

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

**CITY OF NORWICH PROPERTY
REHABILITATION AND
LEAD PAINT HAZARD CONTROL
PROGRAMS
Project LP1636-RP1410**

**4 Robins Court
Norwich, CT. 06360**

PROJECT SPECIFICATION

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

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

**Bid for: LP1635-RP1410
4 Robbins Court
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

4 Robins Court

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 March 15, 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, March 22, 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:

**4 Robbins Court
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 Specifications	<u>16-17</u>
Lead Inspections	<u>1 A</u>
Lead Scope of work	<u>1 B</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 **03-15-19 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: #LP1635-RP1410 4 Robbins Court
-On the outside front of the envelope-

4. **The sealed bid proposals will be received until 4:00 PM on 03-22-19,** 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: LP1636-RP1410
ADDRESS: 4 Robbins Court
Norwich, Connecticut, 06360

OWNERS NAME: Kemesha Reynolds
OWNERS ADDRESS: 4 Robbins Court
Norwich CT. 06360

OWNERS PHONE NO: 860-303-2699

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.

4 Robbins Ct



4 Robbins Ct
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 Manager 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.

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 **30, 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: _____

[illegible]

BASIC BID PACKAGE: **Bid 2-Heating**

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 15,

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: _____

[illegible]

201. NON-COLLUSION AFFIDAVIT OF CONTRACTOR

State of _____)
) ss.
County of _____)

_____, 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	<p>REHABILITATION PROGRAM:</p> <p>4 Robbins Court</p> <p>HEATING (General Instructions and requirements)</p> <p>Existing heating system: Contractor to include removal of existing Heating systems and all associated hardware as need to accommodate the new installations.</p> <p>Install (#1) new combination, on demand, natural gas fired, hot water heating unit “Stainless steel heat exchanger”, (Zone configuration to follow existing for the home, include new electronic thermostats, locations in coordination with Home Owner)</p> <p>The new hot water heating system is to utilize the existing cast iron radiators. Include all repairs or modifications that can be readily identified for proper functioning in conjunction with the new systems. (Contractors should expect that utilizing the cast iron radiators in conjunction with the new heating system will require some repairs for proper functioning. Contractors are to bid accordingly.)</p> <p>Basic Product Requirements</p> <p>(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</p>	
----	--	--

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.

General Plumbing Items

Toilets 1st and 2nd Floor- The home owner reports that both toilets leak around the base when flushed. It's likely that the flange and wax gasket have failed. Contractor is to pull both toilets, inspect and replace toilet seating apparatus. Note: If an inspection reveals another cause for the leaks we will re-evaluate the solution.

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;
4 Robbins Court
Norwich, CT 06360

Owners; Kemesha Reynolds and Pierre Vilnor

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 October 30, 2018.

1 A

The property inspected is a single-family house built in 1905. All interior rooms or areas were fully inspected including Attic and Basement Stairs. The unfinished basement was partially inspected.

Some of the interior surfaces tested in the house were positive for lead-based paint (LBP). Many, but not all, of the plaster walls were also positive for LBP. Almost all interior positive readings were intact.

Most of the windows are the original units and most were positive for LBP on either interior or exterior surfaces.

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 on the Front Porch and other surfaces were positive for LBP and some were also defective.

Lead in Dust and Soil Assessment

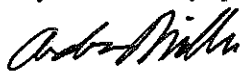
Six dust wipe samples were collected for analysis of lead concentrations by an accredited laboratory. Five dust wipe samples were over the limits set by HUD for risk assessment testing, therefore failing. Only sample DW-42, passed. The limits must not exceed $10\mu\text{g}/\text{ft}^2$ (micrograms lead per square foot of surface area) for floors and $100\mu\text{g}/\text{ft}^2$ 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 side yard of the house. The test result was 320ppm.

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. No action will be required at this site.

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
November 26, 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.

4 Robbins Court, Norwich CT 06360

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
1				Calibration- Surface			1.53mg/cm ²	Positive	1.70 ± 0.40
2				Calibration- Surface			1.04mg/cm ²	Positive	1.10 ± 0.10
3				Calibration- Surface			1.04mg/cm ²	Positive	1.10 ± 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	Wood	White	Intact	Negative	0.11 ± 0.15
7	1st	Foyer	A	Door Jamb	Wood	White	Intact	Negative	0.12 ± 0.18
8	1st	Foyer	A	Door Casing	Wood	White	Intact	Negative	0.17 ± 0.26
9	1st	Foyer	C	Door	Wood	White	Intact	Negative	0.08 ± 0.17
10	1st	Foyer	C	Door Casing	Wood	White	Intact	Negative	0.14 ± 0.17
11	1st	Foyer	D	Opening Casing	Wood	White	Intact	Negative	0.12 ± 0.16
12	1st	Foyer	B	Window Sill	Wood	White	Intact	Negative	0.10 ± 0.15
13	1st	Foyer	B	Window Casing	Wood	White	Intact	Negative	0.40 ± 0.50
14	1st	Foyer	B	Window Sash Int.	Wood	White	Intact	Positive	1.70 ± 0.60
15	1st	Foyer	D	Baseboard	Wood	White	Intact	Negative	0.17 ± 0.22
16	1st	Foyer	B	Radiator	Metal	White	Intact	Negative	0.18 ± 0.29
17	1st	Foyer	A	Wall	Plaster	Bone	Intact	Positive	36.30 ± 10.80
18	1st	Foyer	B	Wall	Plaster	Bone	Intact	Positive	20.80 ± 13.40
19	1st	Foyer	C	Wall	Plaster	Bone	Intact	Positive	15.40 ± 11.50
20	1st	Foyer	D	Wall	Plaster	Bone	Intact	Positive	26.10 ± 15.40
21	1st	Foyer	A	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
22	1st	Foyer	B	Stair Stringer	Wood	White	Intact	Negative	0.14 ± 0.18
23	1st	Foyer	C	Floor	Wood	Brown	Intact	Negative	0.01 ± 0.03
25	1st	Room 1	A	Window Sill	Wood	White	Intact	Positive	1.10 ± 0.10
26	1st	Room 1	A	Window Casing	Wood	White	Intact	Negative	0.60 ± 0.30
27	1st	Room 1	A	Window Sash Int. 1	Wood	White	Intact	Positive	2.60 ± 1.20
28	1st	Room 1	A	Window Sash Int. Ctr	Wood	White	Intact	Positive	2.00 ± 0.90
29	1st	Room 1	A	Window Sash Int. 3	Wood	White	Intact	Positive	2.10 ± 0.80
30	1st	Room 1	A	Window Sill	Wood	White	Intact	Negative	0.50 ± 0.50
31	1st	Room 1	A	Window Sill	Wood	White	Intact	Null	0.90 ± 0.20
32	1st	Room 1	A	Window Panel	Wood	White	Intact	Negative	0.70 ± 0.20
33	1st	Room 1	D	Window Panel	Wood	White	Intact	Negative	0.30 ± 0.27
34	1st	Room 1	D	Window Sill	Wood	White	Intact	Negative	0.80 ± 0.20
35	1st	Room 1	D	Window Casing	Wood	White	Intact	Negative	0.40 ± 0.30
36	1st	Room 1	D	Window Sash Int.	Wood	White	Intact	Positive	1.80 ± 0.80
37	1st	Room 1	B	Opening Jamb	Wood	White	Intact	Negative	0.16 ± 0.26
38	1st	Room 1	C	Door Edge	Wood	White	Intact	Negative	0.30 ± 0.28
39	1st	Room 1	C	Door Jamb	Wood	White	Intact	Negative	0.50 ± 0.40
40	1st	Room 1	D	Baseboard	Wood	White	Intact	Negative	0.70 ± 0.20
41	1st	Room 1	B	Radiator	Metal	White	Intact	Negative	0.22 ± 0.40
42	1st	Room 1	A	Pipe	Metal	White	Intact	Negative	0.03 ± 0.07
43	1st	Room 1	A	Wall	Plaster	Orange	Intact	Positive	18.00 ± 4.90
44	1st	Room 1	B	Wall	Plaster	Orange	Intact	Positive	23.10 ± 14.70
45	1st	Room 1	C	Wall	Plaster	Orange	Intact	Positive	22.60 ± 14.30
46	1st	Room 1	D	Wall	Plaster	Orange	Intact	Positive	17.40 ± 12.20
47	1st	Room 1	C	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
48	1st	Room 1	C	Ceiling Trim	Wood	White	Intact	Positive	9.20 ± 3.90
49	1st	Room 1	B	Ceiling Trim	Wood	White	Intact	Positive	15.80 ± 11.00
50	1st	Room 1	C	Floor	Wood	Brown	Intact	Negative	0.01 ± 0.03
51	1st	Room 2	A	Window Sill	Wood	White	Intact	Negative	0.23 ± 0.29
52	1st	Room 2	A	Window Casing	Wood	White	Intact	Negative	0.07 ± 0.12
53	1st	Room 2	A	Window Well	Wood	White	Intact	Negative	0.15 ± 0.24

