Midwest
Environmental
Consulting, L.L.C.

January 27, 2012

Rennie Smith
All Phase Companies, Inc.
404A St. Croix Trail North
Lakeland MN 55043

RE: HUD Lead-Based Paint Inspection and Risk Assessment at the Single Family Residential Property, 914 Jessamine Avenue East, St. Paul, Minnesota (All Phase Phone: 651-436-2930)

Dear Rennie Smith:

At your request, Midwest Environmental Consulting, L.L.C. (MEC) performed a HUD lead-based paint inspection and risk assessment of the single family property located at 914 Jessamine Avenue East, St. Paul, Minnesota on January 21, 2012.

Greg Myers, Environmental Services Director with MEC and licenced lead risk assessor (MN LR #284) performed all field work associated with this project. MEC credentials can be found in Appendix A.

The purpose of this project was to determine whether lead-based paint or other lead hazards are present on the interior or exterior surfaces of the residential property. This report contains the results of the HUD lead-based paint inspection and risk assessment.

The inspection was conducted following the Housing and Urban Development (HUD) *"Guidelines for the Evaluation and Control of Lead-Based Paint in Housing,"* using the October 1997 revised Chapter 7 protocols. The sampling criteria used are those outlined in the HUD Standards 24 CFR Part 35 et al, "*Requirements for Notification Evaluation and Education of Lead-Based Paint Hazards in Federally Owned Residential Property and Housing Receiving Federal Assistance.*" Also included, is an evaluation for lead dust hazards and bare soil hazards as part of the risk assessment.

According to HUD protocol, if the first 5 of a building component are identified as positive for lead-based paint, the remaining like components are assumed to be lead-based paint containing.

SITE DESCRIPTION

The single family residential property located at 914 Jessamine Avenue East, St. Paul, Minnesota is a two story wood framed structure on a stone and concrete basement and

crawl space constructed in approximately the early 1900's. The property appeared to have been used as a duplex. The interior walls and ceilings are a combination of plaster, drywall and wood and nailed on drop in ceiling tiles. The floors are a combination of wood, vinyl and carpet. The exterior has stone fascia with vinyl siding and metal soffits and trim. There is a detached wood framed garage on a concrete slab on the south side of the property with alley access. The garage siding is Masonite with fiberglass over head door and wood trim.

RESULTS OF PAINT INSPECTION

MEC used a paint inspection sampling strategy as described in the HUD *Guidelines* (1995 and revised Chapter 7 in October 1997). The results of portable X-Ray Fluorescence (XRF) spectrum analysis of representative building components in each functional area or room are shown in Appendix B. Results are organized and shown in actual sequence of analysis. All tests were made using a Niton® XLp 303 X-Ray Fluorescence Spectrum Analyzers (Serial # 8790).

XRF analytical results in Appendix B, in the column labeled "Results" represent lead concentrations per square centimeter of painted surface (mg/cm^2).

HUD regulations 24 CFR Part 35 et al, the HUD *Guidelines* and the Minnesota Department of Health (MDH) define the paint action level as lead concentrations at or above the level of 1.0 mg/cm^2 when measured with a portable XRF instrument (0.5% by weight when measured by laboratory methods).

The lead-based paint risk assessment protocol described in the HUD *Guidelines* and the EPA regulations rely on evaluation of surface coatings meeting the definition of poor, planned renovations, presence of dust and soil above current EPA and Minnesota Department of Health (MDH) Standards.

Tests are performed on each test combination. A test combination consists of unique combinations of substrate, color, building component, and location.

XRF results are classified as positive or negative. A positive classification indicates that lead is present on the testing combination at or above the HUD standards. It's important to note that the limited inspection of surfaces tested only applies to those surfaces areas tested and does not meet the requirements of a full HUD lead-based paint inspection and those surface areas not tested would be assumed to contain lead-based paint.

Appendix B includes a record of XRF calibration checks. Those checks were performed on thin films supplied by the XRF manufacturer; they contain known concentrations of lead. The graphs in that appendix show the variation of quality control with time. The

assays in the table of raw data (Appendix B) that are labeled "Calibrate" indicate that they are for quality control. Additional quality control data and information are available to you upon request.

