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
23	1st	Foyer	D	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
24	1st	Foyer	A	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
25	1st	Foyer	A	Ceiling Trim	Wood	White	Intact	Negative	0.00 ± 0.02
26	1st	Room 1	A	Window Sill Rht	Wood	Gray	Intact	Negative	0.14 ± 0.40
27	1st	Room 1	A	Window Casing	Wood	Gray	Intact	Negative	0.02 ± 0.04
28	1st	Room 1	A	Window Sill Ctr	Wood	Gray	Intact	Negative	0.30 ± 0.59
29	1st	Room 1	A	Window Casing	Wood	Gray	Intact	Negative	0.08 ± 0.17
30	1st	Room 1	A	Window Sill Lft	Wood	Gray	Intact	Negative	0.20 ± 0.58
31	1st	Room 1	A	Window Casing	Wood	Gray	Intact	Negative	0.07 ± 0.13
32	1st	Room 1	B	Door	Wood	White	Intact	Negative	0.13 ± 0.18
33	1st	Room 1	B	Door Casing	Wood	Gray	Intact	Negative	0.08 ± 0.17
34	1st	Room 1	C	Opening Casing	Wood	Gray	Intact	Negative	0.09 ± 0.22
35	1st	Room 1	C	Opening Ledge	Wood	Gray	Intact	Negative	0.07 ± 0.21
36	1st	Room 1	B	Radiator	Metal	Gray	Poor	Negative	0.02 ± 0.06
38	1st	Room 1	D	Baseboard	Wood	Gray	Intact	Negative	0.20 ± 0.35
39	1st	Room 1	A	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
40	1st	Room 1	B	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
41	1st	Room 1	D	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
42	1st	Room 1	D	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
43	1st	Room 1	C	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
44	1st	Room 1	C	Ceiling Trim	Wood	White	Intact	Negative	0.03 ± 0.07
45	1st	Room 2	B	Window Sill	Wood	Gray	Intact	Negative	0.20 ± 0.17
47	1st	Room 2	B	Window Casing	Wood	Gray	Intact	Negative	0.60 ± 0.40
48	1st	Room 2	C-D	Door	Wood	White	Intact	Negative	0.40 ± 0.50
49	1st	Room 2	C-D	Door Jamb	Wood	Gray	Fair	Negative	0.13 ± 0.23
50	1st	Room 2	C-D	Door Threshold	Wood	White	Fair	Negative	0.01 ± 0.05
51	1st	Room 2	A	Closet Door Lft	Wood	White	Intact	Negative	0.21 ± 0.37
52	1st	Room 2	A	Closet Casing	Wood	Gray	Intact	Negative	0.09 ± 0.19
53	1st	Room 2	A	Closet Door Rht	Wood	White	Intact	Negative	0.29 ± 0.52
54	1st	Room 2	A	Closet Jamb	Wood	White	Intact	Negative	0.05 ± 0.09

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
55	1st	Room 2	A	Closet Shelf	Wood	White	Intact	Negative	0.07 ± 0.25
56	1st	Room 2	A	Closet Cleat	Wood	White	Intact	Negative	0.02 ± 0.04
57	1st	Room 2	A	Closet Baseboard	Wood	White	Intact	Negative	0.02 ± 0.05
59	1st	Room 2	A	Closet Floor	Wood	White	Intact	Negative	0.01 ± 0.02
60	1st	Room 2	A	Closet Wall	Plaster	White	Intact	Negative	0.20 ± 0.35
61	1st	Room 2	D	Baseboard	Wood	Gray	Intact	Negative	0.15 ± 0.16
62	1st	Room 2	B	Radiator	Metal	Gray	Intact	Negative	0.01 ± 0.02
63	1st	Room 2	A	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
64	1st	Room 2	B	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
65	1st	Room 2	C	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
66	1st	Room 2	D	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
67	1st	Room 2	C	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
68	1st	Room 3	D	Window Sill	Wood	Gray	Intact	Negative	0.22 ± 0.38
69	1st	Room 3	D	Window Casing	Wood	Gray	Intact	Negative	0.21 ± 0.39
70	1st	Room 3	D	Window Casing	Wood	Gray	Intact	Negative	0.13 ± 0.21
71	1st	Room 3	A	Opening Jamb	Wood	Gray	Intact	Negative	0.10 ± 0.23
72	1st	Room 3	B	Opening Jamb	Wood	Gray	Intact	Negative	0.09 ± 0.20
73	1st	Room 3	B	Opening Threshold	Wood	White	Intact	Negative	0.00 ± 0.02
74	1st	Room 3	C	Opening Threshold	Wood	White	Intact	Negative	0.00 ± 0.02
75	1st	Room 3	C	Opening Casing	Wood	Gray	Intact	Negative	0.26 ± 0.60
76	1st	Room 3	B	Baseboard	Wood	Gray	Intact	Negative	0.09 ± 0.15
77	1st	Room 3	A	Radiator	Metal	Silver	Peeling	Negative	0.06 ± 0.28
78	1st	Room 3	A	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
79	1st	Room 3	B	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
80	1st	Room 3	C	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
81	1st	Room 3	D	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
82	1st	Room 3	B	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
83	1st	Room 3	B	Ceiling Trim	Wood	White	Intact	Negative	0.02 ± 0.06
84	1st	Room 2	C	Floor	Wood	Brown	Intact	Negative	0.00 ± 0.02
85	1st	Hall	A-B	Door	Wood	White	Intact	Negative	0.20 ± 0.39
86	1st	Hall	A-B	Door Jamb	Wood	Gray	Intact	Negative	0.24 ± 0.29
87	1st	Hall	B	Door	Wood	White	Intact	Negative	0.40 ± 0.60
88	1st	Hall	B	Door Casing	Wood	Gray	Intact	Negative	0.09 ± 0.19
89	1st	Hall	B	Door Threshold	Wood	White	Fair	Negative	0.01 ± 0.05
90	1st	Hall	C	Door	Wood	White	Intact	Negative	0.16 ± 0.17
91	1st	Hall	C	Door Jamb	Wood	Gray	Intact	Negative	0.11 ± 0.23
92	1st	Hall	C	Door Threshold	Wood	Gray	Intact	Negative	0.02 ± 0.06
93	1st	Hall	D	Opening Jamb Lft	Wood	Gray	Intact	Negative	0.12 ± 0.55
94	1st	Hall	D	Opening Threshold	Wood	White	Intact	Negative	0.03 ± 0.10
95	1st	Hall	B	Wall	Plaster	White	Intact	Positive	7.90 ± 4.30
96	1st	Hall	B	Wall	Plaster	White	Intact	Positive	9.60 ± 7.40
97	1st	Hall	C	Wall	Plaster	White	Intact	Positive	9.00 ± 7.30
98	1st	Hall	D	Wall	Plaster	White	Intact	Positive	9.10 ± 7.10
99	1st	Hall	A-B	Wall	Plaster	White	Intact	Positive	9.50 ± 7.20
100	1st	Hall	A	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
101	1st	Hall	B	Baseboard	Wood	Gray	Intact	Negative	0.12 ± 0.20
102	1st	Bath	B	Window Sill	Wood	White	Intact	Negative	0.00 ± 0.02
103	1st	Bath	B	Window Casing	Wood	White	Intact	Negative	0.00 ± 0.02
104	1st	Bath	B	Window Sash Int.	Wood	White	Poor	Negative	0.00 ± 0.02
105	1st	Bath	B	Window Well	Wood	White	Poor	Negative	0.00 ± 0.02
106	1st	Bath	D	Door	Wood	White	Fair	Negative	0.60 ± 0.40
107	1st	Bath	D	Door	Wood	White	Fair	Negative	0.08 ± 0.61

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
108	1st	Bath	D	Door Casing	Wood	White	Intact	Negative	0.30 ± 0.54
109	1st	Bath	C	Chair Rail	Wood	White	Intact	Negative	0.00 ± 0.02
110	1st	Bath	C	Radiator	Metal	Gray	Peding	Negative	0.01 ± 0.04
111	1st	Bath	C	Cabinet Door Upr	Plywood	White	Intact	Negative	0.00 ± 0.02
112	1st	Bath	C	Cabinet Door Upr	Plywood	White	Intact	Negative	0.00 ± 0.02
113	1st	Bath	C	Cabinet Frame	Wood	White	Intact	Negative	0.00 ± 0.02
114	1st	Bath	A	Wall - Upper	Drywall	White	Intact	Negative	0.00 ± 0.02
115	1st	Bath	B	Wall - Upper	Drywall	White	Intact	Negative	0.00 ± 0.02
116	1st	Bath	C	Wall - Upper	Drywall	White	Intact	Negative	0.00 ± 0.02
117	1st	Bath	D	Wall - Upper	Drywall	White	Intact	Negative	0.00 ± 0.02
118	1st	Bath	D	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
119	1st	Room 4	B	Window Sill	Wood	Gray	Intact	Negative	0.11 ± 0.19
120	1st	Room 4	B	Window Casing	Wood	Gray	Intact	Negative	0.13 ± 0.28
121	1st	Room 4	C	Window Sill	Wood	Gray	Intact	Negative	0.15 ± 0.10
122	1st	Room 4	C	Window Casing	Wood	Gray	Intact	Negative	0.17 ± 0.58
123	1st	Room 4	A	Door	Wood	White	Intact	Negative	0.01 ± 0.03
124	1st	Room 4	A	Door Casing	Wood	Gray	Intact	Negative	0.30 ± 0.61
125	1st	Room 4	A	Closet Door	Wood	White	Intact	Negative	0.16 ± 0.36
126	1st	Room 4	A	Closet Jamb	Wood	White	Intact	Negative	0.08 ± 0.15
127	1st	Room 4	A	Closet Shelf	Wood	White	Fair	Negative	0.06 ± 0.20
128	1st	Room 4	A	Closet Cleat	Wood	White	Fair	Negative	0.01 ± 0.05
129	1st	Room 4	A	Closet Baseboard	Wood	White	Fair	Negative	0.01 ± 0.05
130	1st	Room 4	A	Closet Floor	Wood	White	Fair	Negative	0.00 ± 0.02
131	1st	Room 4	A	Closet Wall	Plaster	White	Damaged	Negative	0.08 ± 0.07
132	1st	Room 4	A	Closet Threshold	Wood	White	Intact	Negative	0.07 ± 0.13
133	1st	Room 4	D	Closet Door	Wood	White	Intact	Negative	0.21 ± 0.70
134	1st	Room 4	D	Closet Casing	Wood	Gray	Intact	Negative	0.29 ± 0.54
135	1st	Room 4	D	Closet Shelf	Wood	White	Intact	Negative	0.07 ± 0.16
136	1st	Room 4	C	Baseboard	Wood	Gray	Intact	Negative	0.24 ± 0.42
137	1st	Room 4	A	Radiator	Metal	Gray	Intact	Negative	0.19 ± 0.20
138	1st	Room 4	A	Wall	Plaster	White	Intact	Negative	0.23 ± 0.13
140	1st	Room 4	B	Wall	Plaster	White	Intact	Negative	0.40 ± 0.20
141	1st	Room 4	C	Wall	Plaster	White	Intact	Negative	0.30 ± 0.17
143	1st	Room 4	D	Wall	Plaster	White	Intact	Negative	0.30 ± 0.19
144	1st	Room 4	A	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
145	1st	Room 4	A	Floor	Wood	Brown	Intact	Negative	0.00 ± 0.02
146	1st	Kitchen	D	Window Sill Lft	Wood	White	Poor	Negative	0.26 ± 0.25
148	1st	Kitchen	D	Window Casing	Wood	White	Intact	Null	1.00 ± 0.10
149	1st	Kitchen	D	Window Sill Rht	Wood	White	Intact	Null	1.00 ± 0.10
150	1st	Kitchen	D	Window Casing	Wood	White	Intact	Null	1.00 ± 0.10
151	1st	Kitchen	D	Window Casing	Wood	White	Intact	Positive	1.10 ± 0.10
152	1st	Kitchen	C	Door	Wood	White	Intact	Negative	0.40 ± 0.50
154	1st	Kitchen	C	Door Casing	Wood	White	Intact	Negative	0.30 ± 0.19
155	1st	Kitchen	A	Opening Jamb	Wood	Gray	Intact	Negative	0.40 ± 0.30
156	1st	Kitchen	B	Opening Casing	Wood	Gray	Intact	Negative	0.29 ± 0.60
157	1st	Kitchen	B	Chair Rail	Wood	White	Intact	Null	1.00 ± 0.20
158	1st	Kitchen	B	Chair Rail	Wood	White	Intact	Null	1.10 ± 0.30
160	1st	Kitchen	A	Wall - Lower	Wood	White	Intact	Negative	0.60 ± 0.20
161	1st	Kitchen	B	Wall - Lower	Wood	White	Intact	Negative	0.40 ± 0.20
162	1st	Kitchen	C	Wall - Lower	Wood	White	Intact	Negative	0.60 ± 0.20
163	1st	Kitchen	D	Wall - Lower	Wood	White	Intact	Negative	0.30 ± 0.35
164	1st	Kitchen	C	Chair Rail	Wood	White	Intact	Positive	1.40 ± 0.40