4 Robbins Court, Norwich CT 06360

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
54	1st	Room 2	A	Window Sash Int.	Wood	White	Intact	Positive	2.10 ± 0.90
55	1st	Room 2	B	Window Sill	Wood	White	Intact	Negative	0.30 ± 0.36
56	1st	Room 2	B	Window Casing	Wood	White	Intact	Negative	0.10 ± 0.17
57	1st	Room 2	B	Window Sash Int. 1	Wood	White	Intact	Positive	1.70 ± 0.60
58	1st	Room 2	B	Window Sash Int. 2	Wood	White	Intact	Positive	1.50 ± 0.40
59	1st	Room 2	A	Door	Wood	Beige	Intact	Negative	0.11 ± 0.19
60	1st	Room 2	A	Door Casing	Wood	White	Intact	Negative	0.16 ± 0.24
61	1st	Room 2	A	Door Threshold	Wood	Brown	Intact	Negative	0.00 ± 0.02
62	1st	Room 2	D	Door	Wood	White	Intact	Negative	0.10 ± 0.24
63	1st	Room 2	D	Door Jamb	Wood	White	Intact	Negative	0.18 ± 0.20
64	1st	Room 2	C	Door	Wood	White	Intact	Negative	0.40 ± 0.30
65	1st	Room 2	C	Door Jamb	Wood	White	Intact	Negative	0.10 ± 0.14
66	1st	Room 2	C	Closet Door	Wood	White	Intact	Negative	0.25 ± 0.45
67	1st	Room 2	C	Closet Casing	Wood	White	Intact	Negative	0.03 ± 0.06
68	1st	Room 2	C	Closet Cleat	Wood	Beige	Intact	Negative	0.10 ± 0.17
69	1st	Room 2	C	Closet Cleat Lwr	Wood	Beige	Intact	Negative	0.04 ± 0.06
70	1st	Room 2	C	Closet Baseboard	Wood	Beige	Intact	Negative	0.26 ± 0.21
71	1st	Room 2	C	Closet Floor	Wood	White	Intact	Negative	0.80 ± 0.20
72	1st	Room 2	C	Closet Floor	Wood	White	Intact	Negative	0.80 ± 0.10
73	1st	Room 2	C	Closet Wall	Plaster	Beige	Intact	Negative	0.60 ± 0.40
74	1st	Room 2	C	Closet Wall Lwr	Wood	Beige	Intact	Negative	0.09 ± 0.10
75	1st	Room 2	A	Closet Jamb	Wood	Beige	Intact	Negative	0.11 ± 0.15
76	1st	Room 2	D	Baseboard	Wood	White	Intact	Negative	0.02 ± 0.04
77	1st	Room 2	A	Radiator	Metal	White	Poor	Negative	0.07 ± 0.12
78	1st	Room 2	A	Wall	Drywall	Beige	Intact	Positive	6.00 ± 3.50
79	1st	Room 2	B	Wall	Drywall	Beige	Intact	Positive	5.20 ± 3.30
80	1st	Room 2	C	Wall	Drywall	Beige	Intact	Positive	6.90 ± 3.70
81	1st	Room 2	D	Wall	Drywall	Beige	Intact	Negative	0.00 ± 0.02
82	1st	Room 2	D	Wall	Drywall	Beige	Intact	Negative	0.00 ± 0.02
83	1st	Room 2	A	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
85	1st	Room 2	A	Crown Molding	Wood	White	Intact	Negative	0.00 ± 0.02
86	1st	Room 2	A	Floor	Wood	Beige	Intact	Negative	0.00 ± 0.02
87	1st	Room 2 Closet	B	Window Sill	Wood	White	Intact	Negative	0.13 ± 0.23
88	1st	Room 2 Closet	B	Window Casing	Wood	White	Intact	Negative	0.12 ± 0.21
89	1st	Room 2 Closet	B	Window Screen	Wood	White	Intact	Negative	0.00 ± 0.02
91	1st	Room 2 Closet	B	Window Sash Int.	Wood	Beige	Intact	Positive	1.60 ± 0.60
92	1st	Room 2 Closet	A	Cabinet Door Lft	Wood	White	Intact	Positive	2.40 ± 1.10
93	1st	Room 2 Closet	A	Cabinet Body	Wood	White	Intact	Positive	1.90 ± 0.70
94	1st	Room 2 Closet	A	Cabinet Shelf	Wood	Beige	Intact	Negative	0.07 ± 0.13
95	1st	Room 2 Closet	A	Cabinet Shelf	Wood	Beige	Intact	Negative	0.03 ± 0.05
96	1st	Room 2 Closet	A	Cabinet Wall	Plaster	Beige	Intact	Negative	0.08 ± 0.74
97	1st	Room 2 Closet	A	Closet Baseboard	Wood	White	Intact	Negative	0.16 ± 0.17
98	1st	Room 2 Closet	A	Closet Cleat	Wood	White	Intact	Negative	0.25 ± 0.31
99	1st	Room 2 Closet	A	Closet Wall	Plaster	White	Intact	Negative	0.12 ± 0.20
100	1st	Room 2 Closet	A	Closet Wall	Plaster	White	Intact	Negative	0.07 ± 0.08
102	1st	Room 3	D	Window Sill Rht	Wood	White	Intact	Negative	0.90 ± 0.10
103	1st	Room 3	D	Window Casing	Wood	White	Intact	Negative	0.40 ± 0.30
104	1st	Room 3	D	Window Sash Int.	Wood	White	Intact	Null	1.10 ± 0.20
105	1st	Room 3	D	Window Sash Int.	Wood	White	Intact	Negative	0.50 ± 0.30
106	1st	Room 3	D	Window Sash Int.	Wood	White	Intact	Negative	0.60 ± 0.30
107	1st	Room 3	D	Window Sill Ctr	Wood	White	Intact	Negative	0.70 ± 0.20
108	1st	Room 3	D	Window Casing	Wood	White	Intact	Negative	0.40 ± 0.20

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
109	1st	Room 3	D	Window Sash Int.	Wood	White	Intact	Null	1.20 ± 0.20
110	1st	Room 3	D	Window Sash Int.	Wood	White	Intact	Positive	1.40 ± 0.30
111	1st	Room 3	D	Window Sill Lft	Wood	White	Intact	Negative	0.30 ± 0.31
112	1st	Room 3	D	Window Casing	Wood	White	Intact	Negative	0.30 ± 0.26
113	1st	Room 3	D	Window Sash Int.	Wood	White	Intact	Negative	0.60 ± 0.40
114	1st	Room 3	D	Window Sash Int.	Wood	White	Intact	Positive	1.20 ± 0.20
115	1st	Room 3	D	Window Sash Int. Rht	Wood	White	Intact	Negative	0.70 ± 0.20
116	1st	Room 3	A	Door Casing	Wood	White	Intact	Negative	0.40 ± 0.30
117	1st	Room 3	B	Door Lft	Wood	White	Intact	Negative	0.50 ± 0.30
118	1st	Room 3	B	Door Casing	Wood	White	Intact	Negative	0.80 ± 0.20
119	1st	Room 3	B	Door Rht (fixed)	Wood	White	Intact	Null	1.00 ± 0.50
120	1st	Room 3	B	Door Rht (fixed)	Wood	White	Intact	Null	1.00 ± 0.10
121	1st	Room 3	B	Door Rht (fixed)	Wood	White	Intact	Negative	0.90 ± 0.10
122	1st	Room 3	B	Door Casing	Wood	White	Intact	Negative	0.70 ± 0.30
123	1st	Room 3	C	Opening Jamb	Wood	White	Intact	Negative	0.70 ± 0.30
124	1st	Room 3	B	Baseboard	Wood	White	Intact	Positive	2.00 ± 0.70
125	1st	Room 3	B	Baseboard	Wood	White	Intact	Positive	1.30 ± 0.30
126	1st	Room 3	C	Baseboard	Wood	White	Intact	Negative	0.90 ± 0.10
127	1st	Room 3	A	Radiator	Metal	White	Intact	Negative	0.04 ± 0.11
128	1st	Room 3	A	Wall	Plaster	Green	Intact	Positive	35.10 ± 22.90
129	1st	Room 3	B	Wall	Plaster	Green	Intact	Negative	0.03 ± 0.09
130	1st	Room 3	B	Wall	Plaster	Green	Intact	Positive	29.30 ± 20.20
131	1st	Room 3	C	Wall	Plaster	Green	Intact	Positive	19.70 ± 13.30
132	1st	Room 3	D	Wall	Plaster	Green	Intact	Positive	18.60 ± 12.50
133	1st	Room 3	A	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
134	1st	Room 3	A	Crown Molding	Wood	White	Intact	Positive	12.10 ± 9.20
135	1st	Room 3	A	Floor	Wood	Brown	Intact	Negative	0.01 ± 0.05
136	1st	Bath 1	D	Window Sill	Wood	White	Intact	Negative	0.20 ± 0.25
137	1st	Bath 1	D	Window Sill	Wood	White	Intact	Negative	0.22 ± 0.26
138	1st	Bath 1	D	Window Casing	Wood	White	Intact	Negative	0.30 ± 0.42
139	1st	Bath 1	D	Window Sash Int.	Wood	White	Intact	Positive	3.20 ± 1.40
140	1st	Bath 1	B	Door	Wood	White	Intact	Negative	0.08 ± 0.11
141	1st	Bath 1	B	Door Jamb	Wood	White	Intact	Negative	0.03 ± 0.12
142	1st	Bath 1	B	Door Casing	Wood	White	Intact	Negative	0.26 ± 0.20
143	1st	Bath 1	C	Door	Wood	White	Intact	Negative	0.01 ± 0.02
144	1st	Bath 1	C	Door Casing	Wood	White	Intact	Negative	0.20 ± 0.41
145	1st	Bath 1	D	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
146	1st	Bath 1	B	Chair Rail	Wood	White	Intact	Negative	0.00 ± 0.02
147	1st	Bath 1	B	Chair Rail	Wood	White	Intact	Negative	0.00 ± 0.02
148	1st	Bath 1	A	Wall - Lower	Paneling	White	Intact	Negative	0.00 ± 0.02
149	1st	Bath 1	B	Wall - Lower	Paneling	White	Intact	Negative	0.00 ± 0.02
150	1st	Bath 1	C	Wall - Lower	Paneling	White	Intact	Negative	0.00 ± 0.02
151	1st	Bath 1	D	Wall - Lower	Paneling	White	Intact	Negative	0.01 ± 0.05
152	1st	Bath 1	A	Wall - Upper	Paneling	White	Intact	Negative	0.26 ± 0.36
153	1st	Bath 1	B	Wall - Upper	Paneling	White	Intact	Negative	0.01 ± 0.04
154	1st	Bath 1	C	Wall - Upper	Paneling	White	Intact	Negative	0.07 ± 0.23
156	1st	Bath 1	D	Wall - Upper	Paneling	White	Intact	Negative	0.00 ± 0.02
157	1st	Bath 1	D	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
158	1st	Bath 1	D	Ceiling Trim	Wood	White	Intact	Negative	0.01 ± 0.04
159	1st	Bath 1	B	Pipe	Metal	White	Intact	Null	1.40 ± 0.40
160	1st	Bath 1	B	Pipe	Metal	White	Intact	Null	1.50 ± 0.90
161	1st	Pantry	D	Window Sill	Wood	Brown	Poor	Negative	0.01 ± 0.03