Side A: North, faces Jessamine Avenue
Side B: East, faces residential properties
Side C: South, faces alley
Side D: West, faces residential properties

Specific building components determined to have a lead concentration above the action level of (1.0 mg/cm^2) are listed below:

LOCATION	COMPONENT
Porch	Painted wood door components
Porch	Painted wood baseboards
Porch	Painted wood cornice
Porch	Painted wood walls
Porch	Painted wood crown molding
Porch	Vinyl floor
Stairway 1, Floor 1	Painted wood baseboards
Stairway 1, Floor 1	Painted wood stair skirt, stair treads & stair riser
Stairway 1, Floor 2	Painted wood door components
1st Floor Living Room	Painted wood window components
Bedroom 1	Painted wood closet door components
Bedroom 1	Painted wood cornice
Bedroom 1	Painted wood walls
Bedroom 1	Pressed fiber ceiling tile (depth index indicates lead beneath the tiles)
Bedroom 1	Painted wood closet baseboards
Bedroom 1	Painted closet drywall ceiling
Bedroom 1	Painted wood window components

Bathroom 1	Ceramic tile walls
Bathroom 1	Pressed fiber ceiling tile (depth index indicates lead beneath the tile)
Floor 1 - Kitchen	Painted wood window components
Stairway to basement	Painted wood, plaster and stone walls
Stairway to basement	Painted wood baseboards
Stairway to basement	Painted wood window components (including exterior sash)
Stairway to basement	Painted wood stair treads & stair stringer
Basement - Room 1	Painted stone walls
Porch 2	Painted wood door components
Porch 2	Painted wood walls
Porch 2	Painted drywall ceiling
Bedroom 3	Painted wood baseboards (including closet)
Bedroom 3	Painted wood doors & door components (including closet)
Bedroom 3	Painted wood closet support
Bedroom 3	Painted wood closet walls
Bedroom 3	Painted plaster walls & ceiling
Bedroom 3	Painted wood floor
2nd Floor Living Room	Painted wood door components
2nd Floor Living Room	Painted wood wall
Bedroom 4	Painted wood wall
Bedroom 4	Painted wood floor
Bathroom 2	Ceramic tile wall
Bathroom 2	Vinyl floor
Stairway 2	Painted wood chair rail & wainscoting

Stairway 2	Painted wood transom sash & casing
Stairway 2	Painted wood door components
Stairway 2	Painted wood floor
Stairway 2	Painted wood stair riser
Stairway 2	Painted wood toehead
2nd Floor Kitchen	Painted wood closet door components
2nd Floor Kitchen	Painted wood closet shelf & shelf supports
2nd Floor Kitchen	Painted plaster closet walls
2nd Floor Kitchen	Painted plaster ceiling
Garage - Exterior	Painted wood door components
Garage - Exterior	Masonite siding
Garage- Exterior	Painted wood fascia
Garage - Interior	Painted wood walls and ceiling

Also included in Appendix B of this report is a rating of the condition of paint on components (column titled "Condition"). Comments on the condition include:

Intact: good condition; **Fair:** less than 2 square feet of damage to large interior surface, i.e., wall, less than 10 square feet of damage to large exterior surface, i.e., outside walls, or less than 10% damage to small surface areas, i.e., baseboards, trim, etc.; **Poor:** more than 2 square feet of damage on large interior surfaces, more than 10 square feet of damage to large exterior surface areas, or more than 10% damage to small surface areas.

RESULTS OF LEAD RISK ASSESSMENT

The risk assessment portion of this investigation involved two major phases: collecting information about the property through a visual inspection of the dwelling; and reviewing paint test data and visual assessment notes in order to determine the type, location, and number of samples needed to further identify lead hazards at the property. These samples may consist of paint, dust, soil, and water.

- The date of construction of the residence is approximately the early 1900's
- The property is a single family residential structure that appeared to have been used as a duplex.

- Interior walls and ceilings a combination of plaster, drywall & wood paneling.
- Windows have wood sash packs or vinyl or metal pocket inserts in original jambs.
- The exterior siding is vinyl. There is a stone fascia and metal soffit & trim.
- There is a detached wood sided garage on the south side of the property.
- Bare soil was not observed on the day of the site evaluation.
- The property is currently vacant.

Visual Inspection

MEC conducted an inspection of painted and varnished surfaces on the interior and exterior of the residence. Emphasis was placed on chewable surfaces within 5 feet of the ground or floor.

The results of the visual inspection indicate that the interior and the exterior of the structure is mainly in fair condition with some components in poor or intact condition.

Please note, however, the condition report within the XRF table for painted or varnished surfaces found to be fair or poor, that were below the 1.0 mg/cm^2 action level.