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
165	1st	Kitchen	A	Wall - Upper	Plaster	Wallpaper	Intact	Positive	13.00 ± 8.60
166	1st	Kitchen	B	Wall - Upper	Plaster	Wallpaper	Intact	Negative	0.08 ± 0.12
167	1st	Kitchen	B	Wall - Upper	Plaster	Wallpaper	Intact	Positive	4.10 ± 2.40
168	1st	Kitchen	C	Wall - Upper	Plaster	Wallpaper	Intact	Positive	12.20 ± 8.20
169	1st	Kitchen	D	Wall - Upper	Plaster	Wallpaper	Intact	Positive	3.40 ± 1.90
170	1st	Kitchen	A	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
171	1st	Kitchen	B	Ceiling Trim	Wood	White	Intact	Negative	0.13 ± 0.30
172	1st	Kitchen	B	Cabinet Door Lwr	Wood	White	Intact	Negative	0.60 ± 0.20
173	1st	Kitchen	B	Cabinet Frame	Wood	White	Intact	Negative	0.60 ± 0.20
174	1st	Kitchen	B	Cabinet Wall	Wood	White	Intact	Negative	0.30 ± 0.27
175	1st	Kitchen	B	Cabinet Door Uptr	Wood	White	Intact	Positive	1.10 ± 0.10
176	1st	Kitchen	B	Cabinet Body	Wood	White	Intact	Positive	1.30 ± 0.20
177	1st	Kitchen	B	Cabinet Shelf	Wood	Blue	Intact	Negative	0.80 ± 0.10
178	1st	Kitchen	C	Cabine Frame	Wood	Varnish	Intact	Negative	0.02 ± 0.07
179	1st	Kitchen	B	Radiator	Wood	Gray	Poor	Negative	0.50 ± 0.50
180	1st	Front Stairs	A	Door	Wood	White	Intact	Negative	0.00 ± 0.02
181	1st	Front Stairs	A	Door Jamb	Wood	White	Intact	Negative	0.05 ± 0.09
182	1st	Front Stairs	A	Door Casing	Wood	White	Poor	Negative	0.09 ± 0.24
183	1st	Front Stairs	B	Window Sill	Wood	Gray	Intact	Negative	0.24 ± 0.40
184	1st	Front Stairs	B	Window Casing	Wood	Gray	Intact	Negative	0.04 ± 0.08
185	1st	Front Stairs	D	Baseboard	Wood	Gray	Intact	Negative	0.16 ± 0.22
186	1st	Front Stairs	D	Floor	Wood	Gray	Intact	Negative	0.05 ± 0.09
187	1st	Front Stairs	C	Stair Stringer	Wood	Gray	Intact	Negative	0.07 ± 0.16
188	1st	Front Stairs	C	Stair Tread	Wood	Gray	Poor	Negative	0.03 ± 0.08
189	1st	Front Stairs	A	Stair Tread	Wood	Gray	Intact	Negative	0.02 ± 0.06
190	1st	Front Stairs	D	Stair Riser	Wood	Gray	Intact	Negative	0.02 ± 0.05
191	1st	Front Stairs	Cr	Corner Trim	Wood	Gray	Intact	Negative	0.16 ± 0.34
192	1st	Front Stairs	A	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
193	1st	Front Stairs	B	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
194	2nd	Front Stairs	C	Wall	Drywall	White	Intact	Negative	0.01 ± 0.03
195	1st	Front Stairs	D	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
196	2nd	Front Stairs	C	Stair Railing	Wood	Gray	Poor	Negative	0.00 ± 0.02
197	2nd	Front Stairs	A	Door	Wood	White	Intact	Negative	0.15 ± 0.22
198	2nd	Front Stairs	A	Door Jamb	Wood	White	Fair	Negative	0.10 ± 0.13
199	2nd	Front Stairs	A	Door Casing	Wood	Gray	Fair	Negative	0.16 ± 0.29
200	2nd	Front Stairs	C	Door	Wood	White	Intact	Negative	0.24 ± 0.39
201	2nd	Front Stairs	C	Door Casing	Wood	Gray	Intact	Negative	0.06 ± 0.16
203	2nd	Front Stairs	D	Door	Wood	White	Fair	Negative	0.07 ± 0.16
204	2nd	Front Stairs	D	Door Jamb	Wood	White	Fair	Negative	0.00 ± 0.02
205	2nd	Front Stairs	D	Door Threshold	Wood	Varnish	Intact	Negative	0.00 ± 0.02
206	2nd	Front Stairs	A	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.02
207	2nd	Front Stairs	A	Baseboard	Wood	Gray	Intact	Negative	0.06 ± 0.08
208	2nd	Front Stairs	A	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
209	2nd	Front Stairs	A	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
210	2nd	Front Stairs	C	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
211	2nd	Front Stairs	D	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
212	2nd	Front Stairs	A	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
213	2nd	Front Stairs	B	Stair Stringer	Wood	Gray	Intact	Negative	0.07 ± 0.13
214	2nd	Front Stairs	C	Stair Tread	Wood	Gray	Fair	Negative	0.15 ± 0.22
215	2nd	Front Stairs	D	Stair Riser	Wood	Gray	Intact	Negative	0.18 ± 0.27
216	2nd	Front Stairs	C	Stair Railing	Wood	White	Fair	Negative	0.01 ± 0.04
217	3rd	Front Stairs	D	Door	Wood	White	Fair	Negative	0.10 ± 0.16

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
218	3rd	Front Stairs	D	Door Casing	Wood	White	Intact	Negative	0.12 ± 0.20
219	3rd	Front Stairs	C	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
220	3rd	Front Stairs	A	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
221	3rd	Front Stairs	A	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
222	2nd	Room 1	A	Window Sill Rht	Wood	White	Intact	Positive	7.70 ± 4.00
223	2nd	Room 1	A	Window Casing	Wood	White	Intact	Positive	8.20 ± 6.40
224	2nd	Room 1	A	Window Sash Inf.	Wood	White	Intact	Positive	9.90 ± 8.30
225	2nd	Room 1	A	Window Sill Ctr	Wood	White	Intact	Positive	8.20 ± 6.20
226	2nd	Room 1	A	Window Casing	Wood	White	Intact	Positive	8.10 ± 6.10
227	2nd	Room 1	A	Window Sill Lft	Wood	White	Intact	Positive	7.40 ± 4.10
228	2nd	Room 1	A	Window Casing	Wood	White	Intact	Positive	9.70 ± 7.00
229	2nd	Room 1	B	Door	Wood	White	Intact	Positive	6.90 ± 5.80
230	2nd	Room 1	B	Door Jamb	Wood	White	Intact	Positive	10.30 ± 7.20
231	2nd	Room 1	B	Door Casing	Wood	White	Intact	Positive	7.30 ± 4.10
232	2nd	Room 1	C	Opening Casing	Wood	White	Intact	Positive	7.20 ± 4.10
233	2nd	Room 1	C	Wall - Panel	Wood	White	Intact	Positive	8.70 ± 6.50
234	2nd	Room 1	A	Baseboard	Wood	White	Intact	Positive	7.60 ± 3.70
235	2nd	Room 1	B	Radiator	Metal	White	Intact	Negative	0.13 ± 0.42
236	2nd	Room 1	A	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
237	2nd	Room 1	B	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
238	2nd	Room 1	C	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
240	2nd	Room 1	D	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
241	2nd	Room 1	C	Ceiling	Plaster	White	Intact	Negative	0.03 ± 0.10
242	2nd	Room 2	B	Window Sill	Drywall	Gray	Intact	Positive	21.10 ± 4.90
243	2nd	Room 2	B	Window Casing	Wood	Gray	Intact	Positive	14.10 ± 5.20
244	2nd	Room 2	A	Door	Wood	White	Intact	Positive	6.20 ± 3.50
245	2nd	Room 2	A	Door Casing	Wood	Gray	Intact	Positive	9.10 ± 6.60
246	2nd	Room 2	C-D	Door	Wood	White	Intact	Positive	15.00 ± 10.50
247	2nd	Room 2	C-D	Door Jamb	Wood	White	Intact	Positive	9.90 ± 6.90
248	2nd	Room 2	C-D	Door Casing	Wood	Gray	Intact	Positive	10.60 ± 7.40
249	2nd	Room 2	A	Closet Door	Wood	White	Intact	Positive	13.10 ± 5.50
250	2nd	Room 2	A	Closet Casing	Wood	Gray	Intact	Positive	13.00 ± 9.90
251	2nd	Room 2	A	Closet Cleat	Wood	White	Intact	Negative	0.00 ± 0.02
252	2nd	Room 2	A	Closet Wall B	Plaster	White	Intact	Null	0.00 ± 0.02
253	2nd	Room 2	A	Closet Wall B	Plaster	White	Intact	Negative	0.00 ± 0.02
254	2nd	Room 2	A	Closet Wall D	Drywall	White	Intact	Negative	0.00 ± 0.02
255	2nd	Room 2	A	Baseboard	Wood	Gray	Intact	Negative	0.01 ± 0.03
256	2nd	Room 2	C	Baseboard	Wood	Gray	Intact	Positive	10.90 ± 3.40
257	2nd	Room 2	C	Radiator	Metal	Silver	Poor	Negative	0.10 ± 0.23
258	2nd	Room 2	C	Radiator	Metal	Silver	Poor	Negative	0.06 ± 0.15
259	2nd	Room 2	A	Wall Lft	Drywall	White	Intact	Negative	0.00 ± 0.02
260	2nd	Room 2	B	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
261	2nd	Room 2	C	Wall	Plaster	White	Intact	Negative	0.01 ± 0.04
262	2nd	Room 2	D	Wall	Plaster	White	Intact	Negative	0.01 ± 0.03
263	2nd	Room 2	C	Ceiling	Plaster	White	Intact	Negative	0.01 ± 0.03
264	2nd	Room 3	D	Window Sill Rht	Wood	White	Intact	Positive	2.00 ± 0.80
265	2nd	Room 3	D	Window Casing	Wood	White	Intact	Positive	9.50 ± 4.70
266	2nd	Room 3	D	Window Sill Lft	Wood	White	Intact	Negative	0.11 ± 0.20
267	2nd	Room 3	A	Opening Casing	Wood	White	Intact	Positive	9.40 ± 7.10
268	2nd	Room 3	B	Opening Casing	Wood	White	Intact	Negative	0.18 ± 0.34
269	2nd	Room 3	B	Opening Threshold	Wood	White	Poor	Negative	0.00 ± 0.02
270	2nd	Room 3	C	Baseboard	Wood	White	Intact	Positive	9.80 ± 7.00

