**Hennepin County Department of Housing, Community Works & Transit**

701 Fourth Avenue South, Suite 400
Minneapolis, Minnesota 55415

612-348-9260, Phone
612-348-9710, Fax
www.hennepin.us

2/10/2012

GMHC - Greater Metropolitan Housing Corporation
15 S 5th St Suite 710
Minneapolis MN 55402

RE: 4330 Logan AVE N

Dear GMHC - Greater Metropolitan Housing Corporation:

The Hennepin County Housing, Community Works and Transit Department has completed a Lead-Based Paint Inspection and Risk Assessment (PIRA) at the above referenced address. Appendix D of the enclosed PIRA Report lists options for addressing each lead hazard identified during the PIRA. The options listed for each lead hazard range from abatement (removal or enclosure) to interim controls (paint stabilization). When choosing options for each lead hazard it is a good practice to consult with your construction manager and contractor to determine the best solutions for your property and your budget. Hennepin County Housing Community Works and Transit staff are also available for consultation on the contents of this report.

A clearance inspection should be conducted immediately following the lead hazard reduction work. Please notify our office two days in advance of the completion of the work so your property can be put on the clearance schedule.

The Federal Residential Lead-Based Paint Hazard Reduction Act, 42 U.S.C. 4852d, requires sellers and landlords of most residential housing built before 1978 to disclose all available records and reports concerning lead-based paint and/or lead-based paint hazards, including the test results contained in this notice, to purchasers and tenants at the time of sale or lease or upon lease renewal. This disclosure must occur even if hazard reduction or abatement has been completed. Failure to disclose these test results is a violation of the U.S. Department of Housing and Urban Development and the U.S. Environmental Protection Agency regulations at 24 CFR Part 35 and 40 CFR Part 745 and can result in a fine of up to $11,000 per violation. To find out more information about your obligations under federal lead-based paint requirements call 1-800-424-LEAD.

Sincerely,

Ben Jones
Hennepin County
Housing, Community Works and Transit
(612) 366-9579

# Lead-Based Paint Inspection and Risk Assessment Report

**4330 Logan AVE N**

**Minneapolis MN, 55412**

**Prepared For:**

**GMHC - Greater Metropolitan Housing Corporation**
**15 S 5th St Suite 710**
**Minneapolis, MN 55402**

**By:**

**Ben Jones**
**Hennepin County**
**Housing, Community Works and Transit**
**701 4th Ave S, Suite 400**
**Minneapolis, MN 55415-1843**

**Minnesota License Number: LR2623**

**2/10/2012**

**Hennepin County Housing,**
**Community Works and Transit**

## Paint Inspection / Risk Assessment Summary

**Site Address: 4330 Logan AVE N**

**Property Information:**

Owner: GMHC - Greater Metropolitan Housing Corporation
15 S 5th St Suite 710
Minneapolis, MN 55402
(612) 399-0601

Date of Construction: 1941

Occupancy Status: Vacant

Inspection Date: 1/27/2012

Report Date: 9/10/2012

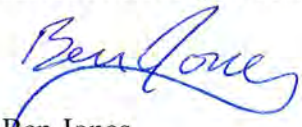
**Summary of Findings: Lead-Based Paint and Lead Hazards were found.**

**Summary of Locations of Lead-Based Paint:**
Exterior and Interior

**Summary of Lead-Based Paint Hazards:**
Dust Hazards: Window wells, window sills, and floors.
Soil Hazards: None detected at the time of inspection.
Paint Hazards: Cellar windows, several exterior walls, pieces interior and exterior trim, and doors.

**Information Included in Report:**
**HUD Guidelines Part I** (see cover page)
**HUD Guidelines Part II**
Appendix A: Dwelling Sketches
Appendix B: XRF Results
Appendix C: Analytical Results (If applicable)
**HUD Guidelines Part III**
Appendix D: Lead Hazard Reduction Options
Appendix E: Maintenance/Monitoring Schedule (If applicable)

**Risk Assessor (for more information):**



Ben Jones
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**Report prepared by:**

Ben Jones
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701 4th Ave S, Suite 400
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(612) 366-9579

**Appendix A:**
**Dwelling Sketches**

These sketches are diagrams of the exterior and interior rooms of the reference property. The room numbers on the sketches correspond to the "Room" column on the XRF report and the "Room #" column on the analytical sample sheets.

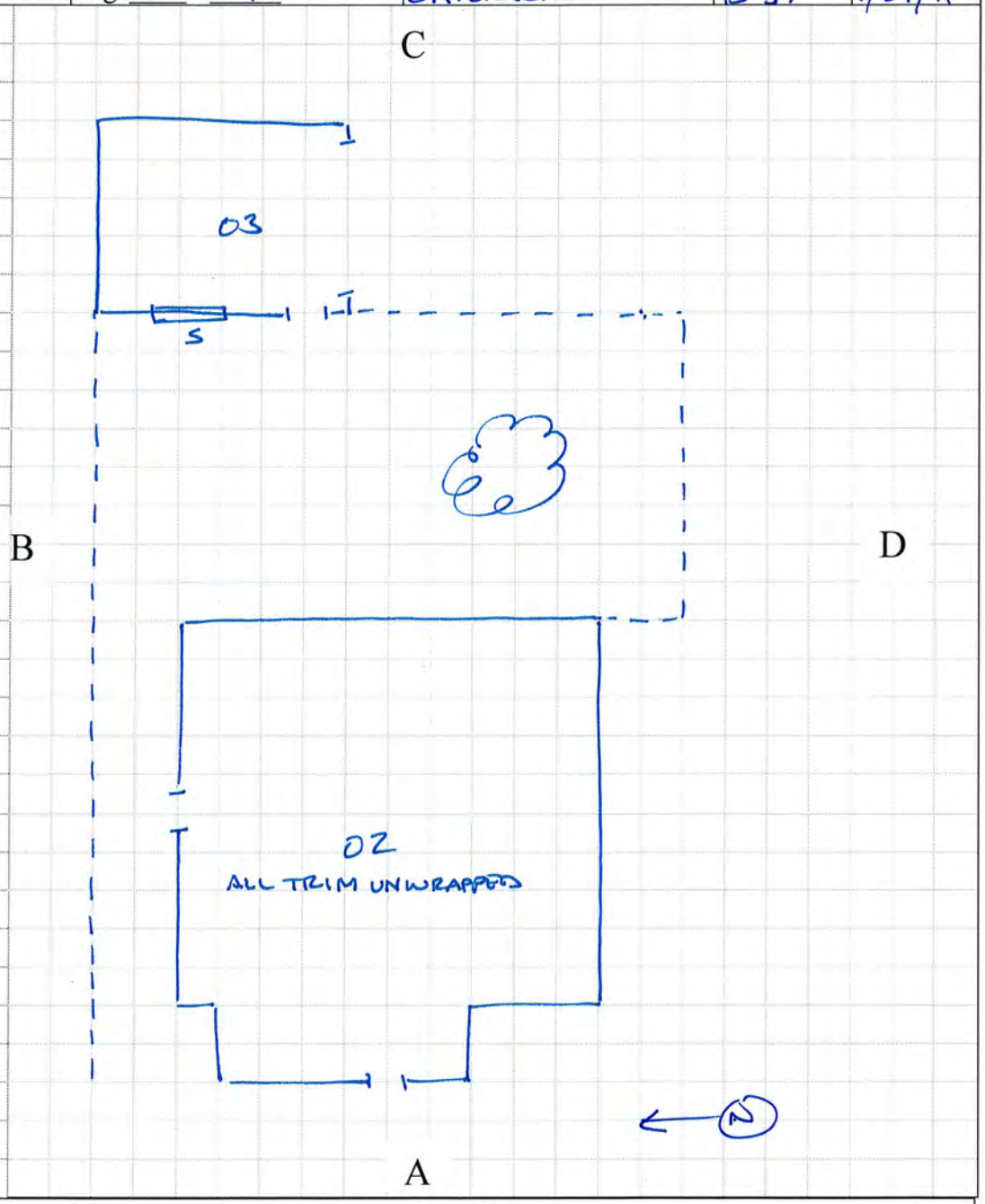
Each room in a dwelling unit or common area is given a room number including the Exterior and the Garage. Dwelling units and common areas are treated separately and individually numbered beginning with Room 02 (Room 01 is never used).
The Exterior and Garage are numbered as part of the common areas.

# Hennepin County Housing, Community Works & Transit
## Dwelling Sketch

| Case Type | Tracking # | Property Address | Dwelling Unit |
|---|---|---|---|
| **GMHC/Fee For Service** | | **4330 Logan Ave N, MPLS** | SF |

| Risk Assessor | Page Number | Exterior / Floor Level | Drawn By | Date |
|---|---|---|---|---|
| Jones | Page 1 of 4 | EXTERIOR | B.J. | 1/27/11 |

02 HOUSE EXT
03 GARAGE




Street used in address of residence: Logan Avenue N.

This sketch is not to scale.

# Hennepin County Housing, Community Works & Transit
## Dwelling Sketch

| Case Type | Tracking # | Property Address | Dwelling Unit |
|---|---|---|---|
| **GMHC/Fee For Service** | | **4330 Logan Ave N, MPLS** | SF |

| Risk Assessor | Page Number | Exterior / Floor Level | Drawn By | Date |
|---|---|---|---|---|
| Jones | Page 2 of 4 | BASEMENT | B.J. | 1/27/11 |

02
03
04 BASEMENT
05 BSMT STR
06
07
08
09
10
11
12
13
14
15
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17
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28
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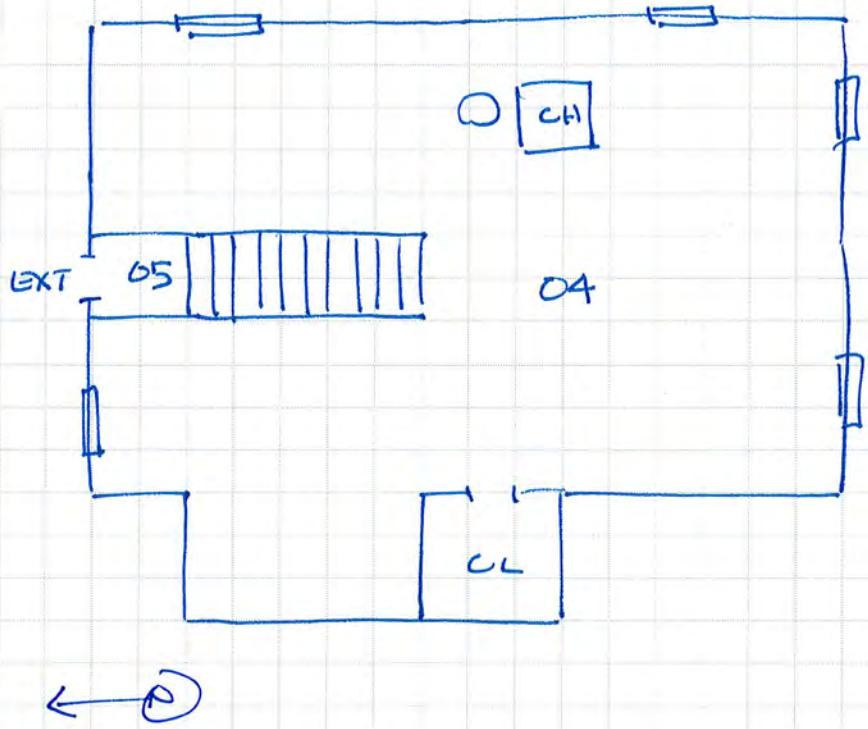
31
32

C

CH = chimney
CL = closet

B

D




A

Street used in address of residence: Logan Avenue N.