Environmental Sampling Plan

Based on the location of lead-based paint, deteriorated lead-based paint, and information gathered during the visual inspection, MEC formulated the following environmental sampling plan to identify other lead hazards on this property. Water samples were not collected as they were not part of the scope of work for this project. Bare soil was not observed on the day of the site visit due to snow cover. No bare soil samples were collected.

Samples were collected and delivered to EMSL Laboratory (ELLAP 163162), Minneapolis, Minnesota where they were prepared and analyzed using current appropriate protocols for lead. Laboratory results for environmental samples may be found in Appendix C.

Analytical results are reported below for each sample and compared to standard action levels that have been identified for this project.

SAMPLE # DATE	LOCATION	RESULT	PROJECT ACTION LEVEL
502/0112F-W1 1/16/12	Front Entry, Side A, floor	18 $\mu g/ft^2$	40 $\mu g/ft^2$

502/0112F-W2 1/16/12	Living Room, window sill	160 µg/ft^2	250 µg/ft^2
502/0112F-W3 1/16/12	Main Floor Bedroom, Side B, window sill	74 µg/ft^2	250 µg/ft^2
502/0112F-W4 1/16/12	Main Floor Bedroom, Side B, floor under window	<10 µg/ft^2	40 µg/ft^2
502/0112F-W5 1/16/12	Kitchen floor by back door	15 µg/ft^2	40 µg/ft^2
502/0112F-W6 1/16/12	Upper level back door entry, floor	**140 µg/ft^2**	**40 µg/ft^2**
502/0112F-W7 1/16/12	Upper bedroom, Side A, window sill	**1,800 µg/ft^2**	**250 µg/ft^2**
502/0112F-W8 1/16/12	Upper bedroom, floor under window	17 µg/ft^2	40 µg/ft^2
502/0112F-W9 1/16/12	Blind Field Blank	<10 µg/ft^2	----------

* Unit Abbreviations: µg/ft^2 - micrograms per square foot

Dust wipe were collected from the residence, however, water and sodium rhodizonate swabs were not collected as part of this project. Bare soil was not observed on the day of the site evaluation. No bare soil samples were collected .

According to HUD protocol, if the first 5 of a building component are identified as positive for lead-based paint, the remaining like components are assumed to be lead-based paint containing.

At the request of the City of St. Paul, only abatement options are provided for lead hazards identified during this evaluation. Abatement options can include removal of building components to the substrate and replacement with new lead free products; enclosure of building components under dust tight barriers; encapsulation; or removal of coatings to the substrates and re-coating with lead free coatings.

RECOMMENDATIONS

Lead-based paint or lead hazards were found during the inspection and risk assessment of the property including painted wood stair skirts & riser; painted wood window components; painted wood door components; painted wood baseboards; drywall & plaster walls & ceilings, ceramic tile walls, painted wood floors.

Porch 1:

Painted wood door components: In fair condition.

- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood baseboards: In fair condition.

- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Enclose under a dust tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with an approved lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood cornice & crown molding: In intact condition.

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Enclose under a dust tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with an approved lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood threshold: In poor condition.

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood walls & ceiling:

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with a lead abatement approved encapsulant such as

Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Vinyl floor: In intact condition.
- Option 1: Remove vinyl flooring using Lead Safe Work Practices and replace with new lead free coatings.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Remove vinyl and coating under the vinyl to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Stairway 1:
Painted wood baseboards: In fair condition.
- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Enclose under a dust tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with an approved lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood stair skirt, stair treads & stair riser: In fair condition.
- Option 1: Remove stair system using Lead Safe Work Practices and replace with lead free products.
- Option 2: Enclose under dust tight barriers using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Stairway 1 - Floor 2:
Painted wood door components: In fair condition.
- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

1st Floor Living Room:
Painted wood exterior window components: In poor condition.
- Option 1: Remove window components to raw opening using Lead Safe Work

Practices and replace with new lead free window systems.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Metal window well: In intact condition.
- Option 1:Include into an Operation & Maintenance Plan with ongoing monitoring.(The metal cladding is already an enclosure). Ensure that seams are maintained in a sealed condition with elastomeric caulk.
- Option 2: Remove window components using Lead Safe Work Practices and replace with new lead free products.
- Option 3: Remove coatings under cladding to bare substrate and re-coat with lead free coatings.

Bedroom 1:

Painted wood closet door components: In fair condition.
- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood cornice: In intact condition.
- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood walls:
- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with a lead abatement approved encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Pressed fiber ceiling tile (depth index indicates lead under the nailed on tiles): In intact condition.
- Option 1: Remove ceiling tiles using Lead Safe Work Practices and replace with lead free products.
- Option 2: Remove tiles and remove coatings to bare substrates and re-coat with leaf free coatings.