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
271	2nd	Room 3	A	Radiator	Metal	White	Intact	Negative	0.08 ± 0.25
272	2nd	Room 3	A	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
273	2nd	Room 3	B	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
274	2nd	Room 3	C	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
275	2nd	Room 3	D	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
276	2nd	Room 3	B	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
277	2nd	Room 3	C	Floor	Floor	Varnish	Intact	Negative	0.00 ± 0.02
278	2nd	Hall	A-B	Door	Wood	White	Intact	Negative	0.14 ± 0.25
279	2nd	Hall	A-B	Door Casing	Wood	White	Intact	Negative	0.07 ± 0.24
280	2nd	Hall	A-B	Door Threshold	Wood	White	Fair	Negative	0.04 ± 0.15
281	2nd	Hall	B	Door	Wood	White	Intact	Negative	0.01 ± 0.05
282	2nd	Hall	B	Door Jamb	Wood	White	Intact	Negative	0.09 ± 0.21
283	2nd	Hall	C	Door	Wood	White	Intact	Negative	0.05 ± 0.15
285	2nd	Hall	C	Door Casing	Wood	White	Intact	Negative	0.01 ± 0.04
287	2nd	Hall	D	Opening Casing Lft	Wood	White	Intact	Negative	0.06 ± 0.15
288	2nd	Hall	D	Opening Jamb Rht	Wood	White	Poor	Negative	0.01 ± 0.03
289	2nd	Hall	B	Baseboard	Wood	White	Intact	Negative	0.07 ± 0.10
290	2nd	Hall	A-B	Wall	Plaster	White	Intact	Positive	16.00 ± 11.30
291	2nd	Hall	B	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
292	2nd	Hall	B	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
293	2nd	Hall	C	Wall	Plaster	White	Intact	Positive	18.10 ± 12.20
294	2nd	Hall	D	Wall	Plaster	White	Intact	Positive	12.30 ± 8.50
295	2nd	Hall	C	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
296	2nd	Bath	B	Window Sill	Wood	Beige	Intact	Negative	0.00 ± 0.02
297	2nd	Bath	B	Window Casing	Wood	Beige	Intact	Negative	0.00 ± 0.02
298	2nd	Bath	B	Window Sash Int.	Wood	Beige	Intact	Negative	0.00 ± 0.02
300	2nd	Bath	D	Door	Wood	White	Intact	Negative	0.16 ± 0.23
301	2nd	Bath	D	Door Jamb	Wood	White	Intact	Negative	0.08 ± 0.06
303	2nd	Bath	D	Door Casing	Wood	Beige	Intact	Negative	0.16 ± 0.15
304	2nd	Bath	B	Baseboard	Wood	Beige	Intact	Negative	0.00 ± 0.02
305	2nd	Bath	C	Cabinet Door Lwr	Wood	White	Fair	Negative	0.00 ± 0.02
306	2nd	Bath	C	Cabinet Door Up	Plywood	Gray	Intact	Negative	0.00 ± 0.02
307	2nd	Bath	C	Cabinet Frame	Wood	Gray	Intact	Negative	0.00 ± 0.02
308	2nd	Bath	A	Wall	Plaster	Beige	Intact	Positive	2.30 ± 1.00
309	2nd	Bath	A	Wall	Plaster	Beige	Intact	Negative	0.01 ± 0.02
310	2nd	Bath	B	Wall	Drywall	Beige	Intact	Negative	0.00 ± 0.02
312	2nd	Bath	C	Wall Rht	Drywall	Beige	Intact	Negative	0.00 ± 0.02
314	2nd	Bath	D	Wall	Drywall	Beige	Intact	Null	0.00 ± 0.02
315	2nd	Bath	D	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
316	2nd	Bath	C	Radiator	Metal	White	Poor	Negative	0.16 ± 0.32
317	2nd	Room 4	B	Window Sill	Wood	Gold	Fair	Positive	9.10 ± 6.90
318	2nd	Room 4	B	Window Casing	Wood	Gold	Intact	Positive	12.30 ± 8.10
319	2nd	Room 4	C	Window Sill	Wood	Gold	Intact	Positive	7.80 ± 4.20
320	2nd	Room 4	C	Window Casing	Wood	Gold	Intact	Positive	12.50 ± 8.10
321	2nd	Room 4	A	Door	Wood	Bone	Fair	Positive	12.70 ± 11.60
322	2nd	Room 4	A	Door Casing	Wood	Gold	Poor	Positive	12.30 ± 3.20
323	2nd	Room 4	A	Closet Casing	Wood	Gold	Intact	Positive	14.10 ± 12.10
325	2nd	Room 4	A	Closet Shelf	Wood	Bone	Intact	Negative	0.01 ± 0.05
326	2nd	Room 4	A	Closet Clet	Wood	Bone	Intact	Negative	0.02 ± 0.07
327	2nd	Room 4	A	Closet Wall	Plaster	Bone	Intact	Negative	0.01 ± 0.02
328	2nd	Room 4	D	Closet Door	Wood	White	Intact	Positive	13.10 ± 3.80
329	2nd	Room 4	D	Closet Casing	Wood	Gold	Intact	Positive	13.30 ± 9.60

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
330	2nd	Room 4	B	Baseboard	Wood	Gold	Intact	Positive	8.90 ± 7.40
331	2nd	Room 4	B	Radiator	Metal	White	Intact	Negative	0.01 ± 0.07
332	2nd	Room 4	A	Wall	Plaster	Beige	Intact	Negative	0.00 ± 0.02
333	2nd	Room 4	B	Wall	Plaster	Beige	Intact	Negative	0.00 ± 0.02
334	2nd	Room 4	C	Wall	Plaster	Beige	Intact	Negative	0.00 ± 0.02
335	2nd	Room 4	D	Wall	Drywall	Beige	Intact	Negative	0.00 ± 0.02
336	2nd	Room 4	D	Baseboard	Wood	Gold	Intact	Negative	0.00 ± 0.02
338	2nd	Room 4	A	Ceiling	Plaster	White	Intact	Negative	0.01 ± 0.05
339	2nd	Room 4	A	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.02
340	2nd	Kitchen	D	Window Sill Rht	Wood	White	Intact	Negative	0.00 ± 0.02
341	2nd	Kitchen	D	Window Casing	Wood	White	Intact	Negative	0.01 ± 0.06
342	2nd	Kitchen	D	Window Sill Lft	Wood	White	Intact	Negative	0.01 ± 0.05
343	2nd	Kitchen	D	Window Casing	Wood	White	Intact	Negative	0.00 ± 0.02
344	2nd	Kitchen	B	Opening Casing	Wood	White	Intact	Null	1.20 ± 0.60
345	2nd	Kitchen	B	Opening Casing	Wood	White	Intact	Positive	1.50 ± 0.50
346	2nd	Kitchen	D	Door	Wood	White	Intact	Negative	0.00 ± 0.02
347	2nd	Kitchen	D	Door Casing	Wood	White	Intact	Negative	0.00 ± 0.02
348	2nd	Kitchen	A	Closet Door	Wood	White	Intact	Negative	0.00 ± 0.02
349	2nd	Kitchen	A	Closet Casing	Wood	White	Intact	Negative	0.00 ± 0.02
350	2nd	Kitchen	A	Closet Shelf	Wood	Bone	Fair	Negative	0.00 ± 0.02
351	2nd	Kitchen	A	Closet Cleat	Wood	Bone	Intact	Negative	0.00 ± 0.02
352	2nd	Kitchen	A	Closet Wall	Drywall	Bone	Intact	Negative	0.00 ± 0.02
354	2nd	Kitchen	D	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
355	2nd	Kitchen	B	Radiator	Metal	White	Intact	Negative	0.01 ± 0.02
356	2nd	Kitchen	A	Cabinet Door Lwr	Wood	White	Intact	Negative	0.00 ± 0.04
357	2nd	Kitchen	A	Cabinet Frame	Wood	White	Intact	Negative	0.00 ± 0.02
358	2nd	Kitchen	C	Cabinet Frame Up	Wood	White	Intact	Negative	0.00 ± 0.02
359	2nd	Kitchen	A	Wall	Drywall	Wallpaper	Intact	Negative	0.00 ± 0.02
360	2nd	Kitchen	B	Wall	Drywall	Wallpaper	Intact	Negative	0.00 ± 0.02
361	2nd	Kitchen	C	Wall Lft	Plaster	Wallpaper	Intact	Negative	0.03 ± 0.08
362	2nd	Kitchen	D	Wall	Drywall	Wallpaper	Intact	Negative	0.00 ± 0.02
363	2nd	Kitchen	B	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
364	3rd	Room 5	A	Window Sill Rht	Wood	White	Poor	Negative	0.30 ± 0.45
365	3rd	Room 5	A	Window Casing	Wood	White	Intact	Negative	0.01 ± 0.03
367	3rd	Room 5	A	Window Sill Lft	Wood	White	Intact	Negative	0.13 ± 0.26
368	3rd	Room 5	A	Window Casing	Wood	White	Intact	Negative	0.04 ± 0.13
369	3rd	Room 5	B	Door	Wood	White	Intact	Negative	0.01 ± 0.04
370	3rd	Room 5	B	Door Casing	Wood	White	Intact	Negative	0.00 ± 0.02
371	3rd	Room 5	B	Closet Door	Wood	White	Intact	Negative	0.01 ± 0.02
372	3rd	Room 5	B	Closet Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
373	3rd	Room 5	B	Closet Shelf	Wood	Yellow	Intact	Negative	0.00 ± 0.02
374	3rd	Room 5	B	Closet Cleat	Wood	Yellow	Intact	Negative	0.00 ± 0.03
375	3rd	Room 5	B	Closet Wall	Plaster	Wallpaper	Intact	Negative	0.00 ± 0.02
376	3rd	Room 5	C	Door Rht	Wood	White	Intact	Negative	0.01 ± 0.03
377	3rd	Room 5	C	Door Casing	Wood	White	Intact	Negative	0.01 ± 0.05
378	3rd	Room 5	C	Door Lft	Wood	White	Damaged	Negative	0.00 ± 0.02
379	3rd	Room 5	C	Door Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
380	3rd	Room 5	B	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
381	3rd	Room 5	C	Radiator	Metal	Silver	Intact	Negative	0.01 ± 0.06
382	3rd	Room 5	B	Corner Trim	Wood	White	Poor	Negative	0.03 ± 0.13
383	3rd	Room 5	A	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
384	3rd	Room 5	B	Wall Rht	Drywall	White	Intact	Negative	0.00 ± 0.02

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
385	3rd	Room 5	C	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
386	3rd	Room 5	D	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
387	3rd	Room 5	D	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
388	3rd	Room 5	D	Baseboard	Wood	White	Intact	Negative	0.08 ± 0.20
389	3rd	Hall 3	A	Door	Wood	White	Intact	Negative	0.00 ± 0.02
390	3rd	Hall 3	A	Door Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
391	3rd	Hall 3	D	Door	Wood	White	Intact	Negative	0.00 ± 0.02
392	3rd	Hall 3	D	Door Casing	Wood	White	Intact	Negative	0.00 ± 0.02
393	3rd	Hall 3	C	Opening Casing	Wood	White	Intact	Negative	0.00 ± 0.02
394	3rd	Hall 3	B	Baseboard	Wood	White	Poor	Negative	0.00 ± 0.02
395	3rd	Hall 3	A	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
396	3rd	Hall 3	B	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
397	3rd	Hall 3	C	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
399	3rd	Hall 3	D	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
400	3rd	Hall 3	B	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
402	3rd	Room 6	A	Door	Wood	Pink	Intact	Negative	0.03 ± 0.07
403	3rd	Room 6	A	Door Jamb	Wood	Pink	Intact	Negative	0.01 ± 0.04
404	3rd	Room 6	B	Door	Wood	White	Intact	Negative	0.00 ± 0.02
405	3rd	Room 6	B	Door Casing	Wood	White	Intact	Negative	0.00 ± 0.03
406	3rd	Room 6	C	Door	Wood	White	Intact	Negative	0.01 ± 0.03
407	3rd	Room 6	C	Door Jamb	Wood	White	Poor	Negative	0.04 ± 0.14
408	3rd	Room 6	D	Baseboard	Wood	White	Intact	Negative	0.03 ± 0.15
409	3rd	Room 6	A	Radiator	Metal	Silver	Poor	Negative	0.10 ± 0.14
410	3rd	Room 6	A	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
411	3rd	Room 6	B	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
412	3rd	Room 6	C	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
413	3rd	Room 6	D	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
414	3rd	Room 6	D	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
415	3rd	Room 6	Cr	Chimney	Drywall	White	Intact	Negative	0.00 ± 0.02
416	3rd	Room 7	C	Window Sill Lft	Wood	White	Fair	Negative	0.10 ± 0.20
417	3rd	Room 7	C	Window Casing	Wood	White	Intact	Negative	0.01 ± 0.04
418	3rd	Room 7	C	Window Sill Rht	Wood	White	Intact	Negative	0.02 ± 0.06
419	3rd	Room 7	C	Window Casing	Wood	White	Intact	Negative	0.13 ± 0.32
420	3rd	Room 7	D	Door	Wood	White	Fair	Negative	0.04 ± 0.13
421	3rd	Room 7	D	Door Casing	Wood	White	Intact	Negative	0.01 ± 0.04
422	3rd	Room 7	B	Door	Plywood	White	Intact	Negative	0.00 ± 0.02
423	3rd	Room 7	B	Door Jamb	Wood	White	Intact	Negative	0.01 ± 0.05
424	3rd	Room 7	B	Closet Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
425	3rd	Room 7	B	Closet Cleat	Wood	White	Intact	Negative	0.00 ± 0.02
426	3rd	Room 7	B	Closet Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
427	3rd	Room 7	A	Radiator	Metal	White	Intact	Negative	0.00 ± 0.02
428	3rd	Room 7	D	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
429	3rd	Room 7	C	Baseboard	Wood	White	Intact	Negative	0.03 ± 0.08
430	3rd	Room 7	A	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
431	3rd	Room 7	B	Wall	Drywall	White	Poor	Negative	0.00 ± 0.02
432	3rd	Room 7	C	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
433	3rd	Room 7	D	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
434	3rd	Room 7	D	Ceiling	Plaster	White	Peeling	Negative	0.00 ± 0.02
435	3rd	Bath 2	A	Opening Casing	Wood	White	Intact	Negative	0.00 ± 0.02
436	3rd	Bath 2	D	Door	Plywood	White	Intact	Negative	0.00 ± 0.02
437	3rd	Bath 2	D	Door Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
438	3rd	Bath 2	B	Corner Trim	Wood	White	Intact	Negative	0.00 ± 0.02