This sketch is not to scale.

# Hennepin County Housing, Community Works & Transit
## Dwelling Sketch

| Case Type | Tracking # | Property Address | Dwelling Unit |
|---|---|---|---|
| **GMHC/Fee For Service** | | **4330 Logan Ave N, MPLS** | SF |

| Risk Assessor | Page Number | Exterior / Floor Level | Drawn By | Date |
|---|---|---|---|---|
| Jones | Page 3 of 4 | FLOOR 01 | B.J. | 1/27/12 |

02
03
04
05
06 Kitchen
07 NE BED RM
08 HALL
09 BATH
10 SE BED RM
11 LIVING RM
12 ENTRY
13
14
15
16
17
18
19
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21
22
23
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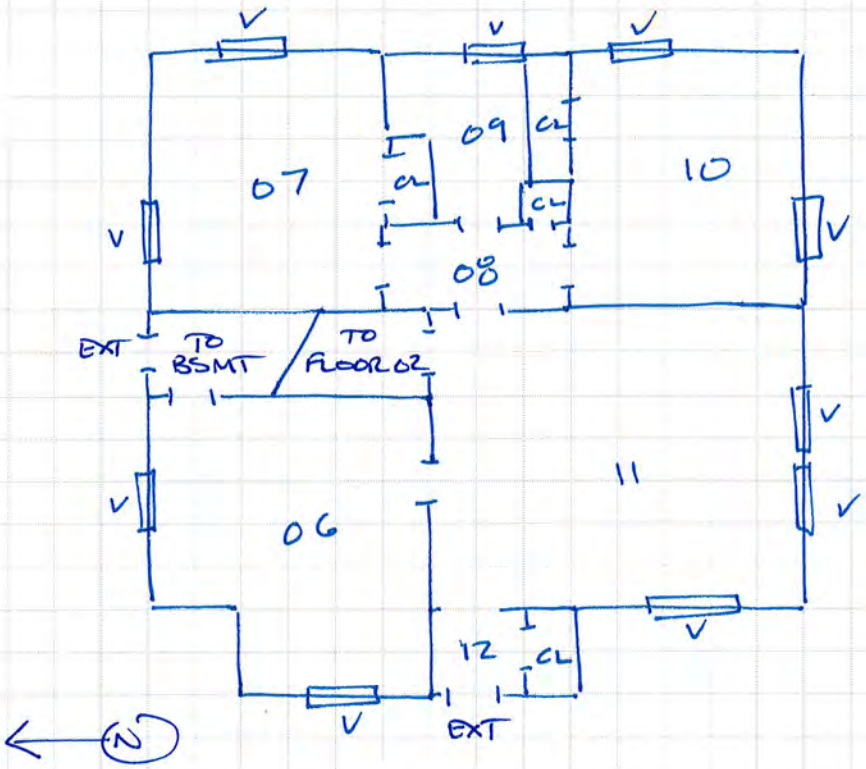
26
27
28
29
30
31
32

V = Vinyl Window
CL = Closet




Street used in address of residence: Logan Avenue N.

This sketch is not to scale.

# Hennepin County Housing, Community Works & Transit
## Dwelling Sketch

| Case Type | Tracking # | Property Address | Dwelling Unit |
|---|---|---|---|
| **GMHC/Fee For Service** | | **4330 Logan Ave N, MPLS** | SF |

| Risk Assessor | Page Number | Exterior / Floor Level | Drawn By | Date |
|---|---|---|---|---|
| Jones | Page 4 of 4 | FLOOR 02 | B.J. | 1/27/12 |

C

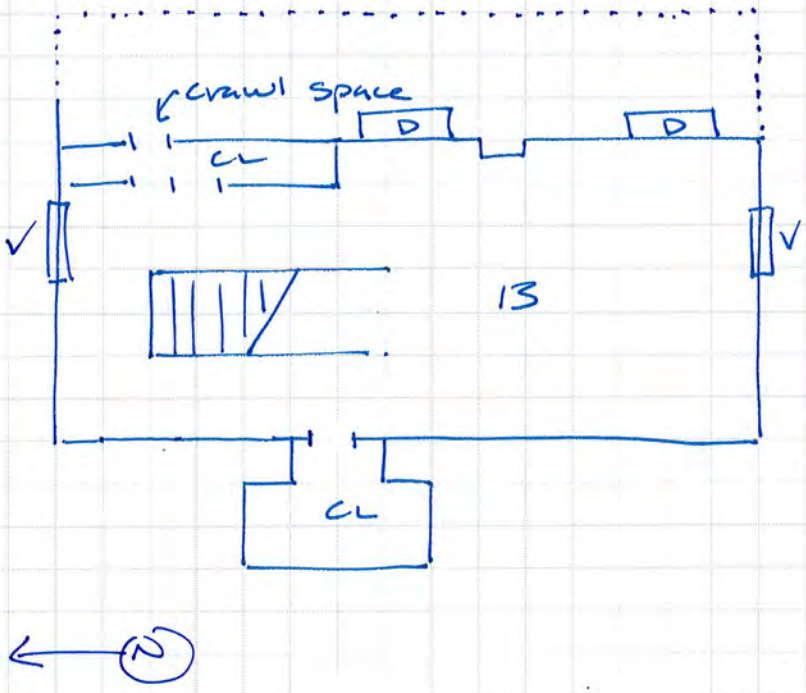
V = Vinyl Window
CL = closet

UPPER BR/STR

TWO SKY LIGHTS

B

D




A

Street used in address of residence: Logan Avenue N.

This sketch is not to scale.

Hennepin County Housing Community Works and Transit

**Appendix B:**
**XRF Results Report—Attached**

XRF risk assessment paint inspection conducted according to established HUD guidelines and according to the Hennepin County Housing, Community Works and Transit protocols.

Paint Standard
1.0 $mg/cm^2$

Explanation of Column Headings:
No - a machine generated sequence number
XRF/Insp – the serial number of the machine and the initials of the inspector
Site – specific unit of a multiple unit project (omitted for single family homes)
Floor – Floor level
Room – room being tested (see site diagrams also included)
Wall – Wall side of the room starting with A on the street side and going clock-wise
Component – what is being tested
Substrate – the composition of the tested component
Condition – condition of the paint
Color – the color of the paint
DI – Depth Index – the larger the number the deeper the lead-based paint layer
Result – the result of the test
Pbc – the total combined lead in the layers of paint
Pbc Error – the error of the total combined lead level

Model and Serial numbers of Niton XRFs used:

| Model # | Serial # |
|---|---|
| XLp300A | U9022 |
| XLp300A | U9731 |
| XLp303A | U17621 |
| XLp305A | U25845 |

| Risk Assessors | Initials | License Number |
|---|---|---|
| Brian Kluver | BK | 369 |
| Matt Moore | MM | 614 |
| Melisa Illies | MI | 330 |
| Michael Jensen | MJ | 232 |
| Jim Graham | JG | 771 |
| Ben Jones | BJ | 2623 |
| Isak Collins | IC | 1278 |

| No | XRF/Insp | Floor | ROOM | # | Wall | COMPONENT | SUBSTRATE | CONDITION | COLOR | DI | Results | PbC mg/cm² | PbC Error mg/cm² |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 785 | | | | | | Shutter Calibrate | | | | | 411.56 | 8.1 | 0 |
| **786** | | | | | | **Calibrate** | | | | **1.07** | **Positive** | **1.1** | **0.1** |
| **787** | | | | | | **Calibrate** | | | | **1.04** | **Positive** | **1.1** | **0.1** |
| **788** | | | | | | **Calibrate** | | | | **1.09** | **Positive** | **1.1** | **0.1** |
| **789** | | | | | | **Calibrate** | | | | **1.34** | **Positive** | **4** | **1.7** |
| 790 | | | | | | Calibrate | | | | 1 | Negative | < LOD | 0.43 |
| **791** | **9022/IC** | **1** | **Exterior** | **2** | **A** | **Wall** | **WOOD** | **FAIR** | **Beige** | **3.48** | **Positive** | **16.6** | **4.8** |
| **792** | **9022/IC** | **1** | **Exterior** | **2** | **A** | **Window Casing** | **WOOD** | **FAIR** | **Beige** | **2.36** | **Positive** | **21.1** | **7.2** |
| **793** | **9022/IC** | **1** | **Exterior** | **2** | **B** | **Wall** | **WOOD** | **FAIR** | **Beige** | **3.25** | **Positive** | **10.7** | **4.8** |
| **794** | **9022/IC** | **1** | **Exterior** | **2** | **B** | **Door** | **WOOD** | **FAIR** | **WHITE** | **1.29** | **Positive** | **4.9** | **2** |
| **795** | **9022/IC** | **1** | **Exterior** | **2** | **B** | **Door Threshold** | **WOOD** | **FAIR** | **WHITE** | **1.92** | **Positive** | **7.9** | **4.4** |
| **796** | **9022/IC** | **1** | **Exterior** | **2** | **B** | **Door Jamb** | **WOOD** | **FAIR** | **WHITE** | **2.47** | **Positive** | **9.1** | **4.5** |
| **797** | **9022/IC** | **1** | **Exterior** | **2** | **B** | **Door Casing** | **WOOD** | **FAIR** | **WHITE** | **3.06** | **Positive** | **< LOD** | **16.8** |
| **798** | **9022/IC** | **1** | **Exterior** | **2** | **C** | **Wall** | **WOOD** | **FAIR** | **WHITE** | **4.89** | **Positive** | **20.5** | **6.8** |
| **799** | **9022/IC** | **1** | **Exterior** | **2** | **D** | **Wall** | **WOOD** | **FAIR** | **WHITE** | **4.76** | **Positive** | **16.5** | **6.1** |
| **800** | **9022/IC** | **1** | **Exterior** | **2** | **C** | **Celr Win Cas** | **WOOD** | **FAIR** | **WHITE** | **2.07** | **Positive** | **6.2** | **3.6** |
| 801 | 9022/IC | 1 | Exterior | 2 | B | awning | METAL | FAIR | WHITE | 1 | Negative | < LOD | 0.03 |
| **802** | **9022/IC** | **1** | **Exterior** | **2** | **A** | **Door** | **WOOD** | **FAIR** | **WHITE** | **3.46** | **Positive** | **16.1** | **6** |
| 803 | 9022/IC | 1 | Exterior | 2 | A | Str Rail Cap | METAL | FAIR | Black | 1 | Negative | 0.22 | 0.14 |
| 804 | 9022/IC | 1 | Exterior | 2 | B | Downspout | METAL | FAIR | WHITE | 1 | Negative | < LOD | 0.03 |
| **805** | **9022/IC** | **1** | **Garage** | **3** | **A** | **Wall** | **WOOD** | **FAIR** | **Blue** | **2.52** | **Positive** | **11.3** | **4.9** |
| **806** | **9022/IC** | **1** | **Garage** | **3** | **B** | **Wall** | **WOOD** | **FAIR** | **Blue** | **2.56** | **Positive** | **13.8** | **5.5** |
| **807** | **9022/IC** | **1** | **Garage** | **3** | **C** | **Wall** | **WOOD** | **FAIR** | **Blue** | **2.53** | **Positive** | **12.1** | **5.1** |
| **808** | **9022/IC** | **1** | **Garage** | **3** | **D** | **Wall** | **WOOD** | **FAIR** | **Blue** | **3.02** | **Positive** | **16.1** | **5.8** |
| **809** | **9022/IC** | **1** | **Garage** | **3** | **D** | **Overhead Dr Cas** | **WOOD** | **FAIR** | **Blue** | **2.62** | **Positive** | **10** | **4.8** |
| 810 | 9022/IC | 1 | Garage | 3 | D | Overhead Dr | METAL | FAIR | WHITE | 1 | Negative | < LOD | 0.03 |
| 811 | 9022/IC | 1 | Garage | 3 | A | Door | METAL | FAIR | WHITE | 1 | Negative | < LOD | 0.05 |
| 812 | 9022/IC | 1 | Garage | 3 | A | Door Casing | WOOD | FAIR | Blue | 1 | Negative | < LOD | 0.03 |
| **813** | **9022/IC** | **1** | **Garage** | **3** | **A** | **Window Casing** | **WOOD** | **FAIR** | **WHITE** | **2.69** | **Positive** | **14.2** | **5.5** |
| **814** | **9022/IC** | **1** | **Garage** | **3** | **A** | **Window Sash** | **WOOD** | **FAIR** | **WHITE** | **2.98** | **Positive** | **12.9** | **5.1** |
| 815 | 9022/IC | Bsmt | Basement | 4 | A | Wall | CONCRETE | FAIR | WHITE | 1 | Negative | < LOD | 0.03 |
| 816 | 9022/IC | Bsmt | Basement | 4 | B | Wall | CONCRETE | FAIR | WHITE | 1.85 | Negative | < LOD | 0.04 |
| 817 | 9022/IC | Bsmt | Basement | 4 | C | Wall | CONCRETE | FAIR | WHITE | 2.5 | Negative | < LOD | 0.05 |
| 818 | 9022/IC | Bsmt | Basement | 4 | D | Wall | CONCRETE | FAIR | WHITE | 7.76 | Negative | < LOD | 0.37 |
| 819 | 9022/IC | Bsmt | Basement | 4 | D | Floor | VINYL | FAIR | Beige | 1 | Negative | < LOD | 0.03 |
| 820 | 9022/IC | Bsmt | Basement | 4 | A | Door Casing | WOOD | FAIR | WHITE | 1.66 | Null | < LOD | 1.65 |
| **821** | **9022/IC** | **Bsmt** | **Basement** | **4** | **A** | **Door Casing** | **WOOD** | **FAIR** | **WHITE** | **2.01** | **Positive** | **1.6** | **0.5** |
| **822** | **9022/IC** | **Bsmt** | **Basement** | **4** | **A** | **Door** | **WOOD** | **FAIR** | **WHITE** | **1.95** | **Positive** | **1.8** | **0.5** |
| **823** | **9022/IC** | **Bsmt** | **Basement** | **4** | **B** | **Celr Win Sash** | **WOOD** | **FAIR** | **WHITE** | **1.79** | **Positive** | **3.1** | **0.8** |