Painted wood closet baseboards: In intact condition.

- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Enclose under a dust tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with an approved lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted drywall closet ceiling: In intact condition.

- Option 1: Remove ceiling system using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.

Painted wood window components: In poor condition.

- Option 1: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free products
- Option 2; Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings

Metal window well: In intact condition.

- Option 1:Include into an Operation & Maintenance Plan with ongoing monitoring.(The metal cladding is already an enclosure). Ensure that seams are maintained in a sealed condition with elastomeric caulk.
- Option 2: Remove window components using Lead Safe Work Practices and replace with new lead free products.
- Option 3: Remove coatings under cladding to bare substrate and re-coat with lead free coatings.

Bathroom 1:

Ceramic tile walls: In intact condition.

- Option 1: Include into an Operation & Maintenance Plan with ongoing monitoring. Do not use harsh abrasives for cleaning as these may abrade the surfaces.
- Option 2: Remove wall system using Lead Safe Work Practices and replace with new lead free products.

Vinyl base coving: In intact condition.

- Option 1: Remove base coving using Lead Safe Work Practices and replace with new lead free products.

Pressed fiber ceiling tile: In poor condition.

- Option 1: Remove ceiling tiles using Lead Safe Work Practices and replace with lead free products.
- Option 2: Remove tiles and remove coatings to bare substrates and re-coat with leaf free coatings.

1st Floor Kitchen:

Metal window well: In intact condition.

- Option 1:Include into an Operation & Maintenance Plan with ongoing monitoring.(The metal cladding is already an enclosure). Ensure that seams are maintained in a sealed condition with elastomeric caulk.
- Option 2: Remove window components using Lead Safe Work Practices and replace with new lead free products.
- Option 3: Remove coatings under cladding to bare substrate and re-coat with lead free coatings.

Painted wood window components: In poor condition.

- Option 1: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free products
- Option 2; Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Den:

Painted wood window components: In poor condition.

- Option 1: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free products
- Option 2; Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Stairway to Basement:

Painted wood walls: In poor condition

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with a lead abatement approved encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood baseboards: In fair condition.

- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Enclose under a dust tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with an approved lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood window components: In poor condition.

- Option 1: Remove window components to raw opening using Lead Safe Work Practices and replace with new lead free products
- Option 2; Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted plaster walls: In poor condition.

- Option 1: Remove wall system using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with a lead abatement approved encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4; Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.
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Painted wood stair treads & stair stringer In poor condition.

- Option 1: Remove stair system using Lead Safe Work Practices and replace with lead free products.
- Option 2: Enclose under dust tight barriers using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted stone wall: In poor condition.

- Option 1: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Porch 2:

Varnished wood closet door components: In fair condition.

- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood walls: In fair condition

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with a lead abatement approved encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted drywall closet ceiling: In fair condition.

- Option 1: Remove ceiling system using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.

Bedroom 3:

Painted wood baseboards (including closet): In poor condition.

- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Enclose under a dust tight barrier and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with an approved lead abatement encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood door components (including closet): In poor condition.

- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood closet support: In poor condition.
- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood closet walls: In poor condition
- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with a lead abatement approved encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted plaster walls & ceiling: In poor condition.
- Option 1: Remove wall & ceiling system using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with a lead abatement approved encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood floor: In fair condition.
- Option 1: Remove floor to sub floor using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3; Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

2nd Floor Living Room:

Painted wood door components: In fair condition.
- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood walls: In fair condition

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with a lead abatement approved encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Bedroom 4:

Painted wood walls: In fair condition

- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with a lead abatement approved encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood floor: In fair condition.

- Option 1: Remove floor to sub floor using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Bathroom 2:

Vinyl floor: In intact condition.

- Option 1: Remove vinyl flooring using Lead Safe Work Practices and replace with new lead free coatings.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Remove vinyl and coating under the vinyl to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Stairway 2:

Painted wood chair rail & wainscoting: In fair condition.