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
439	3rd	Bath 2	A	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
440	3rd	Bath 2	B	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
441	3rd	Bath 2	C	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
442	3rd	Bath 2	B	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
443	3rd	Rear Stairs 2	A	Door	Wood	White	Intact	Negative	0.01 ± 0.03
444	3rd	Rear Stairs 2	A	Door Jamb	Wood	White	Intact	Negative	0.01 ± 0.03
445	3rd	Rear Stairs 2	B	Door	Wood	Gold	Intact	Negative	0.06 ± 0.16
446	3rd	Rear Stairs 2	B	Door Casing	Wood	White	Intact	Negative	0.03 ± 0.09
447	3rd	Rear Stairs 2	A	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
448	3rd	Rear Stairs 2	D	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
449	3rd	Rear Stairs 2	B	Wall	Drywall	White	Intact	Negative	0.00 ± 0.02
450	3rd	Rear Stairs 2	D	Ceiling	Drywall	White	Intact	Negative	0.01 ± 0.03
451	2nd	Rear Stairs 2	A	Stair Tread	Wood	White	Intact	Negative	0.00 ± 0.02
452	2nd	Rear Stairs 2	A	Stair Riser	Wood	White	Intact	Negative	0.00 ± 0.02
453	2nd	Rear Stairs 2	B	Stair Tread	Wood	White	Intact	Negative	0.01 ± 0.03
454	2nd	Rear Stairs 2	B	Landing Floor	Wood	Gold	Intact	Negative	0.01 ± 0.03
455	2nd	Rear Stairs 2	D	Baseboard	Wood	Gold	Intact	Negative	0.17 ± 0.46
456	2nd	Rear Stairs 2	C	Stair Stringer	Wood	Gold	Intact	Negative	0.06 ± 0.11
457	2nd	Rear Stairs 2	C	Stair Tread	Wood	Gold	Intact	Negative	0.09 ± 0.15
458	2nd	Rear Stairs 2	D	Stair Riser	Wood	Gold	Intact	Negative	0.14 ± 0.17
459	2nd	Rear Stairs 2	C	Window Sill	Wood	Gold	Intact	Negative	0.24 ± 0.39
460	2nd	Rear Stairs 2	C	Window Casing	Wood	White	Intact	Negative	0.03 ± 0.07
461	2nd	Rear Stairs 2	C	Wall	Plaster	White	Intact	Negative	0.00 ± 0.02
462	2nd	Rear Stairs 2	B	Wall	Plaster	Wallpaper	Damaged	Negative	0.01 ± 0.02
463				Calibration- Surface			1.53mg/cm ²	Positive	1.60 ± 0.30
464				Calibration- Buried			1.04mg/cm ²	Positive	1.00 ± 0.10
465				Calibration- Buried			1.04mg/cm ²	Positive	1.10 ± 0.10
466				Calibration- Buried			1.04mg/cm ²	Positive	1.10 ± 0.10
467				Calibration- Buried			0.01mg/cm ²	Negative	0.00 ± 0.02
468	2nd	Pantry	D	Window Sill	Wood	Beige	Fair	Negative	0.23 ± 0.22
469	2nd	Pantry	D	Window Sill	Wood	Beige	Fair	Negative	0.10 ± 0.12
470	2nd	Pantry	D	Window Casing	Wood	Beige	Intact	Negative	0.02 ± 0.05
471	2nd	Pantry	D	Window Sash Int.	Wood	Beige	Poor	Positive	10.10 ± 8.20
472	2nd	Pantry	B	Door	Wood	Beige	Intact	Negative	0.00 ± 0.02
473	2nd	Pantry	B	Door Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
474	2nd	Pantry	B	Door Casing	Wood	Beige	Intact	Negative	0.00 ± 0.02
475	2nd	Pantry	C	Door	Wood	Beige	Intact	Negative	0.01 ± 0.04
476	2nd	Pantry	C	Door Casing	Wood	Beige	Intact	Negative	0.02 ± 0.07
477	2nd	Pantry	C	Door Jamb	Wood	Bone	Poor	Negative	0.03 ± 0.05
478	2nd	Pantry	A	Baseboard	Wood	Bone	Intact	Negative	0.13 ± 0.20
479	2nd	Pantry	A	Shelf	Wood	Beige	Intact	Negative	0.00 ± 0.02
480	2nd	Pantry	A	Wall	Plaster	Beige	Intact	Negative	0.02 ± 0.05
482	2nd	Pantry	A	Wall	Plaster	Wallpaper	Intact	Negative	0.03 ± 0.02
483	2nd	Pantry	B	Wall	Plaster	Wallpaper	Intact	Negative	0.02 ± 0.05
484	2nd	Pantry	C	Wall	Plaster	Beige	Damaged	Negative	0.04 ± 0.10
485	2nd	Pantry	D	Wall	Plaster	Beige	Intact	Negative	0.02 ± 0.02
486	2nd	Pantry	B	Ceiling	Plaster	Beige	Poor	Negative	0.03 ± 0.07
487	2nd	Pantry	B	Floor	Wood	Beige	Intact	Negative	0.05 ± 0.08
488	2nd	Rear Stairs	A	Door	Wood	Gold	Fair	Negative	0.03 ± 0.05
489	2nd	Rear Stairs	A	Door Casing	Wood	Gold	Intact	Negative	0.09 ± 0.13
490	2nd	Rear Stairs	A	Wall	Plaster	White	Intact	Negative	0.01 ± 0.02
491	2nd	Rear Stairs	D	Wall	Plaster	White	Intact	Negative	0.02 ± 0.03

Index	FL.	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
492	2nd	Rear Stairs	B	Ceiling	Plaster	White	Intact	Negative	0.04 ± 0.07
493	1st	Rear Stairs	C	Wall	Plaster	White	Intact	Negative	0.07 ± 0.08
494	1st	Rear Stairs	C	Stair Stringer	Wood	White	Intact	Negative	0.03 ± 0.05
495	1st	Rear Stairs	C	Stair Tread	Wood	Gold	Poor	Negative	0.07 ± 0.12
496	1st	Rear Stairs	D	Stair Riser	Wood	Gold	Intact	Negative	0.12 ± 0.16
497	1st	Rear Stairs	D	Stair Railing	Wood	Brown	Intact	Negative	0.02 ± 0.04
498	1st	Rear Stairs	C	Stair Tread	Wood	White	Fair	Negative	0.14 ± 0.15
499	1st	Rear Stairs	C	Window Sill	Wood	White	Fair	Negative	0.21 ± 0.26
500	1st	Rear Stairs	C	Window Casing	Wood	White	Fair	Negative	0.08 ± 0.13
501	1st	Rear Stairs	C	Window Sash Int.	Wood	White	Fair	Positive	12.20 ± 8.70
502	1st	Rear Stairs	B	Bookcase Shelf	Wood	White	Intact	Negative	0.00 ± 0.02
503	1st	Rear Stairs	Cr	Corner Trim	Wood	White	Intact	Negative	0.16 ± 0.22
504	1st	Rear Stairs	A	Door	Wood	White	Intact	Negative	0.08 ± 0.21
505	1st	Rear Stairs	A	Door Jamb	Wood	White	Peeling	Negative	0.05 ± 0.08
506	1st	Rear Stairs	B	Shelf	Wood	White	Intact	Negative	0.00 ± 0.02
507	1st	Rear Stairs	B	Pipe	Metal	Silver	Fair	Negative	0.00 ± 0.02
508	1st	Rear Stairs	B	Cabinet Door Lft	Wood	White	Intact	Negative	0.01 ± 0.05
509	1st	Rear Stairs	B	Cabinet Frame	Wood	White	Intact	Negative	0.01 ± 0.03
510	1st	Rear Stairs	B	Cabinet Shelf	Wood	Brown	Intact	Negative	0.01 ± 0.03
511	1st	Rear Stairs	A	Shelf	Wood	White	Intact	Negative	0.00 ± 0.02
512	1st	Rear Stairs	A	Baseboard	Wood	White	Poor	Negative	0.09 ± 0.11
513	1st	Rear Stairs	A	Stair Tread Lwr	Wood	White	Poor	Negative	0.18 ± 0.20
514	1st	Rear Stairs	A	Stair Tread Lwr	Wood	White	Poor	Negative	0.19 ± 0.16
515	1st	Rear Stairs	C	Door	Wood	White	Intact	Negative	0.05 ± 0.11
516	1st	Rear Stairs	C	Door Jamb	Wood	White	Intact	Negative	0.05 ± 0.09
517	1st	Rear Stairs	D	Door	Wood	White	Intact	Negative	0.09 ± 0.16
518	1st	Rear Stairs	D	Door Jamb	Wood	Unpainted	Intact	Negative	0.00 ± 0.03
519	1st	Rear Stairs	D	Door Casing	Wood	White	Intact	Negative	0.05 ± 0.09
520	1st	Rear Stairs	A	Wall	Plaster	White	Damaged	Negative	0.04 ± 0.07
521	1st	Rear Stairs	B	Wall	Plaster	White	Fair	Negative	0.02 ± 0.04
522	1st	Rear Stairs	C	Wall	Plaster	White	Intact	Negative	0.01 ± 0.03
523	1st	Rear Stairs	C	Ceiling	Plaster	White	Peeling	Negative	0.01 ± 0.02
524	1st	Base Stairs	A	Door	Wood	Brown	Intact	Negative	0.00 ± 0.02
525	1st	Base Stairs	A	Door Casing	Wood	White	Intact	Negative	0.01 ± 0.02
526	1st	Base Stairs	A	Wall	Plaster	White	Intact	Negative	0.02 ± 0.06
527	1st	Base Stairs	C	Wall	Plaster	White	Intact	Null	0.09 ± 0.13
528	1st	Base Stairs	C	Wall	Plaster	White	Intact	Negative	0.01 ± 0.02
529	1st	Base Stairs	D	Wall	Plaster	White	Intact	Negative	0.03 ± 0.04
530	1st	Base Stairs	B	Ceiling	Plaster	White	Intact	Negative	0.01 ± 0.03
531	1st	Base Stairs	C	Baseboard	Wood	White	Fair	Negative	0.00 ± 0.02
532	Base	Base Stairs	A	Stair Tread	Wood	Off-White	Poor	Negative	0.12 ± 0.11
533	Base	Base Stairs	A	Stair Tread	Wood	Off-White	Poor	Negative	0.24 ± 0.20
534	Base	Base Stairs	A	Stair Post	Wood	Off-White	Poor	Negative	0.03 ± 0.08
535	Base	Base Stairs	C	Cell Window Sash	Wood	Black	Intact	Positive	4.30 ± 2.10
536	1st	Base Stairs	C	Floor	Wood	Off-White	Poor	Negative	0.40 ± 0.30
537	2nd	Front Porch	C	Door	Wood	White	Intact	Negative	0.50 ± 0.30
538	2nd	Front Porch	C	Door	Wood	White	Intact	Negative	0.60 ± 0.40
539	2nd	Front Porch	C	Door Jamb	Wood	White	Intact	Positive	22.20 ± 13.20
540	2nd	Front Porch	C	Door Threshold	Wood	Gray	Peeling	Positive	5.00 ± 2.80
541	2nd	Front Porch	C	Door Kick Plate	Wood	Gray	Peeling	Positive	23.40 ± 16.70
542	2nd	Front Porch	C	Window Sash Ext.	Wood	Black	Intact	Positive	3.70 ± 2.10
543	2nd	Front Porch	C	Porch Column	Wood	White	Damaged	Negative	0.00 ± 0.02