| No | XRF/Insp | Floor | ROOM | # | Wall | COMPONENT | SUBSTRATE | CONDITION | COLOR | DI | Results | PbC mg/cm² | PbC Error mg/cm² |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **824** | **9022/IC** | **Bsmt** | **Basement** | **4** | **B** | **Celr Win Cas** | **WOOD** | **FAIR** | **WHITE** | **1.78** | **Positive** | **2.7** | **1.4** |
| 825 | 9022/IC | Bsmt | Basement | 4 | D | Celr Support | WOOD | FAIR | WHITE | 2.71 | Negative | < LOD | 0.29 |
| 826 | 9022/IC | Bsmt | Basement | 4 | D | Celr Beam | WOOD | FAIR | WHITE | 1.17 | Negative | < LOD | 0.07 |
| 827 | 9022/IC | Bsmt | Basement | 4 | C | Chimney | BRICK | FAIR | Beige | 2.27 | Negative | < LOD | 0.04 |
| 828 | 9022/IC | Bsmt | Bsmt Stair | 5 | A | Wall | PLASTER | FAIR | Beige | 8.43 | Negative | < LOD | 1.38 |
| 829 | 9022/IC | Bsmt | Bsmt Stair | 5 | B | Wall | PLASTER | FAIR | Beige | 8.21 | Negative | < LOD | 1.26 |
| 830 | 9022/IC | Bsmt | Bsmt Stair | 5 | C | Wall | PLASTER | FAIR | Beige | 2.63 | Negative | < LOD | 1.25 |
| 831 | 9022/IC | Bsmt | Bsmt Stair | 5 | D | Ceiling | PLASTER | FAIR | Beige | 2.8 | Negative | < LOD | 2.2 |
| 832 | 9022/IC | 1 | Bsmt Stair | 5 | D | Wall | VINYL | INTACT | Beige | 1 | Null | < LOD | 0.03 |
| 833 | 9022/IC | 1 | Bsmt Stair | 5 | D | Wall | VINYL | INTACT | Beige | 3.7 | Negative | < LOD | 0.03 |
| 834 | 9022/IC | 1 | Bsmt Stair | 5 | D | Str Tread | VINYL | INTACT | Beige | 1.97 | Negative | < LOD | 0.03 |
| 835 | 9022/IC | 1 | Bsmt Stair | 5 | D | Str Risers | VINYL | INTACT | Beige | 1 | Negative | < LOD | 0.03 |
| 836 | 9022/IC | 1 | Bsmt Stair | 5 | D | Str Baseboard | WOOD | FAIR | WHITE | 1 | Negative | < LOD | 0.08 |
| 837 | 9022/IC | 1 | Bsmt Stair | 5 | A | Str Rail Cap | WOOD | FAIR | NATRL | 1 | Negative | < LOD | 0.05 |
| 838 | 9022/IC | 1 | Bsmt Stair | 5 | A | Door Casing | WOOD | FAIR | NATRL | 1.2 | Negative | < LOD | 0.07 |
| 839 | 9022/IC | 1 | Bsmt Stair | 5 | A | Door | WOOD | FAIR | NATRL | 1.69 | Negative | < LOD | 0.24 |
| 840 | 9022/IC | 1 | Bsmt Stair | 5 | A | Baseboard | WOOD | FAIR | NATRL | 1 | Negative | < LOD | 0.08 |
| 841 | 9022/IC | 1 | Kitchen | 6 | A | Wall | PLASTER | FAIR | Beige | 1.44 | Negative | 0.21 | 0.08 |
| 842 | 9022/IC | 1 | Kitchen | 6 | A | Wall lwr | PLASTER | FAIR | Pink | 10 | Negative | < LOD | 1.38 |
| 843 | 9022/IC | 1 | Kitchen | 6 | B | Wall lwr | PLASTER | FAIR | Pink | 3.18 | Negative | < LOD | 0.29 |
| 844 | 9022/IC | 1 | Kitchen | 6 | D | Wall lwr | PLASTER | FAIR | Pink | 5.21 | Negative | < LOD | 0.25 |
| 845 | 9022/IC | 1 | Kitchen | 6 | B | Wall | PLASTER | FAIR | Beige | 2.66 | Negative | 0.12 | 0.05 |
| 846 | 9022/IC | 1 | Kitchen | 6 | C | Wall | PLASTER | FAIR | Pink | 8.7 | Negative | < LOD | 1.41 |
| 847 | 9022/IC | 1 | Kitchen | 6 | D | Wall | PLASTER | FAIR | Yellow | 5.44 | Null | < LOD | 0.24 |
| 848 | 9022/IC | 1 | Kitchen | 6 | D | Wall | PLASTER | FAIR | Yellow | 4.8 | Negative | < LOD | 0.75 |
| 849 | 9022/IC | 1 | Kitchen | 6 | D | Floor | VINYL | FAIR | Beige | 6.26 | Negative | < LOD | 1.31 |
| 850 | 9022/IC | 1 | Kitchen | 6 | D | Floor | VINYL | FAIR | Beige | 1 | Negative | < LOD | 0.03 |
| 851 | 9022/IC | 1 | Kitchen | 6 | C | Door Casing | WOOD | FAIR | NATRL | 1 | Negative | < LOD | 0.07 |
| 852 | 9022/IC | 1 | Kitchen | 6 | C | Door | WOOD | FAIR | NATRL | 1 | Negative | < LOD | 0.14 |
| 853 | 9022/IC | 1 | Kitchen | 6 | B | Window Casing | WOOD | FAIR | NATRL | 3.69 | Negative | < LOD | 0.4 |
| 854 | 9022/IC | 1 | Kitchen | 6 | B | Cab Outside | WOOD | FAIR | NATRL | 1.14 | Negative | 0.04 | 0.02 |
| 855 | 9022/IC | 1 | Kitchen | 6 | B | Cab Shelf | WOOD | FAIR | NATRL | 1 | Negative | < LOD | 0.11 |
| 856 | 9022/IC | 1 | Kitchen | 6 | D | Baseboard | WOOD | FAIR | NATRL | 1 | Negative | < LOD | 0.06 |
| 857 | 9022/IC | 1 | Kitchen | 6 | D | Shelf | WOOD | FAIR | NATRL | 1 | Negative | < LOD | 0.07 |
| 858 | 9022/IC | 1 | Kitchen | 6 | A | Mini Blinds | VINYL | FAIR | Beige | 1 | Negative | < LOD | 0.03 |
| 859 | 9022/IC | 1 | NE Bedroom | 7 | A | Wall | PLASTER | FAIR | Brown | 1.16 | Negative | < LOD | 0.03 |
| 860 | 9022/IC | 1 | NE Bedroom | 7 | B | Wall | PLASTER | FAIR | Brown | 1.75 | Negative | < LOD | 0.03 |
| 861 | 9022/IC | 1 | NE Bedroom | 7 | C | Wall | PLASTER | FAIR | Brown | 1 | Negative | < LOD | 0.03 |
| 862 | 9022/IC | 1 | NE Bedroom | 7 | D | Wall | PLASTER | FAIR | Brown | 3.47 | Null | < LOD | 0.11 |