- Option 1: Remove components using Lead Safe Work Practices and replace

with new lead free products.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted metal transom sash & painted wood transom casings: In intact conditon.
- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood door components: In fair condition.
- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood floor: In fair condition.
- Option 1: Remove floor to sub floor using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3; Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood stair riser: In fair condition.
- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3; Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood toeboard: In fair condition.
- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3; Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

2nd Floor Kitchen:

Painted wood closet door components: In fair condition.
- Option 1: Remove door components using Lead Safe Work Practices and

replace with new lead free products.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted wood closet support: In fair condition.
- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted plaster walls & ceiling: In fair condition.
- Option 1: Remove wall & ceiling system using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Encapsulate with a lead abatement approved encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Garage - Exterior:
Painted wood door components: In poor condition.
- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Painted Masonite siding & wood fascia: In poor condition.
- Option 1: Remove siding & fascia using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Remove coatings to bare substrate using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.

Garage - Interior:
Painted wood walls & ceiling: In poor condition
- Option 1: Remove components using Lead Safe Work Practices and replace with new lead free products.
- Option 2: Enclose under a dust tight barrier using Lead Safe Work Practices and include into an Operation & Maintenance Plan with ongoing monitoring.

- Option 3: Encapsulate with a lead abatement approved encapsulant such as Safe Encasement® or equivalent and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 4: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Lead Dust:
Dust wipe samples were found to be above the defined actions levels on floor and window surfaces tested. All window and floor systems will be required to be cleaned and should be made smooth and cleanable. If planned renovation or work activity will disturb lead coated surfaces, lead safe work practices should be followed, which include requirements for clean up of the work area and clearance testing.

Bare Soil:
Bare soil was not observed due to snow cover. No bare soil samples were collected. If bare soil is present it is assumed to be above the MDH standard of 100 parts per million.

- Abatement Option 1: Removal of bare soil and replacement with new soil of 25 parts per million of lead or less.
- Abatement Option 2: Covering bare soil with asphalt, concrete or other impervious coating.
-

When qualified contractors are performing the planned renovation/remodeling activities, precautions should be properly done to minimize the potential for lead-based paint contamination to the workers, occupants and the environment.

DISCUSSION

The mere presence of lead-coated surfaces does not create a lead hazard. Maintenance of lead containing coatings will prevent lead from becoming a hazard. Lead-based paint above the action level of 1.0 mg/cm^2 was found on surfaces tested.

Because exterior surfaces are to be remediated and lead-coatings are present, covering the ground and providing adequate protection to soil is very important. Bare soil is not currently present and steps should be taken to keep bare soil from being generated.

Dust wipe samples collected found lead dust levels above the action levels on floor and window surfaces tested as defined by MDH, HUD and EPA in the sampling locations tested. Contractors will be required to clean all floor systems and window surfaces throughout the complex for lead hazards in dust following and as a part of the planned restoration.

The preceding lead reduction recommendations include different ways to treat each lead hazard that was identified by the risk assessment/inspection. The most effective treatments are considered abatement and require little or no ongoing maintenance to preserve a lead safe environment. The less effective treatments are called interim controls and these treatments require an increased amount of ongoing 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, then reevaluation should occur every three years, and an owner's visual survey should occur annually.

If lead dust, soil, or lead-based paint hazards are found to be present, choosing the option 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 re-evaluation should occur after the first year and then every two years after that. Visual surveys by the owner should occur annually.

If lead dust levels are found to be more than ten times the standard levels, then reevaluation after interim control measures should occur six months after the hazard reduction.

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 areas tested. Therefore, all painted surfaces should be maintained in accordance with the Minnesota Department of Health standards.

ROUGH ESTIMATED COSTS:

- Work site preparation for interior, approximately $75.00 to $250.00 per room.
- Window replacement, approximately $150.00 and up, depending on style.
- Exterior preparation approximately $35.00 to $75.00 per component (i.e., windows, doors), removal or enclosure.
- Work area cleaning: $0.15 to $0.35 per square foot.
- Paint stabilization: $0.20 to $0.65 per square foot.

- Removal: Paint - chemical stripper: $0.65 to $1.50 square foot.

- Soil Remediation:
  a. Clean-up of visible exterior paint chips: $0.90 to $1.35 square foot.
  b. Seed and tack grass: $0.45 to $0.75 square foot.
  c. Sod: $1.25 to $3.30 square foot.
  d. Regrade at foundation and sod: $3.00 to $5.00 square foot.
  e. Mulch - 4": $0.50 to $0.90 square foot.
  f. Concrete: $4.50 to $8.00 square foot.
  g. Replace soil: $42.00 to $65.00 cubic yard.

If work is going to be performed on these surfaces, individuals and/or contractors should be informed of the results of testing. At a minimum, the person(s) performing the work should follow the requirements of the Occupational Safety and Health Administration (OSHA) Standard 29 CFR 1926.62, Lead in the Construction Industry.