22 Slater Ave, Norwich, CT 06360

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
544	2nd	Front Porch	A	Porch Railing	Wood	White	Intact	Negative	0.00 ± 0.02
545	2nd	Front Porch	A	Porch Baluster	Wood	White	Intact	Negative	0.00 ± 0.02
546	2nd	Front Porch	C	Floor Trim	Wood	White	Poor	Negative	0.25 ± 0.38
547	2nd	Front Porch	C	Floor Trim	Wood	White	Poor	Negative	0.40 ± 0.50
548				Calibration- Surface			1.53mg/cm ²	Positive	1.60 ± 0.30
549				Calibration- Surface			1.04mg/cm ²	Positive	1.10 ± 0.10
550				Calibration- Surface			1.04mg/cm ²	Positive	1.10 ± 0.10
551				Calibration- Surface			1.04mg/cm ²	Positive	1.10 ± 0.10
552				Calibration- Surface			0.01mg/cm ²	Negative	0.00 ± 0.02

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
1				Calibration-Surface			1.53mg/cm ²	Positive	1.60 ± 0.10
2				Calibration-Surface			1.04mg/cm ²	Positive	1.00 ± 0.10
3				Calibration-Surface			1.04mg/cm ²	Positive	1.00 ± 0.10
4				Calibration-Surface			1.04mg/cm ²	Positive	1.10 ± 0.10
5				Calibration-Surface			0.01mg/cm ²	Negative	0.00 ± 0.02
6		Exterior	A	Door Rht	Metal	White	Intact	Negative	0.00 ± 0.02
7		Exterior	A	Door Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
8		Exterior	A	Door Casing	Wood	White	Intact	Negative	0.04 ± 0.20
9		Exterior	A	Door Lft	Wood	White	Intact	Negative	0.00 ± 0.02
10		Exterior	A	Door Lft	Wood	White	Intact	Negative	0.00 ± 0.02
11		Exterior	A	Door Jamb	Wood	White	Intact	Positive	25.50 ± 17.60
12		Exterior	A	Door Threshold	Wood	Gray	Poor	Positive	8.00 ± 4.50
13		Exterior	A	Porch Floor	Wood	Gray	Poor	Negative	0.04 ± 0.12
14		Exterior	A	Porch Floor	Wood	Gray	Poor	Negative	0.02 ± 0.09
15		Exterior	A	Porch Floor	Wood	Gray	Poor	Negative	0.08 ± 0.19
16		Exterior	A	Porch Floor	Wood	Gray	Poor	Negative	0.01 ± 0.03
17		Exterior	A	Porch Rail Cap	Wood	White	Intact	Negative	0.00 ± 0.02
18		Exterior	A	Porch Baluster	Wood	Beige	Intact	Negative	0.00 ± 0.02
19		Exterior	A	Porch Column	Wood	White	Intact	Negative	0.00 ± 0.02
20		Exterior	A	Porch Lower Trim	Wood	White	Intact	Negative	0.03 ± 0.05
21		Exterior	A	Ext. Foundation	CMU	Black	Intact	Positive	1.40 ± 0.40
22		Exterior	A	Ext. Foundation	CMU	Black	Intact	Positive	1.90 ± 0.80
23		Exterior	B	Ext. Foundation	CMU	Black	Intact	Positive	1.90 ± 0.80
24		Exterior	B	Cellar Window Sill Rht	Concrete	Black	Poor	Positive	2.30 ± 0.90
25		Exterior	B	Wind. Sash Ext. (Bath)	Wood	White	Peeling	Negative	0.00 ± 0.02
26		Exterior	C	Ext. Foundation	CMU	Black	Intact	Positive	2.20 ± 1.00
27		Exterior	D	Ext. Foundation	CMU	Black	Intact	Positive	2.00 ± 0.90
28		Exterior	D	Window Blind Stop	Wood	White	Peeling	Positive	20.50 ± 12.80
29		Exterior	D	Window Sill	Wood	White	Peeling	Positive	11.50 ± 7.80
30		Exterior	D	Door	Wood	Black	Peeling	Positive	7.90 ± 4.50
31		Exterior	D	Door Jamb	Wood	Unpainted	Intact	Negative	0.00 ± 0.02
33		Garage Ext	A	Door	Wood	White	Intact	Negative	0.00 ± 0.02
34		Garage Ext	A	Door Casing	Wood	White	Fair	Negative	0.00 ± 0.02
35		Garage Ext	A	Overhead Dr	Wood	White	Peeling	Negative	0.00 ± 0.02
36		Garage Ext	A	Overhead Dr	Wood	White	Peeling	Negative	0.01 ± 0.04
37		Garage Ext	A	Overhead Dr Jamb	Wood	White	Intact	Negative	0.00 ± 0.02
38		Garage Ext	A	Overhead Dr Casing	Wood	White	Intact	Negative	0.01 ± 0.03
39		Garage Ext	A	Overhead Dr Casing Outer	Wood	White	Poor	Positive	8.10 ± 5.00
40		Garage Ext	A	Ext. Soffit	Wood	White	Poor	Positive	12.40 ± 3.70
41		Garage Ext	A	Ext. Siding	Wood	Black	Intact	Negative	0.01 ± 0.04
42		Garage Ext	B	Ext. Siding	Wood	Black	Intact	Positive	1.40 ± 0.30
43		Garage Ext	B	Ext. Siding	Wood	Black	Intact	Positive	1.30 ± 0.20
44		Garage Ext	B	Ext. Soffit	Wood	White	Peeling	Positive	13.80 ± 12.40
45		Garage Ext	B	Window Sash Ext.	Wood	Black	Peeling	Positive	8.90 ± 4.60
46		Garage Ext	B	Window Casing	Wood	White	Peeling	Positive	13.40 ± 9.70
47		Garage Ext	C	Window Casing	Wood	White	Peeling	Positive	15.20 ± 10.10
48		Garage Ext	C	Window Sash Ext.	Wood	Black	Peeling	Positive	10.10 ± 5.60
49		Garage Ext	C	Ext. Siding	Wood	Black	Intact	Positive	1.30 ± 0.30
50		Garage Ext	C	Ext. Soffit	Wood	White	Peeling	Positive	12.00 ± 3.50
51		Garage Ext	D	Ext. Siding	Wood	Black	Peeling	Positive	1.20 ± 0.20
52		Garage Ext	D	Window Casing	Wood	White	Peeling	Positive	11.70 ± 7.40
53		Garage Ext	D	Window Storm Inset	Wood	Black	Peeling	Negative	0.19 ± 0.15

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
54		Garage Ext	D	Window Storm Insert	Wood	Black	Peding	Negative	0.13 ± 0.11
55		Garage Ext	D	Window Sash Ext.	Wood	Black	Peding	Positive	10.80 ± 8.20
56		Garage Ext	D	Ext. Soffit	Wood	White	Peding	Positive	11.50 ± 3.50
57				Calibration- Surface			1.53mg/cm ²	Positive	1.50 ± 0.20
58				Calibration- Buried			1.04mg/cm ²	Positive	1.10 ± 0.10
59				Calibration- Buried			1.04mg/cm ²	Positive	1.20 ± 0.10
60				Calibration- Buried			1.04mg/cm ²	Positive	1.20 ± 0.10
61				Calibration- Buried			0.01mg/cm ²	Negative	0.00 ± 0.02



Lead Dust Wipe Analysis Report

Environmental Hazards Services, L.L.C.

7469 Whitepine Rd
Richmond, VA 23237

Telephone: 800.347.4010

Report Number: 18-10-00862

Client: CT Lead Paint Solutions Inc.
1245 Hebron Avenue
Glastonbury, CT 06033

Received Date: 10/04/2018
Analyzed Date: 10/08/2018
Reported Date: 10/08/2018

Project/Test Address: 18-0285; Sanon Residence Assessment Tests; 22 Slater Ave; Norwich, CT 06360

Collection Date: 09/27/2018

Client Number:
07-1566

Laboratory Results

Fax Number:
860-633-3330

Lab Sample Number	Client Sample Number	Collection Location	Surface	Total Pb (ug)	Wipe Area (ft ²)	Concentration (ug/ft ²)	Narrative ID
18-10-00862-001	DW-1	B SIDE VI NYL ROOM 1 1ST FLOOR	FL	<5.00	1.00	<5.00	
18-10-00862-002	DW-2	A SIDE LEFT WOOD ROOM 1 1ST FLOOR	SL	8.36	0.524	16.0	
18-10-00862-003	DW-3	C SIDE WOOD ROOM 3 1ST FLOOR	FL	<5.00	1.00	<5.00	
18-10-00862-004	DW-4	D SIDE VINYL ROOM 3 1ST FLOOR	WW	54.0	0.549	98.3	
18-10-00862-005	DW-5	D SIDE VINYL KITCHEN 1ST FLOOR	FL	5.34	1.00	5.34	
18-10-00862-006	DW-6	D SIDE LEFT WOOD KITCHEN 1ST FLOOR	SL	<5.00	0.524	<9.55	
18-10-00862-007	DW-7	A SIDE WOOD FRONT STAIRS 2ND FLOOR	FL	241	1.00	241	
18-10-00862-008	DW-8	D SIDE WOOD ROOM 2 2ND FLOOR	FL	11.1	1.00	11.1	
18-10-00862-009	DW-9	D SIDE LEFT WOOD ROOM 2 2ND FLOOR	SL	22.3	0.524	42.6	
18-10-00862-010	DW-10	D SIDE LEFT METAL ROOM 2 2ND FLOOR	WW	54.6	0.469	116	
18-10-00862-011	DW-11	C SIDE CERAMIC KITCHEN 2ND FLOOR	FL	5.32	1.00	5.32	
18-10-00862-012	DW-12	B SIDE LEFT VINYL ROOM 4 2ND FLOOR	WW	103	0.521	198	

Environmental Hazards Services, L.L.C

Client Number: 07-1566
Project/Test Address: 18-0285; Sanon Residence Assessment Tests; 22 Slater Ave; Norwich, CT 06360

Report Number: 18-10-00862

Lab Sample Number	Client Sample Number	Collection Location	Surface	Total Pb (ug)	Wipe Area (ft ²)	Concentration (ug/ft ²)	Narrative ID
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Method: ASTM E-1979-17/EPA SW846 7000B

Accreditation #: CT PH-0234

Reviewed By Authorized Signatory: Melissa Kanode

Missy Kanode

QA/QC Clerk

The Federal lead guidelines for dust clearance levels by wipe sampling: Floors (FL) - 40 ug/ft², Interior Window Sills (SL) - 250 ug/ft², Window Wells (WW) - 400 ug/ft².

Effective April 1, 2017 all existing Office of Lead Hazard Control and Healthy Homes (OLHCHH), Lead Based Paint Hazard Control (LBPHC), and Lead Hazard Reduction (LHRD) grantees will use the following dust-lead action levels and clearance action levels (or lower levels if required by local, state or tribal authorities having jurisdictions):

Dust-Lead Action Levels: Floors (FL) - ≥ 10 ug/ft², Window Sills (SL) - ≥ 100 ug/ft²
 Lead Clearance Action Levels: Interior Floors (FL) - < 10 ug/ft², Porch Floors (PFL) - < 40 ug/ft²
 Window Sills (SL) - < 100 ug/ft², Window Troughs (WW) - < 100 ug/ft²

The Reporting Limit (RL) is 5.00 ug Total Pb. Reported results are not corrected for field blanks. Dust wipe area and results are calculated based on area measurements determined by the client. All internal quality control requirements associated with this batch were met, unless otherwise noted.

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, etc., was provided by the client. Results reported above in ug/ft² are calculated based on area supplied by the client. If the report does not contain the result for a field blank, it is due to the fact that the client did not include a field blank with their samples. EHS sample results do not reflect blank correction. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Services, L.L.C.

ELLAP Accreditation through AIHA-LAP, LLC (100420), NY ELAP #11714.