| No | XRF/Insp | Floor | ROOM | # | Wall | COMPONENT | SUBSTRATE | CONDITION | COLOR | DI | Results | PbC mg/cm² | PbC Error mg/cm² |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 863 | 9022/IC | 1 | NE Bedroom | 7 | D | Wall | PLASTER | FAIR | Brown | 6.56 | Negative | < LOD | 0.15 |
| 864 | 9022/IC | 1 | NE Bedroom | 7 | D | Ceiling | PLASTER | INTACT | WHITE | 1.88 | Negative | < LOD | 0.05 |
| 865 | 9022/IC | 1 | NE Bedroom | 7 | D | Floor | WOOD | FAIR | NATRL | 1 | Negative | < LOD | 0.06 |
| 866 | 9022/IC | 1 | NE Bedroom | 7 | D | Baseboard | WOOD | FAIR | WHITE | 2.84 | Negative | < LOD | 0.68 |
| 867 | 9022/IC | 1 | NE Bedroom | 7 | B | Window Sill | WOOD | FAIR | WHITE | 1 | Negative | < LOD | 0.04 |
| 868 | 9022/IC | 1 | NE Bedroom | 7 | D | Door Casing | WOOD | FAIR | WHITE | 3.63 | Negative | < LOD | 0.45 |
| 869 | 9022/IC | 1 | NE Bedroom | 7 | D | Door | WOOD | FAIR | WHITE | 3.04 | Negative | < LOD | 0.59 |
| 870 | 9022/IC | 1 | NE Bedroom | 7 | C | Mini Blinds | VINYL | FAIR | Beige | 1 | Negative | < LOD | 0.03 |
| 871 | 9022/IC | 1 | NE Bedroom | 7 | D | Clst Wall | PLASTER | FAIR | WHITE | 2.52 | Negative | < LOD | 1.29 |
| 872 | 9022/IC | 1 | NE Bedroom | 7 | D | Clst Bracket | WOOD | FAIR | WHITE | 2.05 | Negative | < LOD | 0.46 |
| 873 | 9022/IC | 1 | NE Bedroom | 7 | D | Clst Shelf | WOOD | FAIR | WHITE | 3.57 | Negative | < LOD | 0.2 |
| 874 | 9022/IC | 1 | NE Bedroom | 7 | D | Clst hatch | WOOD | FAIR | WHITE | 1.72 | Negative | < LOD | 0.23 |
| 875 | 9022/IC | 1 | Hall | 8 | A | Wall | PLASTER | FAIR | Brown | 3.79 | Null | 0.6 | 0.2 |
| 876 | 9022/IC | 1 | Hall | 8 | A | Wall | PLASTER | FAIR | Brown | 3.68 | Negative | 0.6 | 0.1 |
| 877 | 9022/IC | 1 | Hall | 8 | B | Wall | PLASTER | FAIR | Brown | 4.4 | Negative | 0.8 | 0.1 |
| 878 | 9022/IC | 1 | Hall | 8 | C | Wall | PLASTER | FAIR | Brown | 4.21 | Negative | 0.5 | 0.2 |
| 879 | 9022/IC | 1 | Hall | 8 | D | Wall | PLASTER | FAIR | Brown | 4.68 | Negative | < LOD | 0.75 |
| 880 | 9022/IC | 1 | Hall | 8 | D | Ceiling | PLASTER | INTACT | WHITE | 5.26 | Negative | < LOD | 0.6 |
| 881 | 9022/IC | 1 | Hall | 8 | D | Floor | WOOD | FAIR | NATRL | 1.26 | Negative | < LOD | 0.11 |
| 882 | 9022/IC | 1 | Hall | 8 | D | Baseboard | WOOD | FAIR | WHITE | 5.31 | Negative | 0.4 | 0.2 |
| 883 | 9022/IC | 1 | Hall | 8 | B | Door Casing | WOOD | FAIR | WHITE | 3.09 | Negative | < LOD | 0.36 |
| 884 | 9022/IC | 1 | Hall | 8 | B | Door | WOOD | FAIR | WHITE | 2.25 | Negative | 0.17 | 0.09 |
| 885 | 9022/IC | 1 | Hall | 8 | C | Hatch | WOOD | FAIR | WHITE | 2.79 | Negative | < LOD | 0.38 |
| 886 | 9022/IC | 1 | Hall | 8 | C | Clst Wall | PLASTER | FAIR | Beige | 1.18 | Negative | < LOD | 0.04 |
| 887 | 9022/IC | 1 | Hall | 8 | C | Clst Bracket | WOOD | FAIR | Beige | 1.69 | Negative | < LOD | 0.25 |
| 888 | 9022/IC | 1 | Bath | 9 | A | Wall | PLASTER | FAIR | Blue | 1 | Negative | < LOD | 0.03 |
| 889 | 9022/IC | 1 | Bath | 9 | B | Wall | PLASTER | FAIR | Blue | 1 | Negative | < LOD | 0.03 |
| 890 | 9022/IC | 1 | Bath | 9 | C | Wall | PLASTER | FAIR | Blue | 1.28 | Negative | < LOD | 0.03 |
| 891 | 9022/IC | 1 | Bath | 9 | D | Wall | PLASTER | FAIR | Blue | 10 | Negative | < LOD | 1.56 |
| 892 | 9022/IC | 1 | Bath | 9 | D | Ceiling | PLASTER | FAIR | WHITE | 10 | Negative | < LOD | 1.01 |
| 893 | 9022/IC | 1 | Bath | 9 | A | Floor | CERAMIC | INTACT | Beige | 1.32 | Negative | 0.2 | 0.12 |
| 894 | 9022/IC | 1 | Bath | 9 | A | Door Casing | WOOD | FAIR | WHITE | 2.42 | Negative | < LOD | 0.29 |
| 895 | 9022/IC | 1 | Bath | 9 | A | Door | WOOD | FAIR | WHITE | 2.34 | Negative | < LOD | 0.27 |
| 896 | 9022/IC | 1 | Bath | 9 | D | Baseboard | WOOD | FAIR | WHITE | 1 | Negative | < LOD | 0.03 |
| 897 | 9022/IC | 1 | Bath | 9 | D | Wains Coating | WOOD | FAIR | WHITE | 1.28 | Null | < LOD | 0.11 |
| 898 | 9022/IC | 1 | Bath | 9 | D | Wains Coating | WOOD | FAIR | WHITE | 5.84 | Negative | < LOD | 0.2 |
| 899 | 9022/IC | 1 | Bath | 9 | D | Cab Outside | WOOD | FAIR | WHITE | 1.78 | Negative | < LOD | 0.06 |
| 900 | 9022/IC | 1 | Bath | 9 | C | Window Sill | WOOD | FAIR | WHITE | 10 | Negative | < LOD | 0.95 |
| 901 | 9022/IC | 1 | Bath | 9 | C | Mini Blinds | VINYL | FAIR | WHITE | 10 | Null | < LOD | 0.25 |

| No | XRF/Insp | Floor | ROOM | # | Wall | COMPONENT | SUBSTRATE | CONDITION | COLOR | DI | Results | PbC mg/cm² | PbC Error mg/cm² |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 902 | 9022/IC | 1 | Bath | 9 | C | Mini Blinds | VINYL | FAIR | WHITE | 1 | Negative | < LOD | 0.03 |
| 903 | 9022/IC | 1 | Bath | 9 | B | Wall | VINYL | INTACT | Blue | 1 | Negative | < LOD | 0.03 |
| 904 | 9022/IC | 1 | Bath | 9 | B | Tub | VINYL | INTACT | Blue | 1 | Negative | < LOD | 0.03 |
| 905 | 9022/IC | 1 | SE Bedroom | 10 | A | Wall | PLASTER | FAIR | Blue | 2.75 | Negative | 0.14 | 0.07 |
| 906 | 9022/IC | 1 | SE Bedroom | 10 | B | Wall | PLASTER | FAIR | Blue | 4.21 | Null | < LOD | 0.34 |
| 907 | 9022/IC | 1 | SE Bedroom | 10 | B | Wall | PLASTER | FAIR | Blue | 2.7 | Negative | 0.15 | 0.08 |
| 908 | 9022/IC | 1 | SE Bedroom | 10 | C | Wall | PLASTER | FAIR | Blue | 3.11 | Negative | < LOD | 0.27 |
| 909 | 9022/IC | 1 | SE Bedroom | 10 | D | Wall | PLASTER | FAIR | Blue | 1.92 | Negative | < LOD | 0.17 |
| 910 | 9022/IC | 1 | SE Bedroom | 10 | D | Floor | PLASTER | INTACT | WHITE | 2.78 | Negative | < LOD | 1.23 |
| 911 | 9022/IC | 1 | SE Bedroom | 10 | D | Floor | WOOD | FAIR | NATRL | 1.56 | Negative | < LOD | 0.09 |
| 912 | 9022/IC | 1 | SE Bedroom | 10 | D | Baseboard | WOOD | FAIR | WHITE | 2.51 | Negative | < LOD | 0.4 |
| **913** | **9022/IC** | **1** | **SE Bedroom** | **10** | **D** | **Window Sill** | **WOOD** | **FAIR** | **WHITE** | **1.43** | **Positive** | **2.4** | **1.1** |
| 914 | 9022/IC | 1 | SE Bedroom | 10 | D | Window Casing | WOOD | FAIR | WHITE | 2.56 | Negative | < LOD | 0.35 |
| **915** | **9022/IC** | **1** | **SE Bedroom** | **10** | **D** | **Window Sill** | **WOOD** | **FAIR** | **WHITE** | **2.33** | **Positive** | **2.9** | **1** |
| 916 | 9022/IC | 1 | SE Bedroom | 10 | D | Mini Blinds | VINYL | FAIR | WHITE | 1 | Negative | < LOD | 0.03 |
| 917 | 9022/IC | 1 | SE Bedroom | 10 | B | Clst Wall | PLASTER | FAIR | Beige | 2.13 | Negative | < LOD | 2.63 |
| 918 | 9022/IC | 1 | SE Bedroom | 10 | B | Clst Bracket | WOOD | FAIR | Beige | 1.71 | Negative | < LOD | 0.4 |
| 919 | 9022/IC | 1 | SE Bedroom | 10 | B | Clst Shelf | WOOD | FAIR | Beige | 1 | Negative | < LOD | 0.03 |
| 920 | 9022/IC | 1 | SE Bedroom | 10 | B | Door Casing | WOOD | FAIR | WHITE | 1.7 | Negative | < LOD | 0.23 |
| 921 | 9022/IC | 1 | SE Bedroom | 10 | B | Door | WOOD | FAIR | WHITE | 1.03 | Negative | < LOD | 0.13 |
| 922 | 9022/IC | 1 | Living Room | 11 | A | Wall | PLASTER | FAIR | Brown | 10 | Negative | < LOD | 1.41 |
| 923 | 9022/IC | 1 | Living Room | 11 | B | Wall | PLASTER | FAIR | Brown | 10 | Negative | < LOD | 1.45 |
| 924 | 9022/IC | 1 | Living Room | 11 | C | Wall | PLASTER | FAIR | Brown | 10 | Negative | < LOD | 1.41 |
| 925 | 9022/IC | 1 | Living Room | 11 | D | Wall | PLASTER | FAIR | Brown | 10 | Null | < LOD | 0.37 |
| 926 | 9022/IC | 1 | Living Room | 11 | D | Wall | PLASTER | FAIR | Brown | 10 | Negative | < LOD | 1.04 |
| 927 | 9022/IC | 1 | Living Room | 11 | D | Ceiling | PLASTER | INTACT | WHITE | 1.97 | Negative | < LOD | 0.03 |
| 928 | 9022/IC | 1 | Living Room | 11 | D | Floor | WOOD | FAIR | NATRL | 3.02 | Negative | < LOD | 0.23 |
| 929 | 9022/IC | 1 | Living Room | 11 | D | Baseboard | WOOD | FAIR | WHITE | 4.88 | Negative | < LOD | 0.6 |
| 930 | 9022/IC | 1 | Living Room | 11 | D | Window Sill | WOOD | FAIR | WHITE | 5.34 | Negative | 0.7 | 0.3 |
| 931 | 9022/IC | 1 | Living Room | 11 | D | Window Sill | WOOD | FAIR | WHITE | 2.67 | Negative | 0.6 | 0.1 |
| 932 | 9022/IC | 1 | Living Room | 11 | D | Window Casing | WOOD | FAIR | WHITE | 3.51 | Negative | < LOD | 0.35 |
| 933 | 9022/IC | 1 | Living Room | 11 | D | Mini Blinds | VINYL | FAIR | WHITE | 1 | Negative | < LOD | 0.03 |
| 934 | 9022/IC | 1 | Living Room | 11 | B | Door Casing | WOOD | FAIR | WHITE | 2.54 | Negative | < LOD | 0.24 |
| 935 | 9022/IC | 1 | Living Room | 11 | B | Door | WOOD | FAIR | WHITE | 6.29 | Negative | < LOD | 0.47 |
| 936 | 9022/IC | 1 | Living Room | 11 | D | Mini Blinds | VINYL | FAIR | WHITE | 1.47 | Negative | < LOD | 0.03 |
| 937 | 9022/IC | 1 | Kitchen | 6 | A | Floor | VINYL | FAIR | Beige | 1 | Negative | < LOD | 0.03 |
| 938 | | | | | | Calibrate | | | | 1 | Null | 1 | 0.5 |
| **939** | | | | | | **Calibrate** | | | | **1** | **Positive** | **1** | **0.1** |
| **940** | | | | | | **Calibrate** | | | | **1.01** | **Positive** | **1** | **0.1** |