For the protection of the occupants and workers, and because of the use of federal funds, you are required by the HUD rules to use qualified firms who are knowledgeable about the hazards associated with lead. Supervisor should be licensed and workers will be required to be licenced or certified, as MEC understands the scope of work.

Please maintain a copy of the lead inspection/risk assessment report for your records and provide a copy of the report to any contractors that may be involved in any future renovations or remodeling projects.

A copy of this lead inspection/risk assessment summary must be provided to purchasers or lessees (tenants) of this property under Federal Law (24 CFR Part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract.

The complete report must also be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers are also required to distribute an educational pamphlet approved by the U.S. Environmental Protection Agency and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards.

It has been our pleasure to provide this service to you and your organization. Please contact me if you have questions relating to any aspect of this work.

Respectfully submitted,

Greg Myers
Environmental Services Director

APPENDIX A

INSPECTOR CREDENTIALS

Minnesota Department of Health

has authorized

Midwest Environmental Consulting, LLC
145 2nd Ave SE
Cambridge, Minnesota 55008

in accordance with Minnesota Statutes, section 144.9505 and Minnesota Rules, part 4761.2200, to practice in the State of Minnesota as a

Certified Lead Firm

License No: LF551
Expires 03/28/2012

This certificate is nontransferable.

Linda B. Bruemmer, Director
Division of Environmental Health

Director, Env. Health Div.

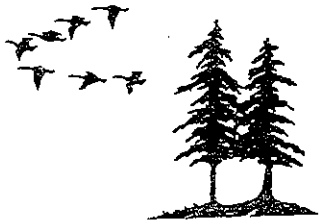
MDH LEAD
Risk Assessor

Licensed by:
State of Minnesota
Department of Health

License No. LR284
Expires 08/25/2012

Greg A Myers
19667 Salmonson River Rd
Mora, MN 55051

Greg A. Myers



has completed the Minnesota-Approved Lead Training course entitled:

Lead Risk Assessor Refresher Training

August 25, 2011

given by

Midwest Environmental Consulting, L.L.C.
145 - 2nd Avenue SE, Cambridge, MN 55008
Phone: 763.691.0111

SUCCESSFULLY PASSED THE EXAMINATION ON August 25, 2011, IN Cambridge, MINNESOTA

IDENTIFICATION NUMBER: MEC/LRAR 0843
Expiration Date: August 25, 2012
MDH Permit Number: RAR-006

Course Director/Primary Instructor

Approved by the State of Minnesota under Minnesota Rules, parts 4761.2000 to 4761.2700.

MINNESOTA
MDH
DEPARTMENT of HEALTH

RA-0040

Lead Risk Assessor Independent Examination

121 East Seventh Place, Suite 220 • St. Paul • Minnesota 55101 • (651) 215-0700

This certifies that

Greg Myers

has successfully passed the required independent examination for:

Lead Risk Assessor

October 25, 1999
St. Paul, Minnesota
This certificate is nontransferable.

Patricia A. Bloomquist

Director, Division of Environmental Health
Jan K. Malcolm, Commissioner

Midwest Center for Occupational Health & Safety

Program in Continuing Education - Occupational Health

640 Jackson Street
St. Paul, MN 55101
(612) 221-3992
LR-48

This certifies that

Greg Myers

attended this continuing education course offered by Midwest Center for Occupational Health & Safety

Lead Risk Assessment

April 24 - 25, 1997

SUCCESSFULLY PASSED THE EXAMINATION ON APRIL 25, 1997 IN ST PAUL, MN.

- 2.0 Maintenance of certification points from the American Board of Industrial Hygiene.
- Designed to meet the requirements of the Minnesota Board of Nursing for 19.2 (50 minute) contact hours.
- This course offers 1.6 Continuing Education Units (CEUs) from the Midwest Center for Occupational Health and Safety.

\ NIOSH Sponsored Educational Resource Center
\ National Institute of Environmental Health Sciences
\ HUD EPA Regional Lead Training Center
\ Great Lakes OSHA Training Consortium

Course Director

Return this certificate for your records

THIS CERTIFIES THAT

Greg Myers

has completed the EPA Sponsored Lead Training course entitled

Lead Inspector Training

February 2, 1994 to February 4, 1994

given by the

Midwest Center for Occupational Health & Safety

Program in Continuing Education
An EPA Regional Lead Training Center

Successfully passed the examination on February 4, 1994 in St Paul, MN

- Designed to meet the requirements of the MN Board of Nursing for 25 contact hours
- 3.0 Maintenance of certification points from the American Board of Industrial Hygiene
- Approval has been granted for 12 contact hours for continuing education by the MDH for registration as an Environmental Health Specialist/Sanitarian
- This course offers 2.4 Continuing Education Units (CEUs) from the Midwest Center for Occupational Health and Safety