Legend	ug = microgram	ug/ft ² = micrograms per square foot	Pb = lead
	mL = milliliter	ft ² = square foot	

Environmental Hazards Services, LLC
 7469 Whitepine Road
 North Chesterfield, Virginia 23237
 804-275-4788

18-10-00862



Due Date:
 10/08/2018
 (Monday)
 AE

CHAIN OF CUSTODY FORM

Date: September 28, 2018
 Company Name: CT Lead Paint Solutions, LLC
 Address: 1245 Hebron Ave.
 City, State, Zip: Glastonbury, CT 06033
 Phone: 860-633-3330
 Project Name: Sanon Residence
 Project Address: 22 Slater Ave, Norwich, CT 06360
 Project Number: 18-0285

E-mail to: andrew@ctleadpaint.com
 Dates of Collections: September 27, 2018
 Assessment Tests

Matrix	Method	Instrument	Method Detect Limits	TAT
Lead in Dust	EPA SW 846 7420	Flame Atomic Absorption	3.0 µg/wipe	two day

Lead Wipes Used **Lead in Dust**

Sample #	Area size/ Sq. inch	Location Sample and substrate	Room or Area
DW-1	144.00	Floor, B side, vinyl	Room 1, 1 st Floor
DW-2	75.50	Window sill, A side, left, wood	Room 1, 1 st Floor
DW-3	144.00	Floor, C side, wood	Room 3, 1 st Floor
DW-4	79.00	Window well, D side, vinyl	Room 3, 1 st Floor
DW-5	144.00	Floor, D side, vinyl	Kitchen. 1 st Floor
DW-6	75.50	Window sill, D side, left, wood	Kitchen. 1 st Floor
DW-7	144.00	Floor, A side, wood	Front Stairs, 2 nd Fl
DW-8	144.00	Floor, D side, wood	Room 2, 2 nd Floor
DW-9	75.50	Window sill, D side, left, wood	Room 2, 2 nd Floor
DW-10	67.50	Window well, D side, left, metal	Room 2, 2 nd Floor
DW-11	144.00	Floor, C side, ceramic	Kitchen, 2 nd Floor
DW-12	75.00	Window well, B side, left, vinyl	Room 4, 2 nd Floor
Collected	Andrew Miller	Signature	Date: Sept. 27, 2018
mailed	Andrew Miller	Signature	Date: Oct. 01, 2018
Received	D. Emory	D. Emory	Date: 10/1/18 1:00 PM



Environmental Hazards Services, L.L.C.
 7469 Whitepine Rd
 Richmond, VA 23237
 Telephone: 800.347.4010

Lead in Soil Analysis Report

Report Number: 18-10-00865

Client: CT Lead Paint Solutions Inc.
 1245 Hebron Avenue
 Glastonbury, CT 06033

Received Date: 10/04/2018
 Analyzed Date: 10/09/2018
 Reported Date: 10/09/2018

Project/Test Address: 18-0285; Sanon Residence Assessment Tests; 22 Slater Ave; Norwich, CT 06360
 Collection Date: 09/27/2018

Client Number:
 07-1566

Laboratory Results

Fax Number:
 860-633-3330

Lab Sample Number	Client Sample Number	Collection Location	Concentration ppm (ug/g)	Narrative ID
18-10-00865-001	SOIL-1	A AND C SIDES	1300	

Method: ASTM E-1979-17/EPA SW846 7000B
 Accreditation #: CT PH-0234

Reviewed By Authorized Signatory: *Melissa Kanode*

Missy Kanode
 QA/QC Clerk

The Federal lead guidelines for lead in soil is 400 ug/g (ppm) in play areas, and 1200 ug/g (ppm) in bare soil in the remainder of the yard. The Reporting Limit (RL) is 10.0 ug Total Pb. All internal quality control requirements associated with this batch were met, unless otherwise noted.

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Unless otherwise noted, samples are reported without a dry weight correction. Sample location, description, area, volume, etc., was provided by the client. If the report does not contain the result for a field blank, it is due to the fact that the client did not include a field blank with their samples. EHS sample results do not reflect blank correction. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C.

ELLAP Accreditation through AIHA-LAP, LLC (100420), NY ELAP #11714.

LEGEND ug = microgram ppm = parts per million
 ug/g = micrograms per gram

18-10-00865



Environmental Hazards Services, LLC
 7469 White Pine Road
 North Chesterfield, Virginia 23237
 804-275-4788

Due Date:
 10/09/2018
 (Tuesday)
 AE

CHAIN OF CUSTODY FORM

SW

Date: September 28, 2018
 Company Name: CT Lead Paint Solutions, LLC
 Address: 1245 Hebron Ave.
 City, State, Zip: Glastonbury, CT 06033
 Phone: 860-633-3330
 Project Name: Sanon Residence
 Project Address: 22 Slater Ave, Norwich, CT 06360
 Project Number: 18-0285

E-mail to: andrew@ctleadpaint.com
 Dates of Collections: September 27, 2018
 Assessment Tests

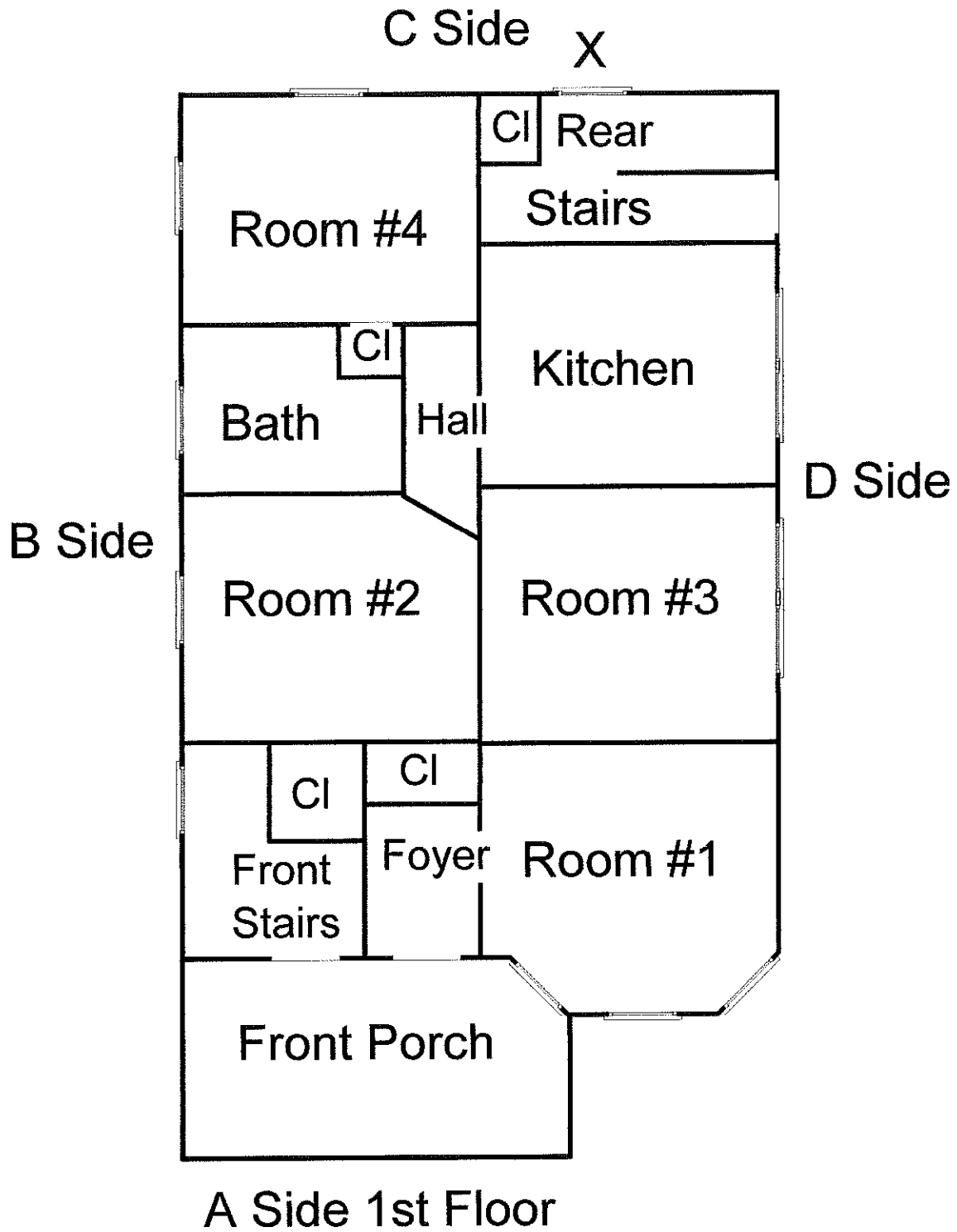
Matrix	Method	Instrument	mdls	TAT
Lead in Soil	EPA846-7420	Flame Atomic Absorption	20mg/kg 20 ppm	three day

Lead in Soil

Sample #	Exterior Area	Location Sample	Comments	Lab notes
Soil - 1	Collected from with-in 1 foot of the foundation or porch	A and C sides	8 composite sample	
The B and D side have a 3ft wide concrete pad adj. to the house				
Lab, please mix sample				
Collected	Andrew Miller	Sign.	Date: Sept. 27, 2018	
Mailed by	Andrew Miller	Sign.	Date: Oct. 01, 2018	
Received by	D. Emory	Sign. D. Emory	Date: 10/4/18 1:09 PM	