4 Robbins Court, Norwich CT 06360

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
162	1st	Pantry	D	Window Casing	Wood	Brown	Intact	Negative	0.02 ± 0.06
163	1st	Pantry	D	Window Sash Int.	Wood	Brown	Intact	Negative	0.02 ± 0.08
164	1st	Pantry	D	Window Well	Wood	White	Intact	Positive	17.00 ± 4.50
165	1st	Pantry	D	Window Blind Stop	Wood	White	Intact	Positive	27.00 ± 19.70
166	1st	Pantry	B	Opening Jamb	Wood	White	Intact	Negative	0.05 ± 0.16
167	1st	Pantry	B	Opening Casing	Wood	Brown	Intact	Negative	0.01 ± 0.02
168	1st	Pantry	C	Cabinet Door Lwr	Wood	Brown	Intact	Negative	0.02 ± 0.07
169	1st	Pantry	C	Cabinet Body	Wood	Brown	Intact	Negative	0.05 ± 0.12
170	1st	Pantry	A	Cabinet Body Up	Wood	Brown	Intact	Negative	0.02 ± 0.07
173	1st	Pantry	A	Cabinet Shelf	Wood	White	Fair	Negative	0.18 ± 0.11
174	1st	Pantry	A	Cabinet Wall	Plaster	White	Fair	Negative	0.14 ± 0.15
175	1st	Pantry	A	Cabinet Wall	Plaster	White	Fair	Negative	0.18 ± 0.08
176	1st	Pantry	B	Wall - Upper	Paneling	White	Fair	Negative	0.00 ± 0.02
177	1st	Pantry	D	Wall - Upper	Paneling	White	Intact	Negative	0.02 ± 0.08
178	1st	Pantry	D	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
179	1st	Pantry	D	Ceiling Trim	Wood	White	Intact	Negative	0.00 ± 0.02
180	1st	Kitchen	B	Window Sill	Wood	White	Intact	Null	0.30 ± 0.46
181	1st	Kitchen	B	Window Sill	Wood	White	Intact	Negative	0.05 ± 0.08
182	1st	Kitchen	B	Window Casing	Wood	White	Intact	Negative	0.50 ± 0.40
183	1st	Kitchen	B	Window Sash Int.	Wood	White	Intact	Negative	0.16 ± 0.19
184	1st	Kitchen	B	Window Sash Int.	Wood	White	Intact	Negative	0.30 ± 0.42
185	1st	Kitchen	C	Window Sill	Wood	White	Intact	Negative	0.60 ± 0.30
186	1st	Kitchen	C	Window Casing	Wood	White	Intact	Negative	0.70 ± 0.30
187	1st	Kitchen	C	Window Sash Int.	Wood	White	Intact	Negative	0.14 ± 0.27
188	1st	Kitchen	C	Window Sash Ext.	Wood	Black	Fair	Positive	2.50 ± 1.30
189	1st	Kitchen	C	Window Well	Wood	White	Intact	Positive	2.20 ± 0.80
190	1st	Kitchen	A	Opening Casing	Wood	White	Intact	Negative	0.18 ± 0.22
191	1st	Kitchen	A	Door	Wood	White	Intact	Negative	0.30 ± 0.50
192	1st	Kitchen	A	Door Jamb	Wood	White	Intact	Null	0.40 ± 0.70
193	1st	Kitchen	A	Door Jamb	Wood	White	Intact	Negative	0.27 ± 0.17
194	1st	Kitchen	A	Door Threshold	Wood	Brown	Intact	Negative	0.02 ± 0.10
195	1st	Kitchen	B	Door Rht	Wood	White	Intact	Negative	0.01 ± 0.04
196	1st	Kitchen	B	Door Jamb	Wood	White	Intact	Negative	0.50 ± 0.40
197	1st	Kitchen	B	Door Casing	Wood	White	Intact	Negative	0.40 ± 0.20
198	1st	Kitchen	D	Door	Wood	White	Intact	Negative	0.15 ± 0.21
199	1st	Kitchen	D	Door Jamb	Wood	White	Intact	Negative	0.01 ± 0.06
200	1st	Kitchen	D	Door Threshold	Wood	Gray	Fair	Negative	0.09 ± 0.09
201	1st	Kitchen	B	Door (to basement)	Wood	White	Intact	Null	0.50 ± 0.70
202	1st	Kitchen	B	Door (to basement)	Wood	White	Intact	Negative	0.15 ± 0.24
203	1st	Kitchen	B	Door Casing	Wood	White	Intact	Negative	0.28 ± 0.55
204	1st	Kitchen	C	Baseboard	Wood	White	Intact	Negative	0.00 ± 0.02
205	1st	Kitchen	C	Radiator	Metal	White	Intact	Negative	0.02 ± 0.07
206	1st	Kitchen	A	Chair Rail	Wood	White	Intact	Negative	0.00 ± 0.02
207	1st	Kitchen	C	Chair Rail	Wood	White	Intact	Negative	0.00 ± 0.02
209	1st	Kitchen	A	Wall - Lower	Paneling	White	Intact	Negative	0.00 ± 0.02
210	1st	Kitchen	B	Wall - Lower	Paneling	White	Intact	Negative	0.00 ± 0.02
211	1st	Kitchen	C	Wall - Lower	Paneling	White	Intact	Negative	0.00 ± 0.02
212	1st	Kitchen	D	Wall - Lower	Paneling	White	Intact	Negative	0.02 ± 0.07
213	1st	Kitchen	A	Wall - Upper	Plaster	Beige	Intact	Positive	4.00 ± 3.00
214	1st	Kitchen	B	Wall - Upper	Plaster	Beige	Intact	Positive	7.50 ± 4.30
215	1st	Kitchen	C	Wall - Upper	Plaster	Beige	Intact	Positive	5.40 ± 3.70
216	1st	Kitchen	D	Wall - Upper	Plaster	Beige	Intact	Positive	3.60 ± 2.50

4 Robbins Court, Norwich CT 06360

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
217	1st	Kitchen	D	Wall - Board	Wood	Beige	Intact	Positive	1.40 ± 0.40
218	1st	Kitchen	D	Pipe	Metal	Beige	Intact	Positive	2.60 ± 1.20
219	1st	Kitchen	A	Ceiling	Drywall	White	Intact	Negative	0.04 ± 0.13
220	1st	Kitchen	A	Ceiling Trim	Wood	White	Intact	Negative	0.01 ± 0.04
221	1st	Kitchen	A	Ceiling Trim	Wood	White	Intact	Negative	0.50 ± 0.50
222	1st	Kitchen	C	Ceiling Beam	Wood	White	Intact	Negative	0.00 ± 0.02
223	1st	Stairwell	B	Stair Stringer	Wood	White	Intact	Negative	0.11 ± 0.15
224	1st	Stairwell	B	Stair Stringer	Wood	White	Intact	Negative	0.16 ± 0.24
225	1st	Stairwell	C	Stair Riser	Wood	White	Intact	Negative	0.23 ± 0.36
226	1st	Stairwell	C	Stair Riser	Wood	White	Intact	Negative	0.25 ± 0.32
227	1st	Stairwell	D	Stair Tread	Wood	Brown	Intact	Negative	0.00 ± 0.02
228	1st	Stairwell	B	Stair Tread	Wood	Brown	Intact	Negative	0.00 ± 0.02
229	1st	Stairwell	D	Stair Baluster	Wood	Brown	Intact	Negative	0.01 ± 0.02
230	1st	Stairwell	D	Stair Railing	Wood	Brown	Intact	Negative	0.00 ± 0.02
231	1st	Stairwell	D	Stair Newel Post	Wood	Brown	Intact	Negative	0.08 ± 0.18
232	1st	Stairwell	D	Stair Walkcasing	Wood	White	Intact	Negative	0.04 ± 0.08
233	1st	Stairwell	B	Wall	Plaster	Beige	Intact	Positive	24.50 ± 17.40
234	2nd	Stairwell	A	Wall	Plaster	Beige	Intact	Positive	21.10 ± 5.30
235	2nd	Stairwell	D	Wall	Plaster	Beige	Intact	Positive	24.00 ± 5.70
236	2nd	Stairwell	B	Window Sill	Wood	White	Intact	Negative	0.24 ± 0.34
237	2nd	Stairwell	B	Window Casing	Wood	White	Intact	Negative	0.11 ± 0.15
238	2nd	Stairwell	B	Window Sash Int.	Wood	White	Intact	Positive	1.80 ± 0.80
239	2nd	Hall	A	Door	Wood	White	Intact	Positive	2.00 ± 0.70
240	2nd	Hall	A	Door Jamb	Wood	White	Intact	Positive	2.00 ± 0.70
241	2nd	Hall	B	Closet Door	Wood	White	Intact	Negative	0.02 ± 0.04
242	2nd	Hall	B	Closet Door	Wood	White	Intact	Negative	0.05 ± 0.10
243	2nd	Hall	B	Closet Casing	Wood	White	Intact	Negative	0.05 ± 0.07
244	2nd	Hall	B	Closet Shelf	Wood	Wallpaper	Intact	Negative	0.11 ± 0.16
245	2nd	Hall	B	Closet Cleat	Wood	Beige	Intact	Negative	0.07 ± 0.15
246	2nd	Hall	B	Closet Baseboard	Wood	Beige	Intact	Negative	0.19 ± 0.20
247	2nd	Hall	B	Closet Wall	Plaster	Beige	Intact	Negative	0.03 ± 0.03
248	2nd	Hall	B	Door	Wood	White	Intact	Negative	0.10 ± 0.12
249	2nd	Hall	B	Door Casing	Wood	White	Intact	Negative	0.13 ± 0.14
250	2nd	Hall	D	Door	Wood	White	Intact	Positive	2.90 ± 1.60
251	2nd	Hall	D	Door Jamb	Wood	White	Intact	Positive	3.20 ± 1.50
252	2nd	Hall	D	Door Casing	Wood	White	Intact	Positive	16.90 ± 11.60
253	2nd	Hall	A	Door Casing	Wood	White	Intact	Positive	2.80 ± 1.20
254	2nd	Hall	C	Opening Jamb	Wood	White	Intact	Negative	0.07 ± 0.12
255	2nd	Hall	B	Baseboard	Wood	White	Intact	Negative	0.21 ± 0.25
256	2nd	Hall	D	Baseboard	Wood	White	Intact	Negative	0.16 ± 0.20
257	2nd	Hall	B	Wall	Plaster	Beige	Intact	Positive	23.30 ± 14.60
258	2nd	Hall	A	Wall	Plaster	Beige	Intact	Positive	21.70 ± 14.10
259	2nd	Hall	D	Wall	Drywall	Beige	Intact	Positive	29.20 ± 20.10
260	2nd	Hall	A	Ceiling	Plaster	White	Intact	Negative	0.00 ± 0.02
261	2nd	Room 4	A	Window Sill Rht	Wood	White	Intact	Negative	0.09 ± 0.21
262	2nd	Room 4	A	Window Casing	Wood	White	Intact	Negative	0.20 ± 0.34
263	2nd	Room 4	A	Window Sash Int.	Wood	White	Intact	Positive	1.00 ± 0.10
264	2nd	Room 4	A	Window Sill Lft	Wood	White	Intact	Negative	0.18 ± 0.15
265	2nd	Room 4	A	Window Casing	Wood	White	Intact	Negative	0.26 ± 0.35
266	2nd	Room 4	A	Window Sash Int.	Wood	White	Intact	Negative	0.60 ± 0.20
267	2nd	Room 4	A	Window Sash Int.	Wood	White	Intact	Negative	0.60 ± 0.30
268	2nd	Room 4	A	Window Well	Wood	White	Poor	Positive	14.70 ± 10.50