| No | XRF/Insp | Floor | ROOM | # | Wall | COMPONENT | SUBSTRATE | CONDITION | COLOR | DI | Results | PbC mg/cm² | PbC Error mg/cm² |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 941 | | | | | | Calibrate | | | | 1.04 | Positive | 1.1 | 0.1 |

**NOTES:** The soffit, fascia, and upper walls on the exterior of the dwelling are too high to test. These exterior building components are painted wood that is in fair or poor condition, and need to be included in the lead reduction work. All first and second floor windows are vinyl inserts that do not contain lead.

| No | XRF/Insp | Floor | ROOM | # | Wall | COMPONENT | SUBSTRATE | CONDITION | COLOR | DI | Results | PbC mg/cm² | PbC Error mg/cm² |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1289 | | | | | | Shutter Calibrate | | | | | 372.66 | 3.36 | 0 |
| **1290** | | | | | | **Calibrate** | | | | **1.12** | **Positive** | **1** | **0.1** |
| **1291** | | | | | | **Calibrate** | | | | **1.13** | **Positive** | **1.1** | **0.1** |
| **1292** | | | | | | **Calibrate** | | | | **1.14** | **Positive** | **1.1** | **0.1** |
| **1293** | | | | | | **Calibrate** | | | | **1.36** | **Positive** | **3.8** | **1.7** |
| 1294 | | | | | | Calibrate | | | | 1 | Negative | 0.28 | 0.15 |
| 1295 | 25845/BJ | SECOND | UPPER BR | 13 | A | Clst Wall | DRYWALL | FAIR | WHITE | 1 | Negative | < LOD | 0.03 |
| 1296 | 25845/BJ | SECOND | UPPER BR | 13 | A | Clst Shelf | WOOD | INTACT | Grey | 1 | Negative | < LOD | 0.03 |
| 1297 | 25845/BJ | SECOND | UPPER BR | 13 | A | Clst Bracket | WOOD | FAIR | WHITE | 1 | Negative | < LOD | 0.03 |
| 1298 | 25845/BJ | SECOND | UPPER BR | 13 | A | Clst Floor | WOOD | FAIR | NATRL | 1.52 | Negative | < LOD | 0.04 |
| 1299 | 25845/BJ | SECOND | UPPER BR | 13 | A | Clst Baseboard | WOOD | INTACT | Grey | 1 | Negative | < LOD | 0.03 |
| 1300 | 25845/BJ | SECOND | UPPER BR | 13 | A | Clst Hatch | WOOD | FAIR | Grey | 1 | Negative | < LOD | 0.03 |
| 1301 | 25845/BJ | SECOND | UPPER BR | 13 | A | Clst Hatch Cas | WOOD | FAIR | Grey | 1.1 | Negative | < LOD | 0.04 |
| 1302 | 25845/BJ | SECOND | UPPER BR | 13 | A | Clst Door Jmb | WOOD | FAIR | Grey | 1 | Negative | < LOD | 0.03 |
| 1303 | 25845/BJ | SECOND | UPPER BR | 13 | A | Clst Door | WOOD | FAIR | Grey | 4.77 | Negative | < LOD | 0.25 |
| 1304 | 25845/BJ | SECOND | UPPER BR | 13 | A | Clst Door Thrsh | WOOD | FAIR | Grey | 1 | Negative | < LOD | 0.03 |
| 1305 | 25845/BJ | SECOND | UPPER BR | 13 | A | Clst Ceiling | DRYWALL | FAIR | WHITE | 1 | Negative | < LOD | 0.03 |
| 1306 | 25845/BJ | SECOND | UPPER BR | 13 | A | Wall | DRYWALL | FAIR | Grey | 1.2 | Negative | < LOD | 0.03 |
| 1307 | 25845/BJ | SECOND | UPPER BR | 13 | B | Wall | DRYWALL | FAIR | Grey | 1 | Negative | < LOD | 0.03 |
| 1308 | 25845/BJ | SECOND | UPPER BR | 13 | C | Clst Wall | DRYWALL | FAIR | Beige | 1 | Null | < LOD | 0.03 |
| 1309 | 25845/BJ | SECOND | UPPER BR | 13 | D | Wall | DRYWALL | FAIR | Grey | 1.87 | Negative | < LOD | 0.05 |
| 1310 | 25845/BJ | SECOND | UPPER BR | 13 | D | Ceiling | DRYWALL | INTACT | WHITE | 1 | Negative | < LOD | 0.03 |
| 1311 | 25845/BJ | SECOND | UPPER BR | 13 | D | Floor | WOOD | FAIR | NATRL | 1 | Negative | < LOD | 0.03 |
| 1312 | 25845/BJ | SECOND | UPPER BR | 13 | D | Baseboard | WOOD | FAIR | Grey | 1 | Negative | < LOD | 0.04 |
| **1313** | **25845/BJ** | **SECOND** | **UPPER BR** | **13** | **D** | **Window Sill** | **WOOD** | **FAIR** | **Grey** | **2.02** | **Positive** | **3.8** | **1.8** |
| 1314 | 25845/BJ | SECOND | UPPER BR | 13 | D | Window Casing | WOOD | FAIR | Grey | 2.15 | Negative | < LOD | 0.11 |
| 1315 | 25845/BJ | SECOND | UPPER BR | 13 | D | Window Sash | VINYL | INTACT | WHITE | 1 | Negative | < LOD | 0.03 |
| 1316 | 25845/BJ | SECOND | UPPER BR | 13 | D | Mini Blinds | VINYL | FAIR | WHITE | 1 | Null | < LOD | 0.03 |
| 1317 | 25845/BJ | SECOND | UPPER BR | 13 | C | Drawer | WOOD | FAIR | Grey | 1.15 | Negative | < LOD | 0.05 |
| 1318 | 25845/BJ | SECOND | UPPER BR | 13 | A | Countertop | LAMINATE | INTACT | Blue | 1 | Negative | < LOD | 0.03 |
| 1319 | 25845/BJ | SECOND | UPPER BR | 13 | A | Railing | VINYL | INTACT | Blue | 2.52 | Negative | < LOD | 0.1 |
| 1320 | 25845/BJ | FIRST | UPPER BR | 13 | A | Str Rail Cap | WOOD | FAIR | NATRL | 1 | Negative | < LOD | 0.03 |
| 1321 | 25845/BJ | FIRST | UPPER BR | 13 | A | Str Tread | WOOD | FAIR | Grey | 1 | Negative | < LOD | 0.04 |
| 1322 | 25845/BJ | FIRST | UPPER BR | 13 | A | Str Risers | WOOD | FAIR | Grey | 1 | Negative | < LOD | 0.04 |
| 1323 | 25845/BJ | FIRST | UPPER BR | 13 | A | Str Baseboard | WOOD | FAIR | Grey | 1 | Negative | < LOD | 0.04 |
| 1324 | 25845/BJ | FIRST | UPPER BR | 13 | A | Str Wall | DRYWALL | FAIR | Grey | 1 | Negative | < LOD | 0.03 |
| 1325 | 25845/BJ | FIRST | UPPER BR | 13 | A | Door Casing | WOOD | FAIR | Grey | 1 | Negative | < LOD | 0.03 |
| 1326 | 25845/BJ | FIRST | UPPER BR | 13 | A | Door Jamb | WOOD | FAIR | Grey | 1 | Negative | < LOD | 0.03 |
| 1327 | 25845/BJ | FIRST | UPPER BR | 13 | A | Door | WOOD | FAIR | Grey | 4.56 | Negative | < LOD | 0.52 |

| No | XRF/Insp | Floor | ROOM | # | Wall | COMPONENT | SUBSTRATE | CONDITION | COLOR | DI | Results | PbC mg/cm² | PbC Error mg/cm² |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1328 | 25845/BJ | FIRST | Front Entry | 12 | A | Wall | PLASTER | INTACT | Yellow | 3.12 | Negative | < LOD | 1.46 |
| 1329 | 25845/BJ | FIRST | Front Entry | 12 | B | Wall | PLASTER | INTACT | Yellow | 4.61 | Negative | < LOD | 1.11 |
| 1330 | 25845/BJ | FIRST | Front Entry | 12 | C | Wall | PLASTER | INTACT | Yellow | 2.48 | Null | < LOD | 1.03 |
| 1331 | 25845/BJ | FIRST | Front Entry | 12 | C | Wall | PLASTER | INTACT | Yellow | 4.95 | Null | 0.5 | 0.2 |
| 1332 | 25845/BJ | FIRST | Front Entry | 12 | C | Wall | PLASTER | INTACT | Yellow | 3.68 | Negative | < LOD | 1.16 |
| 1333 | 25845/BJ | FIRST | Front Entry | 12 | D | Clst Wall | PLASTER | FAIR | WHITE | 3.8 | Negative | < LOD | 3.07 |
| 1334 | 25845/BJ | FIRST | Front Entry | 12 | D | Ceiling | PLASTER | INTACT | WHITE | 10 | Negative | < LOD | 1.25 |
| 1335 | 25845/BJ | FIRST | Front Entry | 12 | C | Floor | CERAMIC | INTACT | Beige | 1.43 | Negative | < LOD | 0.04 |
| 1336 | 25845/BJ | FIRST | Front Entry | 12 | C | Baseboard | WOOD | FAIR | WHITE | 3.83 | Negative | < LOD | 0.38 |
| 1337 | 25845/BJ | FIRST | Front Entry | 12 | A | Door Casing | WOOD | FAIR | WHITE | 4.54 | Negative | < LOD | 0.6 |
| 1338 | 25845/BJ | FIRST | Front Entry | 12 | A | Door | WOOD | FAIR | WHITE | 6.33 | Negative | < LOD | 0.59 |
| 1339 | 25845/BJ | FIRST | Front Entry | 12 | D | Clst Shelf | WOOD | FAIR | WHITE | 1.6 | Negative | < LOD | 0.15 |
| 1340 | 25845/BJ | FIRST | Front Entry | 12 | D | Clst Door | WOOD | FAIR | WHITE | 3.37 | Negative | < LOD | 0.38 |
| 1341 | 25845/BJ | FIRST | Front Entry | 12 | D | Clst Mail Box | WOOD | FAIR | WHITE | 1.76 | Negative | < LOD | 0.06 |
| **1342** | | | | | | **Calibrate** | | | | **1.09** | **Positive** | **1** | **0.1** |
| **1343** | | | | | | **Calibrate** | | | | **1.1** | **Positive** | **1** | **0.1** |
| **1344** | | | | | | **Calibrate** | | | | **1.18** | **Positive** | **1.1** | **0.1** |