X = Pos. wood windows

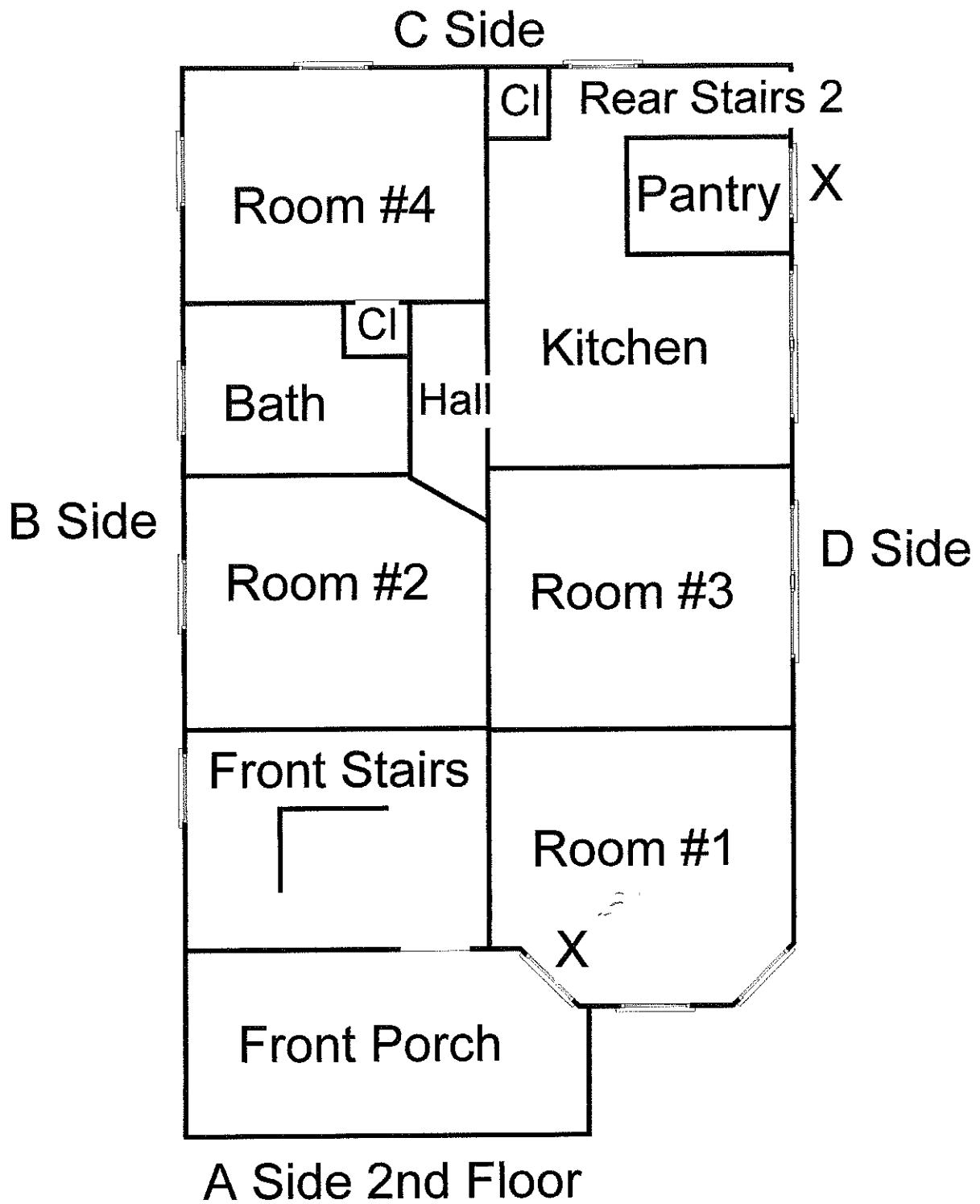
Cl = Closet



24 Slater Ave, Norwich, CT 06360

X = Pos. wood windows

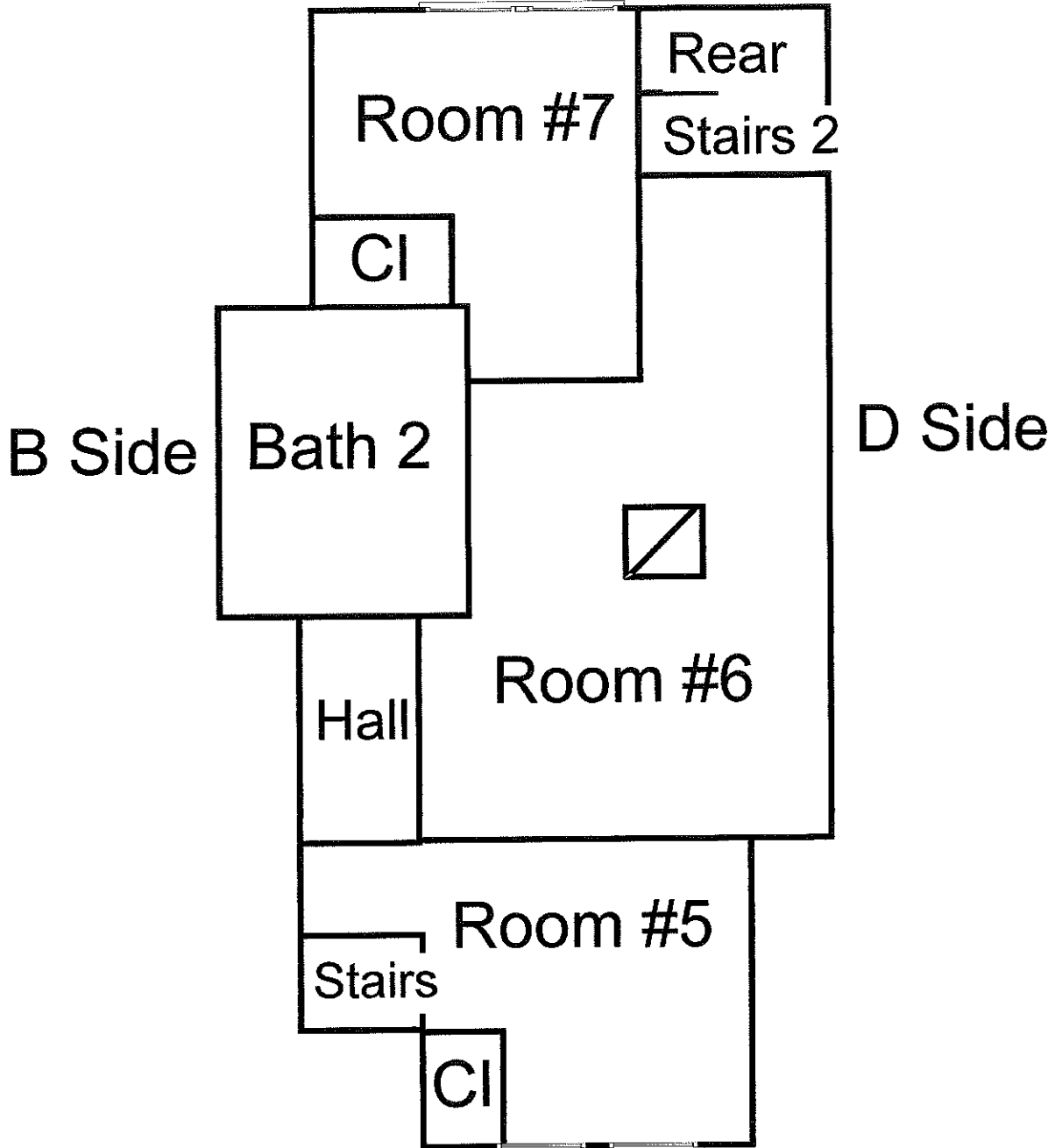
Cl = Closet



22 Slater Ave, Norwich, CT 06360

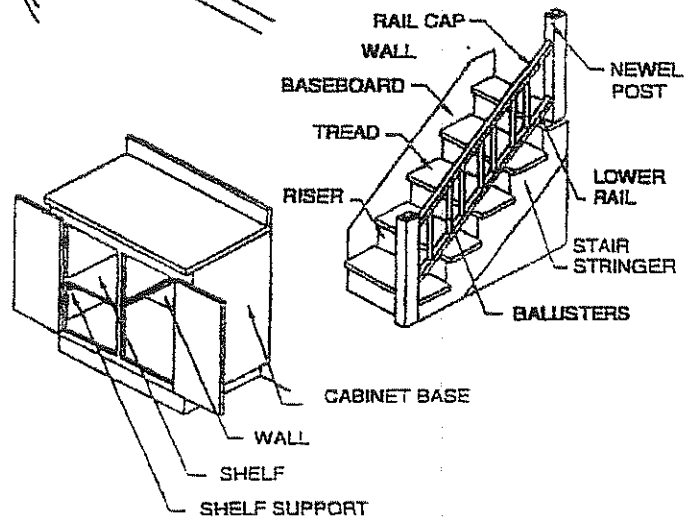
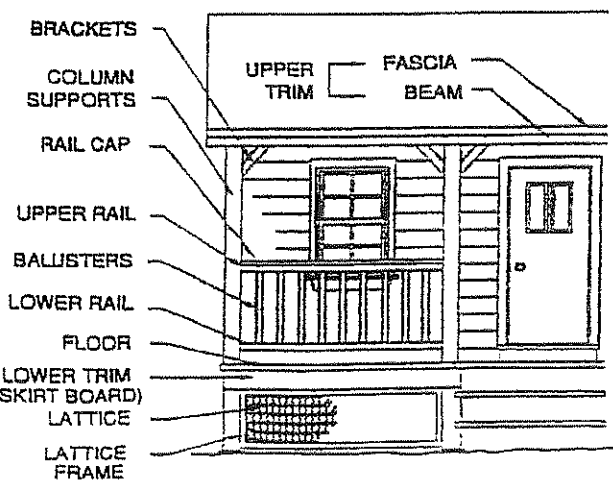
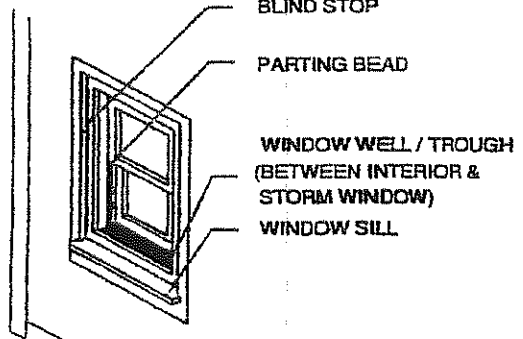
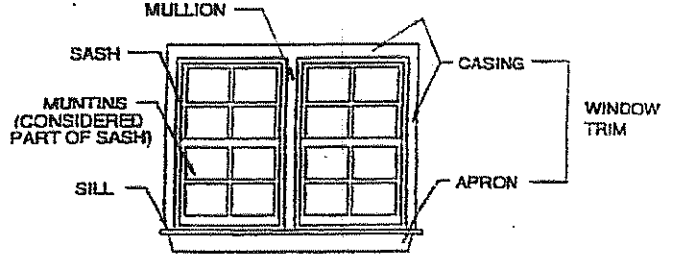
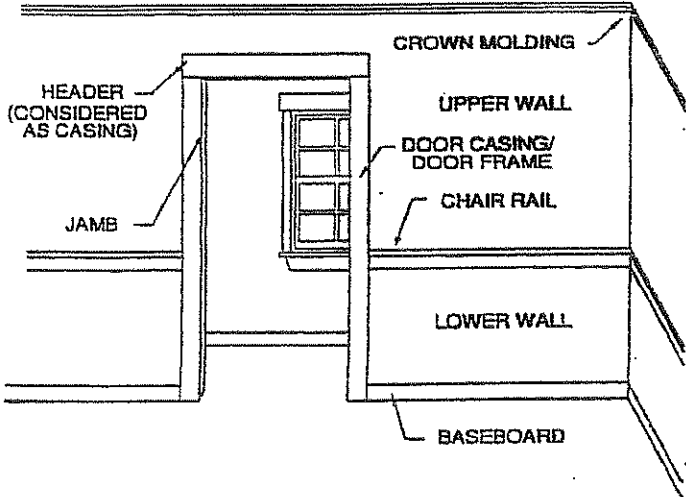
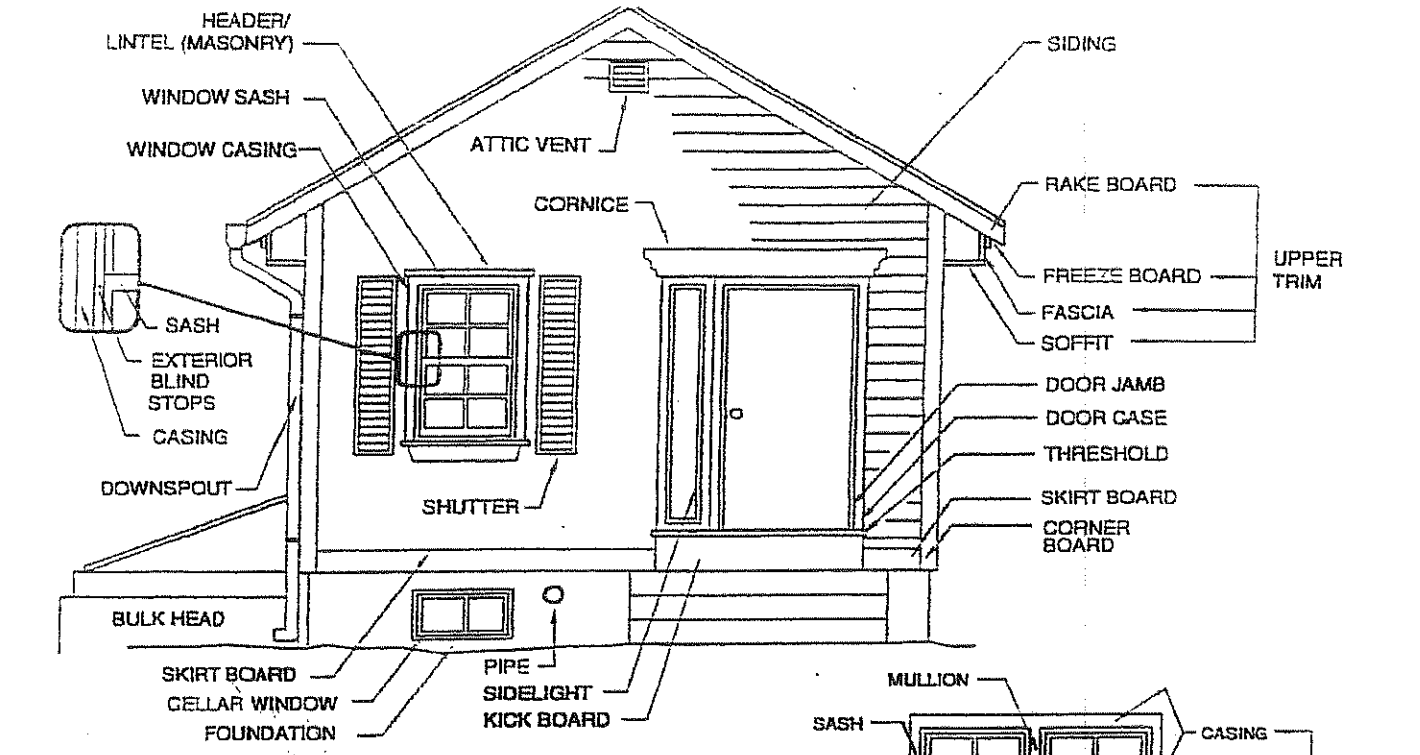
Cl = Closet

C Side



A Side 3rd Floor

22 Slater Ave, Norwich, CT 06360



Connecticut Lead Paint Solutions, LLC

1245 Hebron Avenue
Glastonbury, CT 06033
860-633-3330
CT License #2124
andrew@ctleadpaint.com

Lead Paint Inspections & Testing
Consulting & Cost Analysis
Abatement/Management Plans
Abatement & Clean-up

Lead Abatement Plan for 22 – 24 Slater Ave Norwich, CT 06360

A. Background Information

This abatement plan was submitted on October 16, 2018.

Address of property to be abated;
22 – 24 Slater Ave
Norwich, CT 06360

This abatement plan was prepared by
Planner/Project Designer; Andrew Miller
Certificate #002129
1245 Hebron Ave
Glastonbury, CT 06033
860-633-3330

The property was inspected by;
Connecticut Lead Paint Solutions, LLC
1245 Hebron Ave
Glastonbury, CT 06033
860-633-3330
Lead Consultant Contractor License; #2124
Lead Inspector/Risk Assessor; Andrew Miller
Lead Inspector/Risk Assessor #002179
Dates of inspection were September 27 and October 08, 2018.