4 Robbins Court, Norwich CT 06360

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
269	2nd	Room 4	C	Door	Wood	White	Poor	Negative	0.14 ± 0.19
270	2nd	Room 4	C	Door	Wood	White	Poor	Negative	0.11 ± 0.15
271	2nd	Room 4	C	Door Jamb	Wood	White	Intact	Negative	0.10 ± 0.12
272	2nd	Room 4	C	Door Casing	Wood	White	Fair	Negative	0.14 ± 0.08
273	2nd	Room 4	B	Closet Door	Wood	White	Intact	Negative	0.11 ± 0.16
274	2nd	Room 4	B	Closet Jamb	Wood	White	Intact	Negative	0.20 ± 0.25
275	2nd	Room 4	B	Door Threshold	Wood	Brown	Intact	Negative	0.01 ± 0.03
276	2nd	Room 4	B	Closet Shelf	Wood	White	Intact	Positive	2.00 ± 0.80
277	2nd	Room 4	B	Closet Shelf C	Wood	Bone	Intact	Negative	0.50 ± 0.30
278	2nd	Room 4	B	Closet Cleat	Wood	Bone	Intact	Positive	1.50 ± 0.30
279	2nd	Room 4	B	Closet Wall	Plaster	Bone	Intact	Positive	8.10 ± 7.00
280	2nd	Room 4	B	Closet Baseboard	Plaster	Bone	Intact	Negative	0.40 ± 0.30
281	2nd	Room 4	B	Closet Wall	Plaster	Bone	Intact	Positive	9.60 ± 6.30
282	2nd	Room 4	D	Closet Door	Wood	White	Intact	Negative	0.05 ± 0.07
283	2nd	Room 4	D	Closet Jamb	Wood	White	Intact	Negative	0.20 ± 0.23
284	2nd	Room 4	D	Closet Threshold	Wood	Brown	Intact	Negative	0.03 ± 0.10
285	2nd	Room 4	D	Closet Shelf	Wood	Bone	Intact	Positive	3.00 ± 1.70
287	2nd	Room 4	D	Closet Cleat	Wood	Bone	Intact	Positive	5.90 ± 3.90
288	2nd	Room 4	D	Closet Baseboard	Wood	Bone	Intact	Positive	5.60 ± 3.60
289	2nd	Room 4	A	Counter Top	Wood	Bone	Intact	Positive	4.70 ± 2.70
290	2nd	Room 4	D	Cabinet Drawer	Wood	Bone	Intact	Positive	3.50 ± 1.90
291	2nd	Room 4	D	Closet Wall	Plaster	White	Intact	Null	1.10 ± 0.10
292	2nd	Room 4	D	Baseboard	Wood	White	Intact	Negative	0.06 ± 0.19
293	2nd	Room 4	A	Radiator	Metal	White	Intact	Negative	0.03 ± 0.08
294	2nd	Room 4	A	Wall	Plaster	Green	Intact	Positive	13.40 ± 10.60
295	2nd	Room 4	B	Wall	Plaster	Green	Intact	Positive	13.80 ± 4.10
296	2nd	Room 4	C	Wall	Plaster	Green	Intact	Positive	12.20 ± 8.20
297	2nd	Room 4	D	Wall	Plaster	Green	Intact	Positive	12.90 ± 5.90
298	2nd	Room 4	C	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
299	2nd	Room 4	C	Floor	Wood	Brown	Intact	Negative	0.01 ± 0.03
300	2nd	Room 5	B	Window Sill	Wood	White	Intact	Positive	4.50 ± 2.90
301	2nd	Room 5	B	Window Sill	Wood	White	Intact	Positive	7.00 ± 5.90
302	2nd	Room 5	B	Window Casing	Wood	White	Intact	Positive	6.90 ± 4.50
303	2nd	Room 5	B	Window Sash Int.	Wood	White	Intact	Negative	0.40 ± 0.30
304	2nd	Room 5	B	Window Sash Int.	Wood	White	Intact	Negative	0.23 ± 0.20
305	2nd	Room 5	B	Window Stop	Wood	White	Peeling	Positive	10.50 ± 7.50
306	2nd	Room 5	D-A	Door	Wood	White	Intact	Positive	5.40 ± 3.20
307	2nd	Room 5	D-A	Door Casing	Wood	White	Intact	Positive	2.00 ± 1.00
308	2nd	Room 5	A	Closet Door	Wood	White	Intact	Positive	7.40 ± 4.90
309	2nd	Room 5	A	Closet Jamb	Wood	White	Intact	Positive	5.20 ± 3.10
310	2nd	Room 5	A	Closet Threshold	Wood	Varnish	Intact	Negative	0.01 ± 0.03
311	2nd	Room 5	A	Closet Shelf	Wood	Bone	Intact	Negative	0.30 ± 0.36
312	2nd	Room 5	A	Closet Cleat	Wood	Bone	Intact	Negative	0.18 ± 0.19
313	2nd	Room 5	A	Closet Ceiling	Wood	Bone	Intact	Positive	4.60 ± 3.00
314	2nd	Room 5	A	Closet Wall	Plaster	Bone	Intact	Null	0.80 ± 0.20
315	2nd	Room 5	A	Closet Wall	Plaster	Bone	Intact	Positive	3.80 ± 0.90
316	2nd	Room 5	C	Baseboard	Wood	White	Intact	Positive	4.20 ± 1.00
317	2nd	Room 5	A	Wall	Plaster	Pink	Intact	Positive	17.80 ± 12.30
318	2nd	Room 5	B	Wall	Plaster	Pink	Intact	Positive	19.40 ± 13.20
319	2nd	Room 5	C	Wall	Plaster	Pink	Intact	Positive	29.10 ± 20.40
320	2nd	Room 5	D	Wall	Plaster	Pink	Intact	Positive	19.30 ± 13.10
321	2nd	Room 5	D	Ceiling	Plaster	White	Intact	Positive	3.40 ± 2.00

4 Robbins Court, Norwich CT 06360

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
322	2nd	Room 5	D	Ceiling Trim	Wood	White	Intact	Positive	21.00 ± 13.00
323	2nd	Room 5	C	Window Sill	Wood	White	Poor	Positive	7.80 ± 4.10
324	2nd	Room 5	C	Window Casing	Wood	White	Intact	Positive	3.80 ± 2.20
325	2nd	Room 5	C	Window Sash Int.	Wood	White	Peeling	Positive	5.00 ± 3.40
326	2nd	Room 5	C	Window Screen	Wood	White	Intact	Negative	0.30 ± 0.29
327	2nd	Room 5	C	Window Screen	Wood	White	Intact	Positive	4.60 ± 2.70
328	2nd	Room 5	D	Floor	Wood	Varnish	Intact	Negative	0.07 ± 0.10
329	2nd	Room 6	D	Window Sill	Wood	White	Intact	Positive	6.10 ± 3.50
330	2nd	Room 6	D	Window Casing	Wood	White	Intact	Positive	4.10 ± 2.50
331	2nd	Room 6	D	Window Sash Int. 1	Wood	White	Intact	Positive	1.50 ± 0.50
332	2nd	Room 6	D	Window Sash Int. 2	Wood	White	Intact	Negative	0.19 ± 0.21
333	2nd	Room 6	D	Window Sash Int. 2	Wood	White	Intact	Negative	0.06 ± 0.08
334	2nd	Room 6	B	Door	Wood	White	Poor	Positive	3.10 ± 1.10
335	2nd	Room 6	B	Door Jamb	Wood	White	Intact	Positive	1.50 ± 0.40
336	2nd	Room 6	A	Closet Door	Wood	White	Intact	Positive	3.80 ± 2.30
337	2nd	Room 6	A	Closet Jamb	Wood	White	Intact	Positive	3.70 ± 2.10
338	2nd	Room 6	A	Closet Shelf	Wood	Blue	Intact	Negative	0.06 ± 0.10
339	2nd	Room 6	A	Closet Shelf	Wood	Blue	Intact	Negative	0.03 ± 0.05
340	2nd	Room 6	A	Closet Cleat	Wood	Blue	Intact	Null	1.10 ± 0.80
341	2nd	Room 6	A	Closet Cleat	Wood	Blue	Intact	Null	0.90 ± 0.20
342	2nd	Room 6	A	Closet Cleat	Wood	Blue	Intact	Negative	0.60 ± 0.30
343	2nd	Room 6	A	Closet Baseboard	Wood	Blue	Intact	Negative	0.25 ± 0.26
344	2nd	Room 6	A	Closet Shelf Lwr	Wood	Blue	Intact	Negative	0.03 ± 0.06
345	2nd	Room 6	A	Closet Wall	Plaster	Blue	Intact	Positive	1.80 ± 0.70
346	2nd	Room 6	A	Door (to Attic)	Wood	White	Intact	Positive	4.50 ± 2.70
347	2nd	Room 6	C	Baseboard	Wood	White	Poor	Positive	1.50 ± 0.50
348	2nd	Room 6	C	Access Panel	Wood	White	Poor	Positive	2.50 ± 1.10
349	2nd	Room 6	C	Access Panel Trim	Wood	White	Intact	Positive	3.10 ± 1.40
350	2nd	Room 6	D	Radiator	Metal	White	Intact	Negative	0.01 ± 0.02
351	2nd	Room 6	A	Wall	Plaster	Green	Intact	Positive	18.40 ± 12.50
352	2nd	Room 6	B	Wall	Plaster	Green	Intact	Positive	19.60 ± 13.20
353	2nd	Room 6	C	Wall	Plaster	Green	Intact	Positive	6.00 ± 3.40
354	2nd	Room 6	D	Wall	Plaster	Green	Intact	Positive	5.80 ± 3.40
355	2nd	Room 6	A	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
356	2nd	Room 6	B	Floor	Wood	Varnish	Intact	Negative	0.04 ± 0.13
357	2nd	Room 7	B	Window Sill	Wood	White	Intact	Negative	0.40 ± 0.20
358	2nd	Room 7	B	Window Casing	Wood	White	Intact	Positive	5.50 ± 2.60
359	2nd	Room 7	B	Window Sash Int.	Wood	White	Intact	Positive	6.60 ± 4.90
360	2nd	Room 7	C	Window Sill	Wood	White	Peeling	Positive	6.50 ± 3.50
361	2nd	Room 7	C	Window Casing	Wood	White	Intact	Positive	4.40 ± 2.30
362	2nd	Room 7	C	Window Sash Int.	Wood	White	Intact	Positive	4.00 ± 1.90
363	2nd	Room 7	A	Door	Wood	White	Intact	Negative	0.17 ± 0.21
364	2nd	Room 7	A	Door	Wood	White	Intact	Negative	0.10 ± 0.13
365	2nd	Room 7	A	Door Jamb	Wood	White	Intact	Positive	4.60 ± 2.90
366	2nd	Room 7	D	Closet Door	Wood	White	Intact	Positive	3.40 ± 2.00
367	2nd	Room 7	D	Closet Casing	Wood	White	Intact	Positive	3.70 ± 2.20
368	2nd	Room 7	D	Closet Shelf	Wood	Green	Intact	Negative	0.25 ± 0.30
369	2nd	Room 7	D	Closet Cleat	Wood	Green	Intact	Negative	0.70 ± 0.20
370	2nd	Room 7	D	Closet Baseboard	Wood	Green	Intact	Negative	0.05 ± 0.09
371	2nd	Room 7	D	Closet Wall	Plaster	Green	Intact	Negative	0.18 ± 0.06
372	2nd	Room 7	C	Radiator	Metal	White	Intact	Negative	0.17 ± 0.21
373	2nd	Room 7	C	Baseboard	Wood	White	Intact	Positive	2.80 ± 1.20