**NOTES:** All first and second floor windows are vinyl inserts that do not contain lead.

**Appendix C:**
**Analytical Results---Attached**

**Analytical Laboratories:**
**Legend Technical Services, Inc.**
AIHA #101095
88 Empire Drive
St. Paul, MN 55103
651-642-1150

**Schneider Laboratories, Inc.**
AIHA #100527
2512 West Cary Street
Richmond, VA 23220-5117
804-353-6778

**EMSL Analytical, Inc**
Primary Facility
AHIA #163162
14375 23rd Ave N
Minneapolis, MN 55447
763-449-4922

**EMSL Analytical, Inc**
Back-up Facility
AIHA #100194
3 Cooper St
Westmont, MJ 08108
800-220-3675

Dust wipes and soil samples collected by Minnesota licensed risk assessors and according to HUD guidelines in accordance with the Hennepin County Housing, Community Works and Transit protocols.

A copy of the analytical results is attached. The US Environmental Protection Agency Dust Wipe standards are listed below. If a dust wipe exceeds these standards, the lead dust is considered a lead hazard. The Minnesota Soil Hazard level is listed below. If a soil sample exceeds the standard, the soil is considered a lead hazard.

| | |
|---|---|
| Floor Wipe (FW) | 40 $\mu/ft^2$ |
| Window Sill (WS) | 250 $\mu/ft^2$ |
| Window Well (WW) | 400 $\mu/ft^2$ |
| Soil | 100 ppm |

# SCHNEIDER LABORATORIES GLOBAL

INCORPORATED
2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • (FAX) 804-359-1475
***Over 25 Years of Excellence in Service and Technology***
**AIHA/ELLAP 100527, ISO/IEC 17025, NVLAP 101150-0, VELAP 460135, NYELAP/NELAC 11413**

## LABORATORY ANALYSIS REPORT

Lead Analysis based on EPA 7000B Method
Using SLI P27 A14

**ACCOUNT #:** 4040-12-1565
**CLIENT:** Hennepin CO Dept Housing Community
**ADDRESS:** 701 4th Avenue South
Minneapolis, MN 55415
**PROJECT NAME:**
**JOB LOCATION:** 4330 Logan Ave N
**PROJECT NO.:**
**PO NO.:** HNCTY-50762

**DATE RECEIVED:** 1/30/2012
**DATE ANALYZED:** 1/30/2012
**DATE REPORTED:** 1/31/2012

**Sample Type:** WIPE

| SLI Sample No. | Client Sample No. | Collection Date | | Sample Description | Sample Area ($ft^2$) | Total Lead (µg)* | Lead Conc ($µg/ft^2$) |
|---|---|---|---|---|---|---|---|
| 31335297 | 01 | 1/27/2012 | 10:30 AM | FW Bsmt V | 1.00 | 102.2 | 102.2 |
| 31335298 | 02 | 1/27/2012 | 10:30 AM | FW Entry Crm | 1.00 | 150.4 | 150.4 |
| 31335299 | 03 | 1/27/2012 | 10:30 AM | WW LR V | 0.25 | 270.1 | 1,080.3 |
| 31335300 | 04 | 1/27/2012 | 10:30 AM | FW SE BR W | 1.00 | < 10.0 | < 10.0 |
| 31335301 | 05 | 1/27/2012 | 10:30 AM | WS SE BR W | 0.22 | 107.5 | 488.9 |
| 31335302 | 06 | 1/27/2012 | 10:30 AM | FW Bath CRM | 1.00 | < 10.0 | < 10.0 |
| 31335303 | 07 | 1/27/2012 | 10:30 AM | FW Upper BR W | 1.00 | < 10.0 | < 10.0 |
| 31335304 | 08 | 1/27/2012 | 10:30 AM | WS Upper BR W | 0.25 | 20.0 | 80.1 |
| 31335305 | 09 | 1/27/2012 | 10:30 AM | WW Upper BR V | 0.27 | 772.3 | 2,860.5 |
| 31335306 | 10 | 1/27/2012 | 10:30 AM | Field Blank | | < 10.0 | |

Analysis Run ID: 49394

**Analyst:** **MOHAMMED ELTILIB**
**Total Number of Pages in Report: 1**
Results relate only to samples as received by the laboratory.

Tammie Olagbaju

**Reviewed By** **Tammie Olagbaju, QA Analyst**
Visit www.slabinc.com for current certifications.

Final concentration calculations are based on client supplied information.

*Minimum Reporting Limit: 10.0 µg. EPA Lead Hazard Std: 40 $µg/ft^2$ floors and 250 $µg/ft^2$ interior window sills, based on weighted avg of all samples taken. EPA Clearance Std: 40 $µg/ft^2$ floors, 250 $µg/ft^2$ interior window sills, 400 $µg/ft^2$ window troughs. MDLs and resulting reporting limits are based on ASTM E 1792 compliant media. *Data precision justifies 2 sig figures. All internal QC parameters were met. Unusual sample conditions, if any, are described.*

**SCHNEIDER LABORATORIES GLOBAL, INC.**
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804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com e-mail: info@slabinc.com

WO: WorkOrderKey V: \ 865 \ 865087

| | | | |
|---|---|---|---|
| Submitting Co. | HENNEPIN CO DEPT HOUSING COMMUNITY | Lab Use-WO # | 4040-12-865 |
| 701 4TH AVENUE SOUTH | | Acct # | 4040 |
| MINNEAPOLIS, MN 55415 | | Phone # / Fax # & E-mail | 1-612-348-2117 / 1-612-348-2920 |

Project Name:
Project Location: 4330 LOGAN AVE N.
Project Number:
PO Number:
Special Instructions [include requests for special reporting or data packages]
State Of Collection: MN

**Turn Around Time**
- ☐ 2 hours*
- ☐ Same day*
- ☐ 1 business day*
- ☐ 2 business day*
- ☒ 3 business days*
- ☐ 5 business days*
- ☐ Full TCLP (10d)
- ☐ Weekend*

* not available for all tests

*Schedule rush organics, multi-metals & weekend tests in advance.*

**Matrix / Sample Type (Select ONE)**
*All samples on form should be of SAME matrix type. Use additional forms as needed.*
- ☐ Air
- ☐ Aqueous
- ☐ Bulk
- ☐ Hi-Vol Filter (PM10)
- ☐ Hi-Vol Filter (TSP)
- ☐ Oil
- ☐ Paint
- ☐ Sludge
- ☐ Soil
- ☐ Solid
- ☐ Waste
- ☐ Wastewater
- ☐ Water,Drinking
- ☐ Compliance
- ☒ Wipe
- ☐ Wipe, Composite
- ☐ _____

**Tests / Analytes (Select ALL that Apply)**

**Asbestos Air / Fiber Counts**
- ☐ PCM (NIOSH 7400)
- ☐ TEM (AHERA)
- ☐ TEM (EPA Level II)
- ☐ _____

**Miscellaneous Tests**
- ☐ Total Dust (NIOSH 0500)
- ☐ Resp. Dust (NIOSH 0600)
- ☐ Silica - FTIR (NIOSH 7602)
- ☐ Silica - XRD (NIOSH 7500)
- ☐ _____

**Asbestos Bulk / Asb ID**
- ☐ PLM (EPA 600/R-93/116)
- ☐ PLM (EPA Point Count)
- ☐ PLM (Qualitative only)
- ☐ NYELAP 198.1/.4/.6
- ☐ CAELAP (EPA Interim)
- ☐ TEM (Chatfield)
- ☐ _____

**FOR ASBESTOS AIR:**
TYPE OF RESPIRATOR USED:

**Metals-Total Conc.**
- ☒ Lead
- ☐ RCRA Metals
- ☐ _____
- ☐ _____

**Metals-Extract**
- ☐ TCLP / Lead
- ☐ TCLP / RCRA Metals
- ☐ TCLP / Full (w/ organics)

**Others**
- ☐ _____

| Sample # | Date Sampled | Time Sampled | Sample Identification (e.g. Employee, SSN, Bldg, Material) | Wiped Area (ft²) | Type[1] A,B,P,E | Time[2] Start | Time[2] Stop | Flow Rate[3] Start | Flow Rate[3] Stop | Total[4] Air Vol |
|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 1/27/12 | 10:30AM | FW, BSMT, V | 12"x12" | | | | | | |
| 02 | ↓ | ↓ | FW, ENTRY, CRM | 12"x12" | | | | | | |
| 03 | | | WW, LR, V | 12"x3" | | | | | | |
| 04 | | | FW, SE BR, W | 12"x12" | | | | | | |
| 05 | | | WS, SE BR, W | 12½"x2½" | | | | | | |
| 06 | | | FW, BATH, CRM | 12"x12" | | | | | | |
| 07 | | | FW, UPPR BR, W | 12"x12" | | | | | | |
| 08 | | | WS, UPPR BR, W | 14¼"x2½" | | | | | | |
| 09 | | | WW, UPPR BR, V | 15⅛"x3" | | | | | | |
| 10 | ↓ | ↓ | FIELD BLANK | | | | | | | |

[1]Type: A=area B=blank P=personal E=excursion [2]Beginning/End of Sample Period [3]Pump Calibration in Liters/Minute [4]Volume in Liters [time in min * flow in L/min]

Sampled by
NAME Ben Jones
SIGNATURE Ben Jones
DATE/TIME 1/27/12 10:30AM

Relinquished to lab by
NAME Ben Jones
SIGNATURE Ben Jones
DATE/TIME 1/27/12 6:00PM

RECEIVED

☐ FX ☐ UPS ☐ USM ☐ HD ☐ DB

WB: _____

☐ Sample return requested ☐ Ambient temp ☐ Ice °C pH Cl ☐R ☐S ☐X

Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.