B. Owner/Owner Agent Information

The owners and agent of the house is;
Gerard and Marie Sanon
22 Slater Ave St
Norwich, CT 06360
860-574-0260 (Marie)

C. **Resident Information**

At the time of the inspection no children under the age of Six years resided in the dwelling. The occupants will be notified at least 5 days prior to starting any work.

D. **Abatement Contractor Information**

The lead abatement contractor has not been selected yet. The Uncas Health Department will be notified when the selection has been made and before any work is started.

E. **Repairs Prior to Abatement**

No repair appear to be required prior to starting the abatement work.

F. **Abatement Techniques to be Used**

1. **Component Replacement.** Replace positive wood window sashes and cellar windows with Vinyl Replacement Windows (VRW) and some existing doors with new pre-hung door units. The replacement windows will cover all impact and friction surfaces on the window wells and all parting beads will be removed.
2. **Liquid Encapsulation.** Remove all defective paint, feather out all edges, wet sand and wash surface, on both the interior and exterior. Prime as required and paint with an approved encapsulating paint. The encapsulating paint must contain Bitrex.
3. **Rigid Encapsulation.** Cover the exterior window blind stops on the house with aluminum trim. Cover the complete detached garage with vinyl siding and aluminum trim.

Please Note; As an alternative method to removing paint from interior door jambs, the door stops may be removed and luan added to cover the complete door jamb. Add new door stops and adjust doors, as needed. This process is not to be used on any exterior entrance door unit.

The abatement contractor and/or owner must have read and follow Encapsulating Guide book when using encapsulating paints. Follow procedures for testing existing surface to ensure proper adhesion. Document all testing results. Consult with Lead Planner Project Designer if any surfaces fails test and therefore is not acceptable for encapsulation. Follow all procedure on proper preparation of surfaces that are to be encapsulated. The Lead Planner Project Designer will require the abatement contractor, if any, to provide a written and signed statement that they have read and followed the Liquid Encapsulating Guide. The guide is available online at; http://www.ct.gov/dph/lib/dph/environmental_health/lead/pdf/ec_guide.pdf.

The complete list of all areas and components to be abated, along with the methods to be used, is detailed on the attached abatement sheets.

G. The Dates of the Abatement Project

The estimated starting date of the abatement work is currently unknown. The Uncas Health Department will be notified 5 days prior to starting any abatement work.

H. Notification To The Connecticut Historical Commission

This house was built in or about 1930. The City of Norwich will notify the Connecticut Historical Commission, if required to do so

I. Occupant Notification Procedure

The owner or contractor will provide all tenants with the EPA guide titled; Renovate Right: Important Lead Hazard Information for Families, Child Care Providers, and Schools.

Warning signs will be posted on all entrance doors of the building while abatement work is performed. These signs will be in English only.

J. Containment of the Work Area

Interior

Six mil plastic will cover the complete floor in the work areas and be taped completely to the baseboard prior to starting any work. After abatement work is complete, roll plastic inward so all paint chips and debris are sealed in the plastic, tape closed and place in 6 mil plastic bag and tape shut. HEPA vacuum work area after plastic is removed. Cover all heating duct vents, as needed.

Exterior

Containment is required to collect all paint chips and dust that disturbed during the exterior abatement. All windows and entrance doors must be covered with plastic, until all surfaces on that side are prepared for painting and primed.

After the surface preparations and abatement are complete, un-tape the plastic from the adjacent surfaces and roll inward or collapse so all paint chips and debris are sealed in the plastic. Tape the rolled plastic closed with duct tape and dispose of in six mil plastic bag. Hepa vacuum any paint chips on the ground that were not captured by the plastic.

No person will enter or remain in a work area at any time during this project except the owner, or his agent, certified workers, enforcement officials, their designees, or the lead project/planner. People other than those listed above may enter the work area only after the area has been clean-up and vacuumed with a HEPA vacuum.

K. Cleaning After Lead-Based Paint Abatement

Clean-up of the interior areas after the abatement work is completed will be as follows; remove the polyethylene plastic by un-taping from baseboards and rolling plastic inward, overlapping itself, wrap with tape after rolling up. Spray plastic surfaces with water bottle if plastic contains

paint chips or loose debris. This will reduce dust movement. Put plastic into 6 mil plastic bags and tape shut.

HEPA vacuum all uncovered floor, window sills, window wells and all horizontal surfaces in work area. Wash all vacuumed surfaces with TSP or equivalent cleaner and rinsed with clean water. Avoid contaminating the washing solution by only using a clean paper towel or rag to wash surfaces. Discard all towels or rags after using just once. Hold towel/rag in a way that hands are never in contact with TSP solution. Carpeted floor will not be washed but HEPA vacuumed twice. HEPA vacuum wood or hard surface floors again after floors are dry.

Then after waiting 4 hours after active abatement has ceased the final clean-up can begin. For final clean-up, the abatement area is HEPA vacuumed, TSP washed and HEPA vacuumed again.

After 4 hours have passed after the clean-up of the abatement work, the areas will be ready for clearance testing.

L. Waste Disposal

All the waste plastic, overhead door and paint chips that have been removed will be wrapped in clean plastic and taped-up prior to being removed from the containment area. Disposal of all lead abatement waste will be in compliance with current all local and state regulations. If the owner elects to dispose of the debris herself, and the total amount of debris is 10 cubic yard or less, she will have an exemption from the waste disposal regulations. If it is anticipated that the amount of debris will be more than 10 cubic yards, consult with the Lead Planner Project Designer prior to any waste disposal.

M. Worker Protection

The owner, and any authorized visitor, without exception, will wear required protective clothing before entering any work area where active abatement is being performed but not yet completed and cleaned.

The worker protection will be as follows:

1. Workers will wear a full Tyvek suit (or equivalent).
2. Workers will wear booties when working in the containment area or on the containment plastic.
3. A half face respirator, NIOSH approved respirators, as required by Connecticut laws with an appropriate filter, (for lead dust) will be used when removing any window or door component.

No smoking, eating or drinking is to be done in the containment areas, and; the workers will wash hands at the end of working and before eating or drinking. Hand to Mouth activities are the easiest way for workers to be exposed to lead.

N. Clearance Testing

After the abatement work is complete and the areas have been cleaned up, a visual inspection will be performed and dust wipes samples will be collected in all rooms or areas where abatement work was performed. The visual inspection and the dust wipe samples will be done by the Uncas Health Department , Connecticut Lead Paint Solutions, LLC 1245 Hebron Ave, Glastonbury, CT 06033 860-633-3330 or another licensed lead consultant. Three dust wipe samples will be

collected in each interior room or area where abatement was performed, one on a floor, one on a window interior sill and one on a window well in each room or area.

The clearance levels must be less than, as follows:

Floors	10ug/ft ² (micrograms per square foot of surface)
Porch Floors	40ug/ft ² (micrograms per square foot of surface)
Window Sills	100ug/ft ² (micrograms per square foot of surface)
Windows Wells	100ug/ft ² (micrograms per square foot of surface)

A final inspection will verify that all abatement work, as detailed in the abatement plan, has been completed, and that all of the clearance dust wipe tests results are under state action levels. Verify that all debris and construction materials removed from work areas. The letter of compliance shall then be issued by the Uncas Health Department.

Lead Management Plan

A lead management plan will need to be written, explaining which areas still have lead-based paint, when and how they will be periodically monitored. The lead management plan must be sent to the Uncas Health Department for their approval. The lead management plan will also include all surfaces that have been prepared and painted with an approved encapsulating paint. This will ensure that all current and future owners of this building are aware that even though the existing lead paint is covered and abated according to regulations, there is still lead-based paint under the new encapsulating paint.

The management plan will be written after the abatement is completed, since some changes from this abatement plan may occur, due to field conditions. Any changes, however, must be approved by the Uncas Health Department.

Abatement Sheet for
22 – 24 Slater Ave
Norwich, CT 06360

Room or Area	Component, number of components, Substrate	Location	Abatement Method	Comments
1st Floor				
Foyer	Closet Door, 1, wood	C side	Replace with new door	Alternative method; Replace with new wood pre-hung unit
Kitchen	Window sills and casings, 2, wood	D side	Prepare and encapsulate	(window sashes are vinyl)
	Cabinet door and frames, all Uppers only, all, wood. Cab. Shelves are neg. for LBP	B side	Remove all paint on all friction and impact surfaces. Re-test with XRF to ensure lead levels are below reg. limits. Prepare and encapsulate all other surfaces on doors and frames (uppers only)	
2nd Floor				
Room 1	Window sills and casings, 3, wood	A side	Prepare and encapsulate	
	Window sash, 1, wood	A side, right	Replace with vinyl replacement unit.	
	Door unit, 1, wood (includes the door, door jamb and door casing) Note, all Front Stairs sides of this door and frame are neg. for LBP	B side,	Remove all paint from all friction and impact surfaces on the door. Remove all paint from at least 2 inches from all edges on the face of the door which impacts with the door jamb (including the upper style of the door) and feather paint edges. Remove all paint on both the hinge and strike edges (thin sides) of the door. Remove all paint from the door jamb (friction side) and door stop edge. Test all stripped surfaces with XRF instrument to ensure the surfaces are below regulatory limits. Prepare and paint with an approved encapsulating paint all remaining painted surfaces on the door, door jamb and door casing, including the stripped surfaces. Prime as needed. Room 1 sides only. This process is called Door Treatment . Alt. method; replace with new pre-hung door unit.	
Room 2	Window sills and casings, 1, wood	B side	Prepare and encapsulate	
	Door units, 3, wood (includes the door, door jamb and door casing). (Includes closet door)	A and C/D sides	Door treatment.	Alt. method; replace with new pre-hung door units.

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Room 3	Window sills and casings, 2, wood	D side	Prepare and encapsulate	
Room 4	Window sills and casings, 2, wood	B and C side	Prepare and encapsulate	
	Door units, 2, wood (includes the door, door jamb and door casing). (Includes closet door)	A and D sides	Door treatment.	Alt. method; replace with new pre-hung door units.
	Closet casing and jamb, 1, wood	A side	Prepare and encapsulate	No door
Pantry	Window sash, 1, wood	D side	Replace with vinyl replacement unit.	
Rear Stairs, 1st	Window sash, 1, wood	C side	Replace with vinyl replacement unit.	
Basement stairs	Window sash, 1, wood	C side	Replace with vinyl replacement unit.	
Exterior				
Front Porch, 1 st Floor	Door Jamb, 1, wood	A side, left	Cover with aluminum trim	
	Door Threshold, 1, wood		Remove all paint, test with XRF to ensure that the lead levels are below re. limits.	Finish with paint or varnish, 3 coats as needed.
Front Porch, 2 nd Floor	Door Jamb, 1, wood	A side,	Cover with aluminum trim	
	Door Threshold, 1, wood	A side	Remove all paint, test with XRF to ensure that the lead levels are below re. limits.	Finish with paint or varnish, 3 coats as needed.
	Door kickplate, 1, wood	A side	Cover with aluminum trim	Alt. method; remove and replace with Azak
Note; Window Sash Ext. is replaced with Room 1				
Exterior	Foundation, CMU	D side	Clean and remove all lichen and moss. Prepare and encapsulate.	
	Cellar Window sill, 1, concrete	B side, 2 nd from right	Prepare and encapsulate	

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Exterior (continued)	Door, 1, wood	D side	Replace with new metal pre-hung unit. Remove concrete threshold and recast, if needed	
	Aluminum storm units, all remaining	All side	Remove all existing storm units.	
	Window blind stops, all, wood	All sides	Cover all exposed wood with aluminum trim	Bath windows do not need stops
	Window sills, all, wood	All sides	Cover all exposed wood with aluminum trim	
Garage	OH door casing outer (8" wide)	A side	Prepare and encapsulate	
	Exterior soffit and fascia, trim, all, wood	All side	Cover with aluminum trim	
	Window casings and sills, 6	B, C and D sides	Cover with aluminum trim	
	Window sashes, 6, wood	B, C and D sides	Replace with vinyl windows	
	Wood shingles, all, wood	D side only	Prepare and encapsulate, owner to pick color	
Grounds	Bare soil, all	A and C sides	Hepa vacuum all visible paint chips and plant grass out 4 feet	

Heating and Plumbing repair: The contractor is to patch and repair all floor penetrations left from the cast iron radiator removals. Match surface for surface as closely as possible to existing.