4 Robbins Court, Norwich CT 06360

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
374	2nd	Room 7	A	Wall	Plaster	Blue	Intact	Null	0.30 ± 0.16
375	2nd	Room 7	A	Wall	Plaster	Blue	Intact	Negative	0.26 ± 0.60
376	2nd	Room 7	B	Wall	Plaster	Blue	Intact	Null	0.30 ± 0.10
377	2nd	Room 7	C	Wall	Plaster	Blue	Intact	Negative	0.13 ± 0.78
378	2nd	Room 7	D	Wall	Plaster	Blue	Intact	Negative	0.60 ± 0.40
379	2nd	Room 7	D	Chimney	Plaster	Blue	Intact	Null	0.05 ± 0.10
380	2nd	Room 7	D	Chimney	Plaster	Blue	Intact	Null	0.80 ± 0.30
381	2nd	Room 7	B	Wall	Plaster	Blue	Intact	Negative	0.27 ± 0.19
382	2nd	Room 7	A	Ceiling	Plaster	White	Intact	Positive	2.50 ± 0.90
383	2nd	Room 7	A	Floor	Wood	Varnish	Intact	Negative	0.00 ± 0.02
384	2nd	Hall 2	B	Window Sill	Wood	White	Intact	Negative	0.40 ± 0.40
385	2nd	Hall 2	B	Window Casing	Wood	White	Intact	Negative	0.40 ± 0.30
386	2nd	Hall 2	B	Window Sash Int.	Wood	White	Intact	Negative	0.40 ± 0.30
387	2nd	Hall 2	B	Window Sash Int.	Wood	White	Intact	Negative	0.06 ± 0.09
388	2nd	Hall 2	A	Opening Casing	Wood	White	Intact	Negative	0.07 ± 0.12
389	2nd	Hall 2	A	Opening Jamb	Wood	White	Intact	Negative	0.04 ± 0.07
390	2nd	Hall 2	C	Door	Wood	White	Intact	Negative	0.11 ± 0.15
391	2nd	Hall 2	C	Door Casing	Wood	White	Intact	Negative	0.05 ± 0.09
392	2nd	Hall 2	C	Door Jamb	Wood	White	Intact	Negative	0.03 ± 0.06
393	2nd	Hall 2	D	Door	Wood	White	Intact	Negative	0.09 ± 0.11
394	2nd	Hall 2	D	Door Casing	Wood	White	Intact	Negative	0.08 ± 0.18
395	2nd	Hall 2	D	Door Threshold	Wood	Brown	Intact	Negative	0.01 ± 0.04
396	2nd	Hall 2	A	Baseboard	Wood	White	Intact	Negative	0.04 ± 0.07
397	2nd	Hall 2	A	Wall	Plaster	Bone	Intact	Null	0.40 ± 0.10
398	2nd	Hall 2	A	Wall	Plaster	Bone	Intact	Negative	0.60 ± 0.40
399	2nd	Hall 2	B	Wall	Plaster	Bone	Intact	Null	0.27 ± 0.12
400	2nd	Hall 2	C	Wall	Plaster	Bone	Intact	Negative	0.60 ± 0.40
401	2nd	Hall 2	B	Ceiling	Drywall	White	Intact	Negative	0.00 ± 0.02
402	2nd	Hall 2	D	Floor	Wood	Brown	Intact	Negative	0.02 ± 0.04
403	2nd	Bath 2	D	Window Sill	Wood	White	Fair	Negative	0.17 ± 0.18
404	2nd	Bath 2	D	Window Casing	Wood	White	Intact	Negative	0.08 ± 0.11
405	2nd	Bath 2	D	Window Sash Int.	Wood	White	Intact	Negative	0.12 ± 0.13
406	2nd	Bath 2	D	Window Sash Int.	Wood	White	Intact	Negative	0.14 ± 0.15
407	2nd	Bath 2	D	Window Well	Wood	White	Fair	Positive	15.70 ± 4.40
408	2nd	Bath 2	B	Door	Wood	White	Fair	Negative	0.10 ± 0.11
409	2nd	Bath 2	B	Door Jamb	Wood	White	Fair	Negative	0.07 ± 0.10
410	2nd	Bath 2	B	Door Casing	Wood	White	Fair	Negative	0.01 ± 0.04
411	2nd	Bath 2	A	Wall - Upper	Plaster	White	Intact	Positive	1.50 ± 0.40
412	2nd	Bath 2	B	Wall - Upper	Plaster	White	Peeling	Null	0.40 ± 0.10
413	2nd	Bath 2	C	Wall - Upper	Plaster	Off-White	Intact	Null	0.60 ± 0.10
414	2nd	Bath 2	C	Wall - Upper	Plaster	Off-White	Intact	Negative	0.30 ± 0.06
415	2nd	Bath 2	D	Wall - Upper	Plaster	Off-White	Intact	Negative	0.50 ± 0.10
416	2nd	Bath 2	A	Ceiling	Plaster	White	Intact	Negative	0.03 ± 0.03
417	2nd	Bath 2	A	Wall - Upper	Plaster	Off-White	Intact	Null	0.40 ± 0.10
418	2nd	Bath 2	D	Radiator	Metal	White	Fair	Negative	0.00 ± 0.02
419	2nd	Attic Stairs	C	Door	Wood	White	Intact	Positive	2.20 ± 0.90
420	2nd	Attic Stairs	C	Door Casing	Wood	White	Poor	Positive	3.30 ± 1.70
421	2nd	Attic Stairs	A	Stair Tread	Wood	Beige	Intact	Positive	1.00 ± 0.10
422	2nd	Attic Stairs	C	Stair Tread	Wood	Beige	Intact	Positive	1.50 ± 0.50
423	2nd	Attic Stairs	B	Stair Riser	Wood	Beige	Intact	Negative	0.60 ± 0.20
424	2nd	Attic Stairs	A	Wall	Plaster	White	Intact	Positive	10.60 ± 9.60
425	2nd	Attic Stairs	C	Wall	Plaster	White	Intact	Positive	9.30 ± 6.60