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# SCHNEIDER LABORATORIES GLOBAL

INCORPORATED
2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • (FAX) 804-359-1475
***Over 25 Years of Excellence in Service and Technology***
**AIHA/ELLAP 100527, ISO/IEC 17025, NVLAP 101150-0, VELAP 460135, NYELAP/NELAC 11413**

## LABORATORY ANALYSIS REPORT

Lead Analysis based on EPA 7000B Method
Using SLI P26 A14

**ACCOUNT #:** 4040-12-1566
**CLIENT:** Hennepin CO Dept Housing Community
**ADDRESS:** 701 4th Avenue South
Minneapolis, MN 55415
**PROJECT NAME:**
**JOB LOCATION:** 4330 Logan Ave N.
**PROJECT NO.:**
**PO NO.:** HNCTY-50762

**DATE RECEIVED:** 1/30/2012
**DATE ANALYZED:** 1/31/2012
**DATE REPORTED:** 2/1/2012
**Sample Type:** SOIL

| SLI Sample No. | Client Sample No. | Collection Date | Sample Description | Sample Wt (mg) | Total Lead (µg)* | Lead Conc (% by wt) | Lead Conc PPM |
|---|---|---|---|---|---|---|---|
| 31335488 | 01 | 1/27/2012 11:00 AM | Foundation | 563 | 48.1 | 0.009 | 85 |

Analysis Run ID: 49400

**Analyst:** **Omar H. Elshowaya**
**Total Number of Pages in Report: 1**
Results relate only to samples as received by the laboratory.

Abisola O Kasali
**Reviewed By** **Abisola O. Kasali, Metals Supervisor**
Visit www.slabinc.com for current certifications.

*Minimum Reporting Limit: 10.0 µg. EPA Soil Std for bare residential soil: 400 ppm by wt in play areas; 1200 ppm by wt in bare soil in the remainder of the yard based on an avg of all other samples collected. EPA does not distinguish between lead-contaminated soil and soil-lead hazards. Soil samples are tested as received unless noted as "Dried before analysis." *Data precision justifies 2 sig. figures. All internal QC parameters were met. Unusual sample conditions, if any, are described.*

# SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117

804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

www.slabinc.com e-mail: info@slabinc.com

WI

WorkOrderKey

V: \ 865 \ 865095

| | | | |
|---|---|---|---|
| Submitting Co. | HENNEPIN CO DEPT HOUSING COMMUNITY | Lab Use-WO # | 4040-12-1566 |
| 701 4TH AVENUE SOUTH | | Acct # | 4040 |
| MINNEAPOLIS, MN 55415 | | Phone # | 1-612-348-2117 |
| | | Fax # & E-mail | 1-612-348-2920 |

| | | | |
|---|---|---|---|
| Project Name: | | Special Instructions [include requests for special reporting or data packages] | |
| Project Location: | 4330 LOGAN AVE N. | | |
| Project Number: | | | |
| PO Number: | | State Of Collection | MN |

**Turn Around Time**

- ☐ 2 hours*
- ☐ Same day*
- ☐ 1 business day*
- ☐ 2 business day*
- ☐ 3 business days*
- ☒ 5 business days*
- ☐ Full TCLP (10d)
- ☐ Weekend*

* not available for all tests

*Schedule rush organics, multi-metals & weekend tests in advance.*

**Matrix / Sample Type (Select ONE)**

*All samples on form should be of SAME matrix type. Use additional forms as needed.*

| | |
|---|---|
| ☐ Air | ☐ Solid |
| ☐ Aqueous | ☐ Waste |
| ☐ Bulk | ☐ Wastewater |
| ☐ Hi-Vol Filter (PM10) | ☐ Water,Drinking |
| ☐ Hi-Vol Filter (TSP) | ☐ Compliance |
| ☐ Oil | ☐ Wipe |
| ☐ Paint | ☐ Wipe, Composite |
| ☐ Sludge | ☐ _____ |
| ☒ Soil | ☐ |

**Tests / Analytes (Select ALL that Apply)**

**Asbestos Air / Fiber Counts**

- ☐ PCM (NIOSH 7400)
- ☐ TEM (AHERA)
- ☐ TEM (EPA Level II)
- ☐

**Miscellaneous Tests**

- ☐ Total Dust (NIOSH 0500)
- ☐ Resp. Dust (NIOSH 0600)
- ☐ Silica - FTIR (NIOSH 7602)
- ☐ Silica - XRD (NIOSH 7500)
- ☐

**Asbestos Bulk / Asb ID**

- ☐ PLM (EPA 600/R-93/116)
- ☐ PLM (EPA Point Count)
- ☐ PLM (Qualitative only)
- ☐ NYELAP 198.1/.4/.6
- ☐ CAELAP (EPA Interim)
- ☐ TEM (Chatfield)
- ☐

**FOR ASBESTOS AIR:**

TYPE OF RESPIRATOR USED:

**Metals-Total Conc.**

- ☒ Lead
- ☐ RCRA Metals
- ☐ _____
- ☐

**Metals-Extract**

- ☐ TCLP / Lead
- ☐ TCLP / RCRA Metals
- ☐ TCLP / Full (w/ organics)

**Others**

- ☐

| Sample # | Date Sampled | Time Sampled | Sample Identification (e.g. Employee, SSN, Bldg, Material) | Wiped Area (ft²) | Type[1] A,B,P,E | Time[2] Start | Time[2] Stop | Flow Rate[3] Start | Flow Rate[3] Stop | Total[4] Air Vol |
|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 1/27/12 | 11:00 | FOUNDATION | | | | | | | |
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8300

[1]Type: A=area B=blank P=personal E=excursion [2]Beginning/End of Sample Period [3]Pump Calibration in Liters/Minute [4]Volume in Liters [time in min * flow in L/min]

| Sampled by | Relinquished to lab by |
|---|---|
| NAME Ben Jones | NAME Ben Jones |
| SIGNATURE | SIGNATURE |
| DATE/TIME 1/27/12 11:00AM | DATE/TIME 1/27/12 6:00PM |

☐ FX ☐ UPS ☐ USM ☐ HD ☐ DB

WB: _____

☐ Sample return requested ☐ Ambient temp ☐ Ice ___ °C pH Cl ☐R ☐S ☐X

*Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.*

**Hennepin County Housing, Community Works and Transit**

Appendix D

# Lead Hazard Reduction Recommendations

GMHC - Greater Metropolitan Housing Corporation
15 S 5th St Suite 710
Minneapolis MN 55402

Date: 2/10/2012
RE: 4330 Logan AVE N
Risk Assessor: Jones

Lead Hazard Prioritization: All of the lead hazards listed in the attached lead hazard reduction recommendations can result in lead exposure and should be treated. All lead hazards are **required** to be treated if this property is enrolled in the Hennepin County lead grant program. Lead coated windows and the associated lead dust pose the greatest exposure risk to occupants and if present are prioritized by appearing first in the lead hazard reduction recommendations.

The following recommendations are written based on results of the risk assessment conducted on 1/27/2012.

**See attatched specifications:**

# Lead Hazard Reduction Recommendations

**4330 Logan AVE N - , Minneapolis MN 55412**

## All Interior Rooms - (01)

### *Structure: Miscellaneous* *Feature: Dust*

**Comment: Window wells, window sills, and floors.**

Lead Dust Option 1 SMOOTH FLOORS AND WINDOW COMPONENTS (Interim Control Measure)

*Treat all smooth floors and window components with the following method. First vacuum area with HEPA vacuum. Next wet-wash with a lead specific detergent with single use paper towels followed by clean water rinse. Finally, vacuum again with HEPA vacuum*

Lead Dust Option 2 CARPET (Interim Control Measure)

*HEPA vacuum with beater bar attachment or professionally steam clean carpet with two passes in perpendicular directions.*

## All Interior Rooms - (01)

### *Structure: Windows* *Feature: Window*

**Comment: Cellar windows only.**

Window Option 1 WINDOW REPLACEMENT – TOTAL (Abatement Measure)

*Remove package and dispose of entire window unit. Install a pre-hung qualified window unit. Replace casing and/or trim to match original. Prime and topcoat.*

Window Option 2 WINDOW REPLACEMENT - VINYL WINDOW (Abatement Measure)

*Remove, package and dispose of sashes, parting bead and inner stops. Remove the sash weight. Insulate the sash weight pocket with fiberglass. Install a PVC, one-over-one, double hung, double-glazed combination window with at least a 1/2 screen. Caulk all seams with siliconized acrylic caulk. Install inner stops; if original inner stops are reused, edges are to be sanded smooth and nail holes/dents puttied. Prime and top coat stops with high quality latex or alkyd paint. Laminate and back-caulk outer stop.*

Window Option 3 WINDOW REPLACEMENT - JAMB LINER PACKAGE (Abatement Measure)

*Remove, package and dispose of sashes, parting beads and inner stops. Inner stops may be reused if architecturally necessary for appearance. Remove the sash weight. Insulate the sash weight pocket. Wet scrape jambs and well. HEPA vacuum all visible dust. Coat jambs and well from inner stops to inner edge of storm window. Install a wood double hung, double-glazed, one-over-one window with vinyl jamb liner or oriel window with vinyl jamb liner. If oriel window, top sash may be fixed. Sashes to be primed/sealed and finish coated to match existing paint or varnish. Laminate and back-caulk well and outer stops with .032 aluminum or vinyl coil stock. Install inner stops, prime and top coat with high quality latex or alkyd paint. If original inner stops are reused, edges are to be sanded smooth and nail holes/dents puttied. Install quality sash lock and handle(s) on lower sash.*

Window Option 4 STRIP TO BARE WOOD (Abatement Measure)

*Scrape to bare substrate interior and exterior of sashes, interior stops, parting stops, outer stops, header, jamb, well and stool. Minor residue may be cleaned with paint remover. Wash surface with a lead specific detergent or equivalent, rinse, prime*

Window Option 5 STABILIZE AND PAINT - ENCLOSE WELL (Interim Control Measure)

*Wet scrape all interior and exterior window components including sashes, jambs and stops. Re-glaze as required. Laminate well with back-caulked aluminum or vinyl coil stock. HEPA vacuum all visible dust. Spot prime and topcoat interior and exterior co*

Window Option 6 STABILIZE AND PAINT (Interim Control Measure)

*Wet scrape all interior and exterior window components including sashes, jambs and stops. Re-glaze as required. HEPA vacuum all visible dust. Spot prime and topcoat interior and exterior components.*

## Exterior Dwelling - (02)

### *Structure: Doors* *Feature: Door*

**Comment: All deteriorating painted wood doors.**

Door Option 1 REMOVE AND DISPOSE (Abatement Measure)

*Remove, package and dispose of door, jamb and casing. Install pre-hung door. Re-trim opening. Prime and topcoat.*

Door Option 2 STRIP TO BARE WOOD (Abatement Measure)

*Scrape to bare substrate all sides of the door(s) noted. Minor residue may be cleaned with paint remover. Package and dispose of paint residue. Wash surfaces with a lead specific detergent or equivalent, rinse. Plane door edges and adjust hasp and str*

Door Option 3 PLANE AND ADUST (Interim Control Measure)

*Plane door edges and adjust hasp and strike plate to minimize door/jamb friction and contact. Clean, spot prime/seal, and topcoat.*

Door Option 4 STABILIZE AND PAINT (Interim Control Measure)

*Stabilize paint by wet scraping and HEPA vacuuming. Clean, spot prime, and topcoat.*

## Exterior Dwelling - (02)

### *Structure: Doors* *Feature: Door Threshold*

**Comment: All deteriorating painted door thresholds.**

Door Threshold Option 1 REMOVE AND DISPOSE (Abatement Measure)

*Remove, package and dispose of lead painted door threshold and/or doorsill. Install replacement components.*

Door Threshold Option 2 ENCLOSE DOOR THRESHOLD/SILL (Abatement Measure)