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
426	1st	Base. Stairs	D	Door	Wood	Beige	Intact	Negative	0.24 ± 0.19
427	1st	Base. Stairs	D	Door Casing	Wood	White	Intact	Negative	0.19 ± 0.18
428	1st	Base. Stairs	D	Door Threshold	Wood	Gray	Fair	Negative	0.10 ± 0.13
429	1st	Base. Stairs	B	Shelf	Wood	Bone	Fair	Negative	0.17 ± 0.15
430	1st	Base. Stairs	C	Stair Railing	Wood	Brown	Intact	Negative	0.02 ± 0.05
431	1st	Base. Stairs	A	Wall	Plaster	Brown	Intact	Negative	0.15 ± 0.13
432	1st	Base. Stairs	A	Wall	Wood	Brown	Intact	Negative	0.11 ± 0.11
433	1st	Base. Stairs	B	Wall	Plaster	Bone	Intact	Negative	0.10 ± 0.05
434	1st	Base. Stairs	D	Wall	Plaster	Bone	Intact	Negative	0.21 ± 0.08
436	1st	Base. Stairs	A	Stair Tread	Wood	Gray	Intact	Negative	0.70 ± 0.20
437	1st	Base. Stairs	D	Stair Riser	Wood	Gray	Intact	Negative	0.60 ± 0.30
438	1st	Base. Stairs	D	Stair Riser	Wood	Gray	Intact	Negative	0.50 ± 0.30
439	Base.	Base. Stairs	C	Wall - Lower	Brick	Bone	Intact	Negative	0.09 ± 0.05
440	Base.	Base. Stairs	C	Wall - Ledge	Wood	Orange	Intact	Positive	4.20 ± 2.50
441	Base.	Base. Stairs	C	Stair Newel Post	Wood	Beige	Intact	Null	0.90 ± 0.20
442	Base.	Basement	B	Cell. Window Sash 1	Wood	Beige	Intact	Positive	9.70 ± 8.10
443	Base.	Basement	B	Cell. Window Sash 2	Wood	Beige	Intact	Positive	12.60 ± 9.50
444	Base.	Basement	B	Cell. Window Sash 3	Wood	Beige	Intact	Positive	11.00 ± 7.60
445	Base.	Basement	C	Cell. Window Sash	Wood	Beige	Intact	Positive	11.80 ± 7.80
446	Base.	Basement	D	Cell. Window Sash 1	Wood	Beige	Intact	Positive	12.50 ± 9.20
447	Base.	Basement	D	Cell. Window Sash 2	Wood	Beige	Intact	Positive	12.30 ± 9.30
448		Exterior	A	Door	Wood	Brown	Intact	Negative	0.04 ± 0.05
449		Exterior	A	Door	Wood	Brown	Intact	Negative	0.07 ± 0.08
450		Exterior	A	Door Jamb	Wood	White	Intact	Positive	28.30 ± 19.50
451		Exterior	A	Door Threshold	Wood	Gray	Intact	Positive	16.40 ± 11.60
452		Exterior	A	Window Sash Ext.	Wood	Black	Intact	Positive	6.90 ± 4.20
453		Exterior	A	Window Blind Stop	Wood	White	Intact	Positive	32.40 ± 22.10
454		Exterior	A	Porch Rail Cap	Wood	White	Poor	Negative	0.24 ± 0.26
455		Exterior	A	Porch Rail Cap	Wood	White	Poor	Negative	0.30 ± 0.32
456		Exterior	B	Porch Rail Cap	Wood	White	Intact	Negative	0.21 ± 0.21
457		Exterior	B	Wall - Lower	Wood	White	Intact	Negative	0.50 ± 0.40
458		Exterior	B	Wall - Lower	Wood	White	Intact	Negative	0.40 ± 0.40
459		Exterior	A	Wall - Lower	Wood	White	Intact	Negative	0.30 ± 0.31
460		Exterior	A	Porch Column	Wood	White	Intact	Positive	29.20 ± 28.00
461		Exterior	B	Porch Column	Wood	White	Poor	Positive	29.90 ± 20.60
462		Exterior	B	Porch Baluster Up	Wood	White	Intact	Positive	36.40 ± 22.90
463		Exterior	A	Porch Upper Trim	Wood	White	Intact	Positive	30.70 ± 20.70
464		Exterior	A	Porch Ceiling	Wood	Brown	Intact	Negative	0.50 ± 0.20
465		Exterior	A	Porch Floor	Wood	Brown	Peeling	Positive	4.90 ± 3.20
466		Exterior	A	Porch Floor	Wood	Brown	Peeling	Positive	16.90 ± 12.10
467		Exterior	A	Porch Step	Concrete	Black	Intact	Negative	0.03 ± 0.02
468		Exterior	A	Porch Lvr Trim	Wood	Green	Peeling	Positive	3.90 ± 2.20
469		Exterior	A	Porch Lattice	Wood	Green	Intact	Negative	0.00 ± 0.02
470		Exterior	B	Porch Lattice	Wood	Black	Intact	Negative	0.01 ± 0.03
471		Exterior	B	Window Sash Ext.	Wood	Black	Intact	Positive	13.70 ± 11.80
472		Exterior	B	Window Sash Ext.	Wood	White	Intact	Positive	7.60 ± 4.00
473		Exterior	B	Ext. Foundation Rht	Brick	Black	Peeling	Null	0.70 ± 0.10
474		Exterior	B	Ext. Foundation Rht	Brick	Black	Peeling	Positive	2.70 ± 1.40
475		Exterior	B	Cell. Window Sill	Wood	Black	Peeling	Positive	7.40 ± 4.20
476		Exterior	B	Cell. Window Screen	Wood	Black	Fair	Positive	2.10 ± 0.90
477		Exterior	B	Door	Wood	Black	Fair	Positive	2.10 ± 1.00
478		Exterior	B	Door	Wood	Black	Fair	Positive	1.50 ± 0.40

Index	FL	ROOM	SIDE	COMPONENT	SUBSTRATE	COLOR	CONDITION	Results	PbC
479		Exterior	B	Door Jamb	Wood	White	Intact	Positive	36.90 ± 23.60
480		Exterior	B	Door Threshold	Wood	Gray	Intact	Positive	4.20 ± 2.20
481		Exterior	B	Landing Railing	Wood	White	Intact	Negative	0.06 ± 0.06
482		Exterior	B	Landing Floor	Wood	Gray	Intact	Negative	0.03 ± 0.05
483		Exterior	B	Landing Step	Wood	Gray	Intact	Negative	0.05 ± 0.06
484		Exterior	B	Overhang Bracket	Wood	White	Fair	Positive	33.50 ± 22.40
485		Exterior	B	Overhang Ceiling	Wood	White	Intact	Positive	26.50 ± 18.00
486		Exterior	C	Storm Door	Wood	Black	Intact	Positive	3.80 ± 2.00
487		Exterior	C	Door Threshold	Wood	Gray	Poor	Negative	0.60 ± 0.30
488		Exterior	C	Overhang Ceiling	Wood	White	Intact	Positive	24.00 ± 17.30
490		Exterior	C	Ext. Foundation	Brick	Black	Peding	Negative	0.08 ± 0.04
491		Exterior	C	Ext. Foundation	Brick	Black	Peding	Positive	1.40 ± 0.30
492		Exterior	C	Cell. Window Sill	Wood	Black	Intact	Negative	0.01 ± 0.03
493		Exterior	D	Cell. Window Sill	Wood	Black	Intact	Negative	0.01 ± 0.03
494		Exterior	D	Cell. Wind. Frame	Wood	Black	Peding	Positive	35.10 ± 22.80
495		Exterior	D	Cell. Window Sill Rht	Wood	Black	Damaged	Negative	0.05 ± 0.08
496		Exterior	D	Cell. Window Sill Rht	Wood	Black	Damaged	Negative	0.04 ± 0.06
497		Exterior	D	Ext. Foundation	Brick	Black	Peding	Negative	0.15 ± 0.05
507				Calibration- Surface			1.53mg/cm²	Positive	1.50 ± 0.10
508				Calibration- Buried			1.04mg/cm²	Positive	1.10 ± 0.10
509				Calibration- Buried			1.04mg/cm²	Positive	1.20 ± 0.10
510				Calibration- Buried			1.04mg/cm²	Positive	1.10 ± 0.10
511				Calibration- Buried			0.01mg/cm²	Negative	0.00 ± 0.02



Environmental Hazards Services, L.L.C.

7469 Whitepine Rd

Richmond, VA 23237

Telephone: 800.347.4010

Lead Dust Wipe Analysis Report

Report Number: 18-11-00360

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

Received Date: 11/02/2018

Analyzed Date: 11/07/2018

Reported Date: 11/07/2018

Project/Test Address: 18-0309; Norwich Pb; Reynolds Assessment Tests; 4 Robbins Court; Norwich, CT 06360

Collection Date: 10/30/2018

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
18-11-00360-001	DW-40	C SIDE VINYL KITCHEN	FL	17.8	1.00	17.8	
18-11-00360-002	DW-41	C SIDE WOOD KITCHEN	SL	81.1	0.611	133	
18-11-00360-003	DW-42	C SIDE WOOD ROOM 4	FL	<5.00	1.00	<5.00	
18-11-00360-004	DW-43	A SIDE RIGHT WOOD ROOM 4	SL	85.2	0.611	139	
18-11-00360-005	DW-44	B SIDE WOOD ROOM 5	FL	14.5	1.00	14.5	
18-11-00360-006	DW-45	B SIDE WOOD ROOM 5	SL	2290	0.611	3740	

Environmental Hazards Services, L.L.C

Client Number: 07-1566
Project/Test Address: 18-0309; Norwich Pb; Reynolds Assessment Tests; 4
 Robbins Court; Norwich, CT 06360

Report Number: 18-11-00360

Lab Sample Number	Client Sample Number	Collection Location	Surface	Total Pb (ug)	Wipe Area (ft ²)	Concentration (ug/ft ²)	Narrative ID
-------------------	----------------------	---------------------	---------	---------------	------------------------------	-------------------------------------	--------------

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

18-11-00360



Due Date:
11/07/2018
(Wednesday)
AE

CHAIN OF CUSTODY FORM

Date: October 30, 2018
Company Name: CT Lead Paint Solutions, LLC
Address: 1245 Hebron Ave.
City, State, Zip: Glastonbury, CT 06033
Phone: 860-633-3330
Project Name: Norwich Pb - Reynolds
Project Address: 4 Robbins Court, Norwich, CT 06360
Project Number: 18-0309

E-mail to: andrew@ctleadpaint.com
Dates of Collections: October 30, 2018
Assessment Tests

HT

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

Lead Wipes Used ASTM E 1792 **Lead in Dust**

Sample #	Area size/ Sq. inch	Location Sample and substrate	Room or Area
DW-40	144.00	Floor, C side, vinyl	Kitchen
DW-41	88.00	Window sill, C side, wood	Kitchen
DW-42	144.00	Floor, C side, wood	Room 4
DW-43	88.00	Window sill, A side, right, wood	Room 4
DW-44	144.00	Floor, B side, wood	Room 5
DW-45	88.00	Window sill, B side, wood	Room 5
Collected	Andrew Miller	Signature <i>Andrew Miller</i>	Date: Oct. 30, 2018
mailed	Andrew Miller	Signature <i>Andrew Miller</i>	Date: Oct. 31, 2018
Received			Date:



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

Lead in Soil Analysis Report

Report Number: 18-11-00359

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

Received Date: 11/02/2018
Analyzed Date: 11/06/2018
Reported Date: 11/06/2018

Project/Test Address: 18-0309; Norwich Pb; Reynolds Assessment Tests; 4 Robbins Court, Norwich, CT 06360
Collection Date: 10/30/2018

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
18-11-00359-001	SOIL-2	B SIDES	320	

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	

18-11-00359

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



Due Date:
 11/07/2018
 (Wednesday)
 AE

CHAIN OF CUSTODY FORM

HT

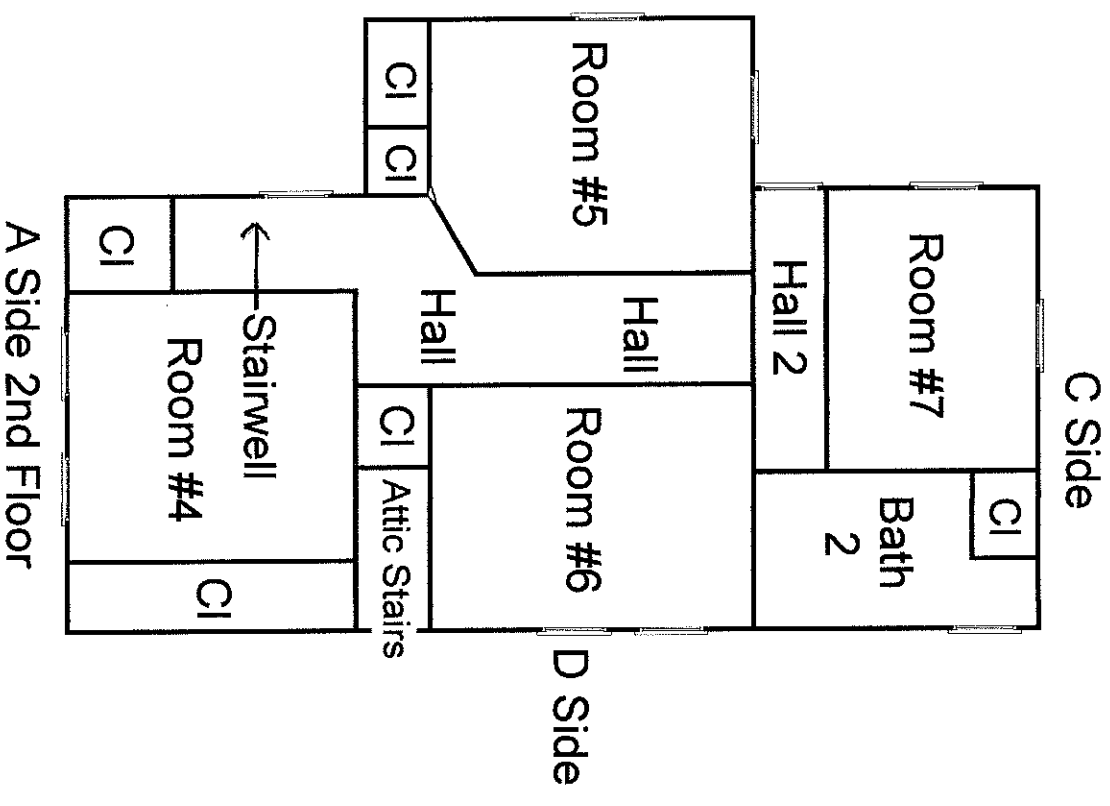
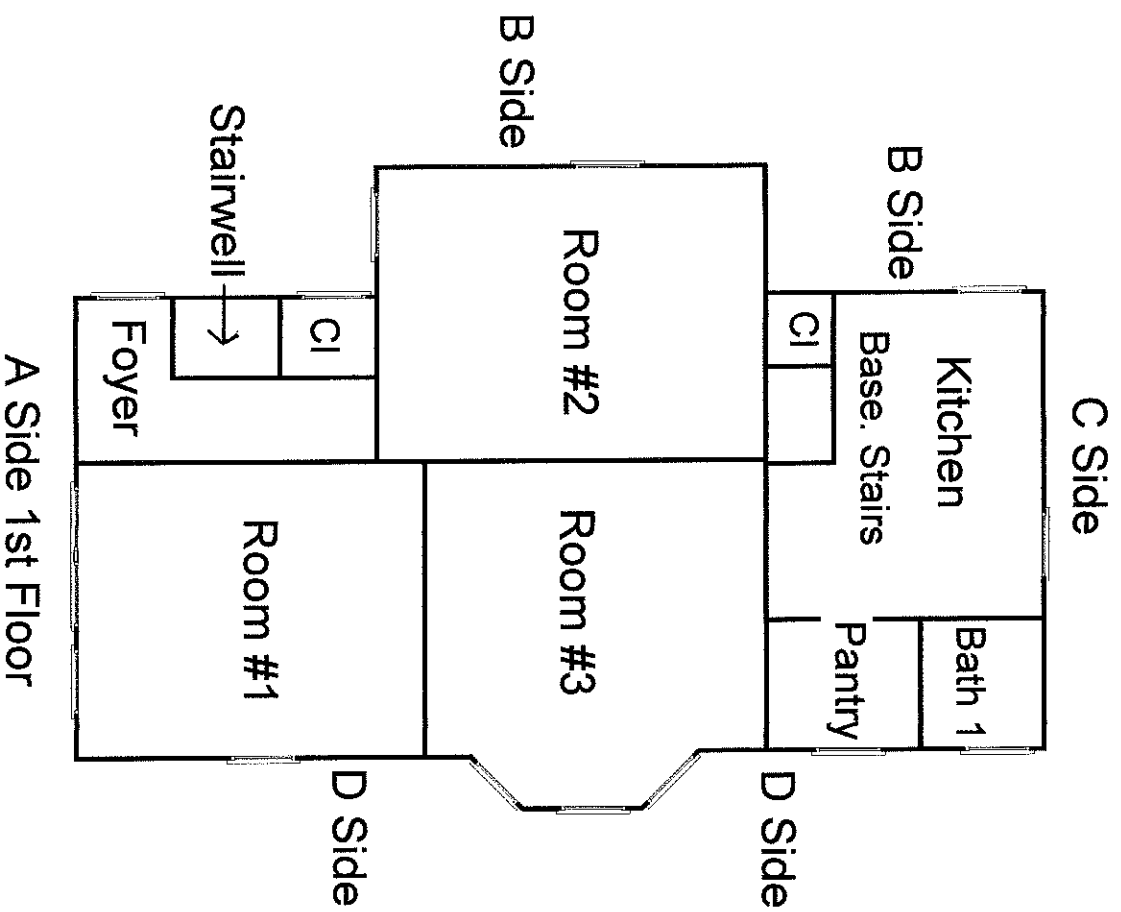
Date: October 30, 2018
 Company Name: CT Lead Paint Solutions, LLC
 Address: 1245 Hebron Ave.
 City, State, Zip: Glastonbury, CT 06033
 Phone: 860-633-3330
 Project Name: Norwich Pb - Reynolds
 Project Address: 4 Robbins Court, Norwich, CT 06360
 Project Number: 18-0309

E-mail to: andrew@ctleadpaint.com
 Dates of Collections: October 30, 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
Soil - 2	Collected from side yard	B sides	8 composite sample	
		Lab, please mix sample		
Collected	Andrew Miller	Sign. <i>Andrew Miller</i>	Date: Oct. 30, 2018	
Mailed by	Andrew Miller	Sign. <i>Andrew Miller</i>	Date: Oct. 31, 2018	
Received by	<i>LEZEL</i>	Sign. <i>Sty B</i>	Date: 11/2/18 3	



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 4 Robbins Court Norwich, CT 06360

A. Background Information

This abatement plan was submitted on November 28, 2018. Revised December 17, 2018.

Address of property to be abated;
4 Robbins Court
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 October 30, 2018.

B. Owner/Owner Agent Information

The owners and agent of the house is;
Kemesha Reynolds
4 Robbins Court
Norwich, CT 06360
860-303-2699

C. Resident Information

At the time of the inspection at least one child 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 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 and sills on the house with 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 February 18, 2019. The abatement work should be completed by April 12, 2019. 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 1905. 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 24 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
4 Robbins Court
Norwich, CT 06360

Room or Area	Component, number of components, Substrate	Location	Abatement Method	Comments
1st Floor				
Foyer	Window sash, 1, wood	B side	Replace with vinyl replacement unit.	Sill and casing are neg. for LBP
Room 1	Window sill, 1, wood	A side	Prepare and encapsulate	Casing is neg. for LBP
	Window sash, 3, wood	A side	Replace with vinyl replacement units.	Sills and casings are neg. for LBP
	Window sash, 1, wood	D side	Replace with vinyl replacement unit.	Sill and casing are neg. for LBP
Room 2	Window sash, 3, wood	A and B sides	Replace with vinyl replacement units.	Sills and casings are neg. for LBP
Room 2 Closet	Window sash, 1, wood	B side	Remove all paint from all friction and edges, test with XRF to ensure lead levels are below regulatory limits. Paint 2 coats of encapsulant paint include the exterior side.	
Room 3	Window sash, 3, wood	D side	Replace with vinyl replacement units.	Sills and casings are neg. for LBP. Save one D Rht sash for testing
	Baseboard, 1, wood	B side only	Prepare and encapsulate	
Bath 1	Window sash, 1, wood	D side	Replace with vinyl replacement unit.	Sill and casing are neg. for LBP
	Pipe, 1, metal	B side	Prepare and encapsulate	
	Door and frame	C side	Save door for testing on ext. sides. Remove door and door frame. Reframe opening, insulate and cover with same wall paneling.	
Pantry	Window sash, 1, wood	D side	Replace with vinyl replacement unit.	Sill and casing are neg. for LBP
Kitchen	Window sash, 2, wood	B and C sides	Replace with vinyl replacement units.	Sills and casings are neg. for LBP. Save one B side sash for testing
Stairwell	Window sash, 1, wood (window is non-operable)	B side	Prepare and encapsulate	Sill and casing are neg. for LBP