*Cut Aluminum coil stock to fit over threshold. Back caulk with siliconized acrylic caulk. Apply coil stock and nail or tack in place.*

Door Threshold Option 3 STRIP TO BARE WOOD (Abatement Measure)

*Scrape to bare substrate component noted. Minor residue may be cleaned with paint remover. Package and dispose of paint residue. Wash surface with a lead specific detergent or equivalent, rinse, prime, and topcoat. Dry scraping/sanding or operation of*

Door Threshold Option 4 STABILIZE AND PAINT (Interim Control Measure)

*Mist defective paint area with water. Lightly scrape all loose paint. Rinse and HEPA vacuum all visible chips. Allow surface to dry, seal and topcoat.*

# Lead Hazard Reduction Recommendations

**4330 Logan AVE N - , Minneapolis MN 55412**

## Exterior Dwelling - (02)

### *Structure: Exterior Building Components  Feature: Exterior Trim*

**Comment: Window trim and cellar window trim, door trim and jambs, soffit, and fascia.**

Exterior Trim Option 1 REMOVE AND DISPOSE (Abatement Measure)

*Remove, package and dispose of molding, trim or specified component. Replace components, and caulk with siliconized acrylic. Prep, prime and topcoat.*

Exterior Trim Option 2 ENCLOSE (Abatement Measure)

*Stabilize surface by wet scraping and HEPA vacuuming. Enclose trim with aluminum coil stock. Back caulk all seams with siliconized acrylic caulk to create an airtight installation.*

Exterior Trim Option 3 STABILIZE AND PAINT (Interim Control Measure)

*Mist defective paint area with water. Lightly scrape all loose paint. Allow surface to dry; spot prime and topcoat.*

## Exterior Dwelling - (02)

### *Structure: Exterior Building Components  Feature: Exterior Wall/Siding*

**Comment: All deteriorating wood walls including the upper wall/gable.**

Exterior Wall Option 1 REMOVE AND DISPOSE (Abatement Measure)

*Remove, package, and dispose of siding. Weatherize exterior walls.*

Exterior Wall Option 2 ENCLOSE (Abatement Measure)

*Stencil "Lead Paint" at four-foot intervals on existing surface. Apply a Tyvek or equivalent vapor barrier to enclose the lead containing paint. Protect Tyvek with vinyl or aluminum siding installed in accordance with manufacturer' specifications.*

Exterior Wall Option 3 STABILIZE AND PAINT (Interim Control Measure)

*Mist defective paint with water to the point of saturation. Lightly scrape all loose paint. Rinse and allow to dry. Spot prime and topcoat.*

## Garage - (03)

### *Structure: Exterior Building Components  Feature: Exterior Trim*

**Comment: All painted window components and overhead door casing.**

Exterior Trim Option 1 REMOVE AND DISPOSE (Abatement Measure)

*Remove, package and dispose of molding, trim or specified component. Replace components, and caulk with siliconized acrylic. Prep, prime and topcoat.*

Exterior Trim Option 2 ENCLOSE (Abatement Measure)

*Stabilize surface by wet scraping and HEPA vacuuming. Enclose trim with aluminum coil stock. Back caulk all seams with siliconized acrylic caulk to create an airtight installation.*

Exterior Trim Option 3 STABILIZE AND PAINT (Interim Control Measure)

*Mist defective paint area with water. Lightly scrape all loose paint. Allow surface to dry; spot prime and topcoat.*

## Garage - (03)

### *Structure: Exterior Building Components* *Feature: Exterior Wall/Siding*

**Comment: Walls.**

Exterior Wall Option 1 REMOVE AND DISPOSE (Abatement Measure)

*Remove, package, and dispose of siding. Weatherize exterior walls.*

Exterior Wall Option 2 ENCLOSE (Abatement Measure)

*Stencil "Lead Paint" at four-foot intervals on existing surface. Apply a Tyvek or equivalent vapor barrier to enclose the lead containing paint. Protect Tyvek with vinyl or aluminum siding installed in accordance with manufacturer' specifications.*

Exterior Wall Option 3 STABILIZE AND PAINT (Interim Control Measure)

*Mist defective paint with water to the point of saturation. Lightly scrape all loose paint. Rinse and allow to dry. Spot prime and topcoat.*

## Basement - (04)

### *Structure: Doors* *Feature: Door*

**Comment: Doors.**

Door Option 1 REMOVE AND DISPOSE (Abatement Measure)

*Remove, package and dispose of door, jamb and casing. Install pre-hung door. Re-trim opening. Prime and topcoat.*

Door Option 2 STRIP TO BARE WOOD (Abatement Measure)

*Scrape to bare substrate all sides of the door(s) noted. Minor residue may be cleaned with paint remover. Package and dispose of paint residue. Wash surfaces with a lead specific detergent or equivalent, rinse. Plane door edges and adjust hasp and str*

Door Option 3 PLANE AND ADUST (Interim Control Measure)

*Plane door edges and adjust hasp and strike plate to minimize door/jamb friction and contact. Clean, spot prime/seal, and topcoat.*

Door Option 4 STABILIZE AND PAINT (Interim Control Measure)

*Stabilize paint by wet scraping and HEPA vacuuming. Clean, spot prime, and topcoat.*

## Basement - (04)

### *Structure: Interior Trim* *Feature: Trim*

**Comment: Cellar window trim and door trim.**

Interior Trim Option 1 REMOVE AND DISPOSE (Abatement Measure)

*Remove, package and dispose of lead painted trim. Repair wall areas damaged in removal process. Install replacement components. Prime and topcoat.*

Interior Trim Option 2 ENCLOSE (Abatement Measure)

*Stabilize surface by wet scraping and HEPA vacuuming. Enclose trim with a durable material. Caulk all seams and joints with caulk to create an airtight installation.*

Interior Trim Option 3 STRIP TO BARE WOOD (Abatement Measure)

*Scrape to bare substrate of trim members noted. Minor residue may be cleaned with paint remover. Package and dispose of paint residue. Wash surface with a lead specific detergent or equivalent, rinse, prime, and topcoat. Dry scraping/sanding or operat*

Interior Trim Option 4 ENCAPSULATE - (Non-Friction Surfaces Only) (Abatement Measure)

*Remove package and dispose of all failing substrate. Stabilize all deteriorated paint on sound substrate. Apply 20-year lead-based paint specific encapsulate according to manufacturer's specifications.*

Interior Trim Option 5 STABILIZE AND PAINT OR VARNISH (Interim Control Measure)

*Mist defective paint area with water. Lightly scrape all loose paint. Rinse and HEPA vacuum all visible chips. Allow surface to dry, seal and topcoat.*

## SE Bedroom - (10)

### *Structure: Interior Trim* *Feature: Trim*

**Comment: Window trim.**

Interior Trim Option 1 REMOVE AND DISPOSE (Abatement Measure)

*Remove, package and dispose of lead painted trim. Repair wall areas damaged in removal process. Install replacement components. Prime and topcoat.*

Interior Trim Option 2 ENCLOSE (Abatement Measure)

*Stabilize surface by wet scraping and HEPA vacuuming. Enclose trim with a durable material. Caulk all seams and joints with caulk to create an airtight installation.*

Interior Trim Option 3 STRIP TO BARE WOOD (Abatement Measure)

*Scrape to bare substrate of trim members noted. Minor residue may be cleaned with paint remover. Package and dispose of paint residue. Wash surface with a lead specific detergent or equivalent, rinse, prime, and topcoat. Dry scraping/sanding or operat*

Interior Trim Option 4 ENCAPSULATE - (Non-Friction Surfaces Only) (Abatement Measure)

*Remove package and dispose of all failing substrate. Stabilize all deteriorated paint on sound substrate. Apply 20-year lead-based paint specific encapsulate according to manufacturer's specifications.*

Interior Trim Option 5 STABILIZE AND PAINT OR VARNISH (Interim Control Measure)

*Mist defective paint area with water. Lightly scrape all loose paint. Rinse and HEPA vacuum all visible chips. Allow surface to dry, seal and topcoat.*

## Upper Bedroom - (13)

### *Structure: Interior Trim* *Feature: Trim*

**Comment: Window trim.**

Interior Trim Option 1 REMOVE AND DISPOSE (Abatement Measure)

*Remove, package and dispose of lead painted trim. Repair wall areas damaged in removal process. Install replacement components. Prime and topcoat.*

Interior Trim Option 2 ENCLOSE (Abatement Measure)

*Stabilize surface by wet scraping and HEPA vacuuming. Enclose trim with a durable material. Caulk all seams and joints with caulk to create an airtight installation.*

Interior Trim Option 3 STRIP TO BARE WOOD (Abatement Measure)

*Scrape to bare substrate of trim members noted. Minor residue may be cleaned with paint remover. Package and dispose of paint residue. Wash surface with a lead specific detergent or equivalent, rinse, prime, and topcoat. Dry scraping/sanding or operat*

Interior Trim Option 4 ENCAPSULATE - (Non-Friction Surfaces Only) (Abatement Measure)

*Remove package and dispose of all failing substrate. Stabilize all deteriorated paint on sound substrate. Apply 20-year lead-based paint specific encapsulate according to manufacturer's specifications.*

Interior Trim Option 5 STABILIZE AND PAINT OR VARNISH (Interim Control Measure)

*Mist defective paint area with water. Lightly scrape all loose paint. Rinse and HEPA vacuum all visible chips. Allow surface to dry, seal and topcoat.*

**Appendix E:**
**Monitoring Schedule**

The preceding lead reduction recommendations include different ways to treat each lead hazard that was identified by the risk assessment. They are listed in order from most effective to least effective. The most effective treatments are considered abatement and require little or no on-going maintenance to preserve a lead safe environment. The less effective treatments are called interim controls and these treatments require an increased amount of on-going maintenance to preserve a lead safe environment.

If no lead dust, soil, or lead-based paint is found, then no monitoring is required.

If no hazards are found, but lead-based paint is found, an owner's visual survey should occur annually. Re-evaluation shall occur if the owner's visual survey reveals lead-based paint surfaces that have deteriorated, or if the survey reveals the failure of encapsulation or enclosure (if applicable). Re-evaluation shall then occur every two years until two consecutive re-evaluations find no hazards.

If lead dust, soil, or lead-based paint hazards are found to be present, choosing all option number ones with removal of all lead-based paint, will result in no monitoring requirements. If abatement options are chosen that include enclosure, then no re-evaluation is required, but the owner should conduct visual surveys every year to ensure the enclosure has not failed. If the interim control options (stabilize and paint) are chosen then an owner's visual survey should be conducted annually and re-evaluation should occur within two years.

If during the initial lead inspection, lead dust levels are found to be more than ten times the standard levels, found in Appendix C, then re-evaluation after interim control measures should occur six months after the hazard reduction.

Lead-based paint found to be intact at the time of assessment is not included in the previous recommendations. These surfaces should be carefully monitored. A list of these surfaces is provided with this Appendix if applicable.

In general, all painted surfaces should be monitored. A negative result does not necessarily indicate that no lead is present in that surface, but rather indicates that any lead present in that surface does not rise above the 1.0 $mg/cm^2$ threshold in the area tested. In addition, during routine maintenance, all painted surfaces should be assumed to contain lead-based paint and treated accordingly unless the included XRF paint testing results indicate that surface does not contain lead-based paint.