Abatement sheet for 4 Robbins Court, Norwich, CT 06360

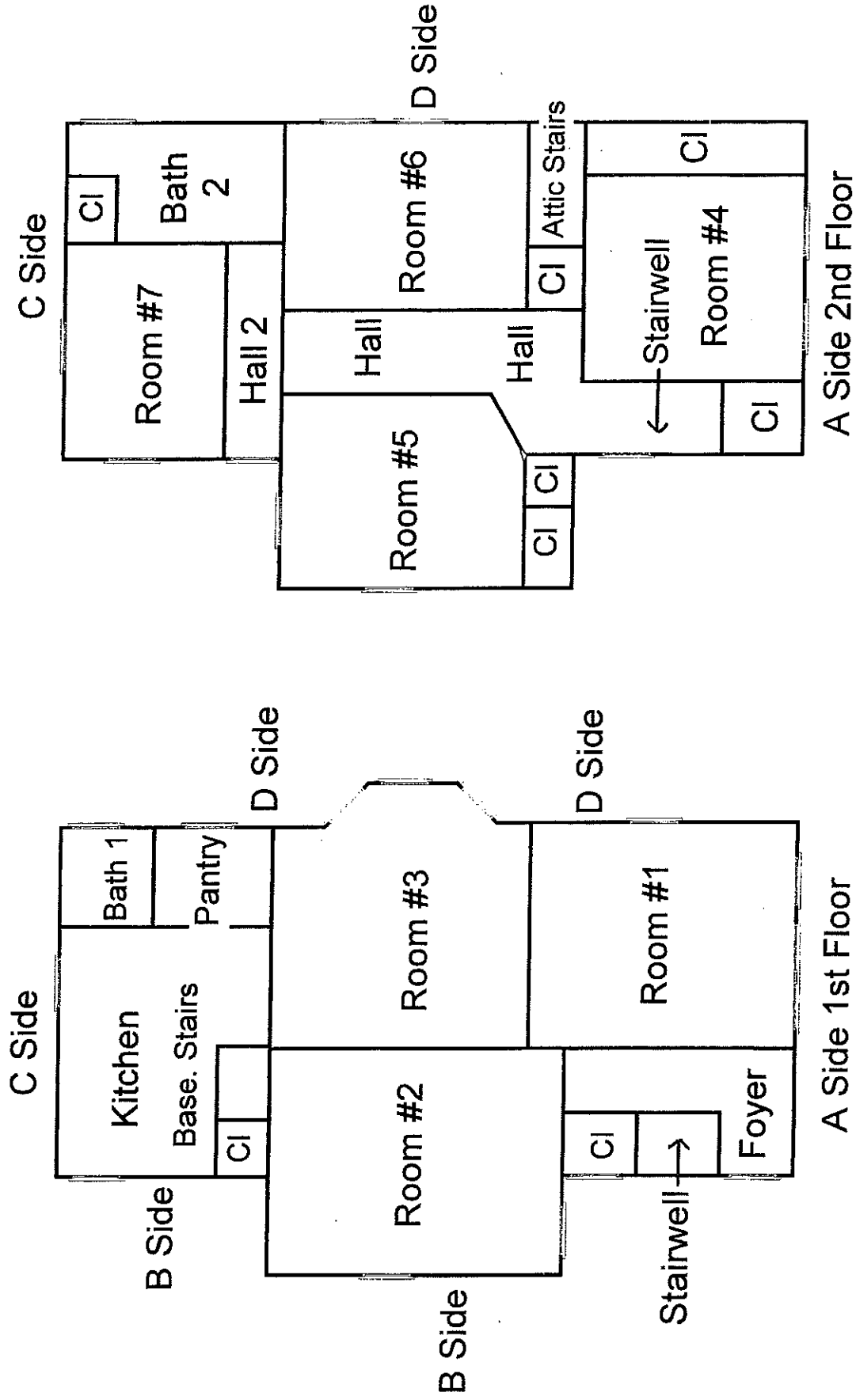
Room or Area	Component, number of components, Substrate	Location	Abatement Method	Comments
Hall	Doors, door jambs and casings 2, wood (Doors to Rooms 4 and 6). Note; the door jambs on the hall sides of the doors are not an impact surfaces and do not need to be stripped.	A side and D side	Remove all paint 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 from both side edges of the door (hinge and strike sides). Test all stripped surfaces with XRF instrument to ensure the surfaces are below regulatory limits. Prepare other surfaces and encapsulate. This process is called Door Treatment (if jambs are impact surface they must be stripped)	
Room 4	Window sash, 2, wood	A side	Replace with vinyl replacement units.	Sills and casings are neg. for LBP
	Closet shelf, 1, wood (the shelf on the B wall, C wall shelf is neg. for LBP)	B side, 1	Replace with new shelf	
	Closet shelf, 1, wood	D side	Replace with new shelf	
	Closet cabinet drawer and frame, 1, wood	D side	Remove all paint from the impact surfaces, test with XRF prior to repainting. Paint complete cabinet including top with an approved encapsulant	
Room 5	Window sill and casing, 2, wood	B and C sides	Prepare and encapsulate	
	Window sash, 2, wood	B and C sides	Replace with vinyl replacement units.	Save one B side sash for testing
	Window screen, 1, wood	C side	Remove, do not replace	
	Doors, door jambs and casings, 2, wood	A and D side	Door Treatment	Alternate Method; replace closet door
	Baseboards, all, wood	All sides	Prepare and encapsulate	
Room 6	Window sill and casing, 2, wood	D side	Prepare and encapsulate	
	Window sash, 2, wood	D side	Replace with vinyl replacement units.	Save one D side left sash for testing
	Doors, door jambs and casings, 3, wood	A and B sides	Door Treatment	
	Baseboards, all, wood	All sides	Prepare and encapsulate	
	Access panel and trim, 1, wood	C side	Prepare and encapsulate	

Abatement sheet for 4 Robbins Court, Norwich, CT 06360

Room or Area	Component, number of components, Substrate	Location	Abatement Method	Comments
Room 7	Window sill and casing, 2, wood	B and C sides	Prepare and encapsulate	
	Window sash, 2, wood	B and C sides	Replace with vinyl replacement units.	
	Door jamb, 1, wood	A side	Remove all paint, test with XRF before re-painting	Door is neg. for LBP
	Door casing, 1, wood	A side	Prepare and encapsulate	Door is neg. for LBP
	Closet door, door jamb and casing, all, wood	D side	Door Treatment	
	Baseboard, all, wood	All sides	Prepare and encapsulate	
Hall 2	Window sash, 1, wood	B side	Replace with vinyl replacement units.	Sills and casings are neg. for LBP. Save one sash for testing
Bath 2	Window sash, 1, wood	D side	Replace with vinyl replacement units.	Sills and casings are neg. for LBP. Save one sash for testing
Attic stairs	Door, door jamb and casing, 1, wood	C side	Prepare and encapsulate	Not an impact surface
	Stair treads, all, wood	All	Hepa vacuum and cover full tread with vinyl materials. Must be mechanically fastened.	Risers are neg. for LBP, but may also be covered
Basement	Cellar window sashes, 6	B, C and D sides	Replace with vinyl replacement units.	
Exterior	Door jamb, 1, wood	A side	Cover with aluminum, add alum. weather strip on edge adjacent to door. Make air tight.	
	Door threshold, 1, wood	A side	Remove all paint, test with XRF before re-finishing with 2 coats of varnish or paint. Owner to pick.	
	Window sashes, all, wood	All sides	The abatement of all positive wood windows has been detailed in the interior rooms, except for Stairwell sash (see below)	
	Window sash, 1, (Stairwell)	B side	This is a fixed window, prepare and encapsulate. Install an energy panel over sash.	
	Window sills, casings and blind stops, all, wood or aluminum	All sides	Remove all existing storm windows, inspect all exterior window frames and replace any damaged aluminum trim and/or cover all exposed wood. Replace any rotten and damaged wood, as needed. Re-fasten all loose aluminum or replace completely. Make weather tight, caulk as, needed.	

Abatement sheet for 4 Robbins Court, Norwich, CT 06360

Room or Area	Component, number of components, Substrate	Location	Abatement Method	Comments
Front Porch	Porch columns, 5, wood	A, B and D sides	Prepare and encapsulate	
	Porch upper trim, soffits, all	D side only	Prepare and encapsulate, as needed	
	Porch floor, all, wood	A, B and D sides	Hepa vacuum floor to remove all paint chips and cover with ½ inch PT plywood	
	Porch lower trim, all, (adjacent to lattice, below flooring)	A, B and D sides	Prepare and encapsulate	
Exterior	Ext Foundation, all, brick	B and C sides	Prepare and encapsulate	D side is neg.
	Cellar window screens, all, wood	B, C and D sides	Remove, do not replace	
	Cellar window frames and sills, 6, wood	B, C and D sides	Cover with aluminum	
	Door, 1, wood	B side	Replace with new door unit. Alternate Method; do a door treatment on door and encapsulate door jamb and casing. (jamb is not an impact surface)	
	Door threshold, 1, wood	B side	Remove all paint, test with XRF before re-finishing with 2 coats of varnish or paint. Owner to pick. Alternate Method; may be removed if a new door unit is selected. If new door is added on top, remove all paint from any exposed surface of existing threshold, and re-test with XRF.	
	Overhang bracket and ceiling, all, wood	B side	Prepare and encapsulate	Alternate Method; cover with aluminum
	Storm door, 1, wood	C side	Remove, do not replace	
	Stairs and landing, all (all neg. for LBP)	C side	Remove, do not replace	Door is being removed
	Overhang bracket and ceiling, all, wood	C side	Remove, do not replace	Door is being removed. Alternate Method; do not remove. Prepare and encapsulate instead.
	Vinyl siding, as needed	C side	Match existing vinyl siding were the door and overhang have been removed. Weave new siding in and/or break off at corners and/or window casing. Must look acceptable.	



4 Robbins Court, Norwich, CT 06360

4 Robbins Court –Rehab. Inspection notes:

Home Owner concerns- Primarily heating and Roofing with some interior leaks reported when interior toilets are flushed, as well as a ceiling leak in 1st floor kitchen.

Observations- Roofing materials appear to be in good shape, no curling or shingle deterioration was visible. Building permit records show the property was entirely re-roofed in 2001 with an additional permit for the right side of the roof was done again in 2013. Given the life expectancy of the existing roofing materials as well as the location of the leaks reported, my best guess is that that the leaks inside the home are related to defects in the toilet flanges and wax gaskets rather than the roof itself.

Observations- The existing heating system is an oil fired hot water boiler with cast iron radiators. The boiler is 10 years old and in fair condition with an (AFUE) rating of 83% efficiency. There are no reported problems with the boiler but the owner has indicated that they would like to switch to a gas fired High efficiency system. (94AFUE).