CERTIFICATION NUMBER: LI-199

MCOH Midwest Center for Occupational Health

NITON® corporation

Certificate of Achievement

This is to certify that

GREG MYERS

has successfully completed the Manufacturer's Training Course for the NITON XL Spectrum Analyzer

The two-day course covered radiation safety and monitoring, L x-ray measurement technology, and machine maintenance of the XL Lead-in-Paint Detector

94855
Certificate Number

June 15-16, 1995
Course Date

Director of Training

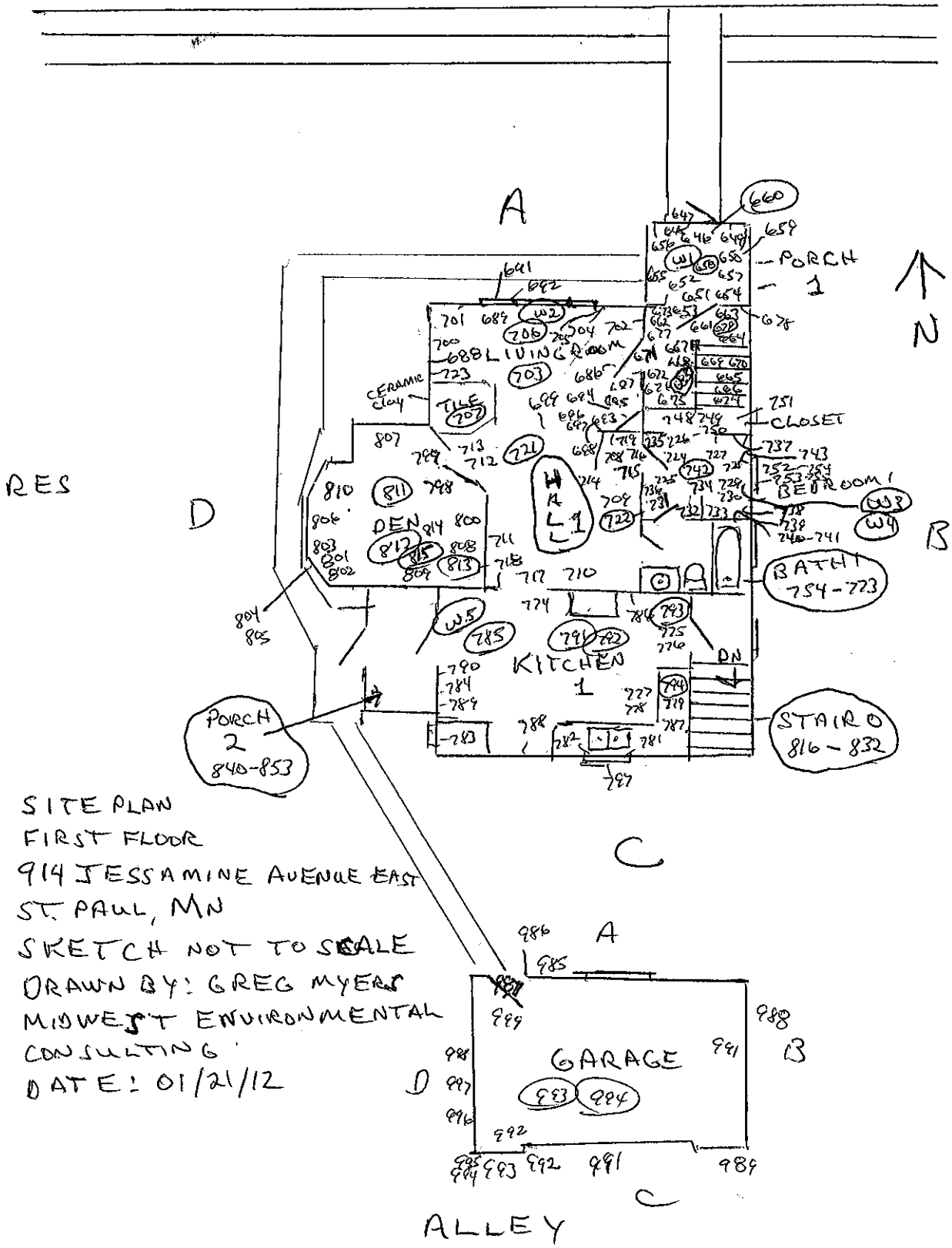
President & CEO – NITON

APPENDIX B

XRF TEST RESULTS
SAMPLING MAPS
DATA PAGES
CALIBRATION DATA

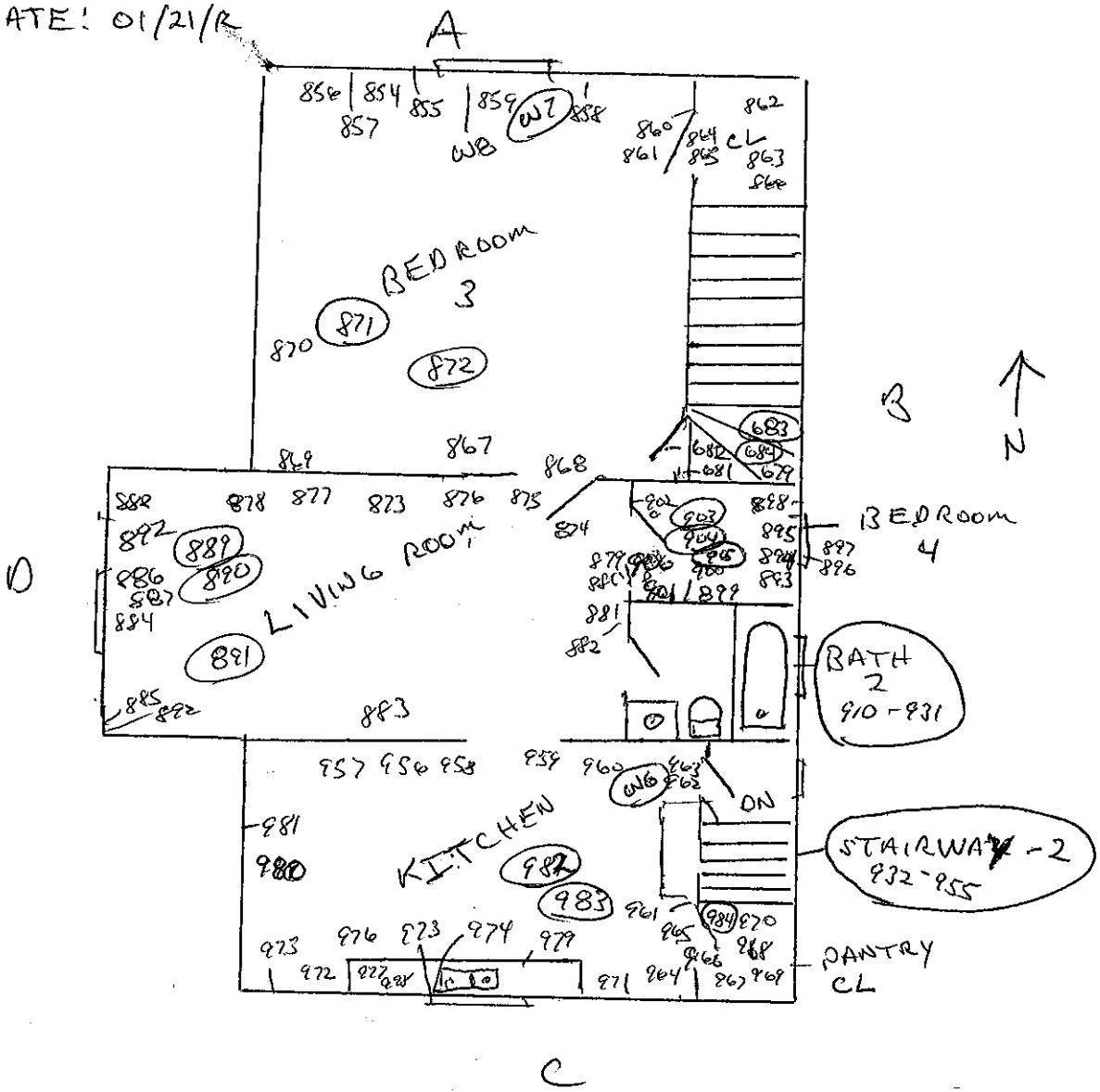
Res

JESSAMINE AVENUE EAST



SITE PLAN
FIRST FLOOR
914 JESSAMINE AVENUE EAST
ST. PAUL, MN
SKETCH NOT TO SCALE
DRAWN BY: GREG MYERS
MIDWEST ENVIRONMENTAL CONSULTING
DATE: 01/21/12

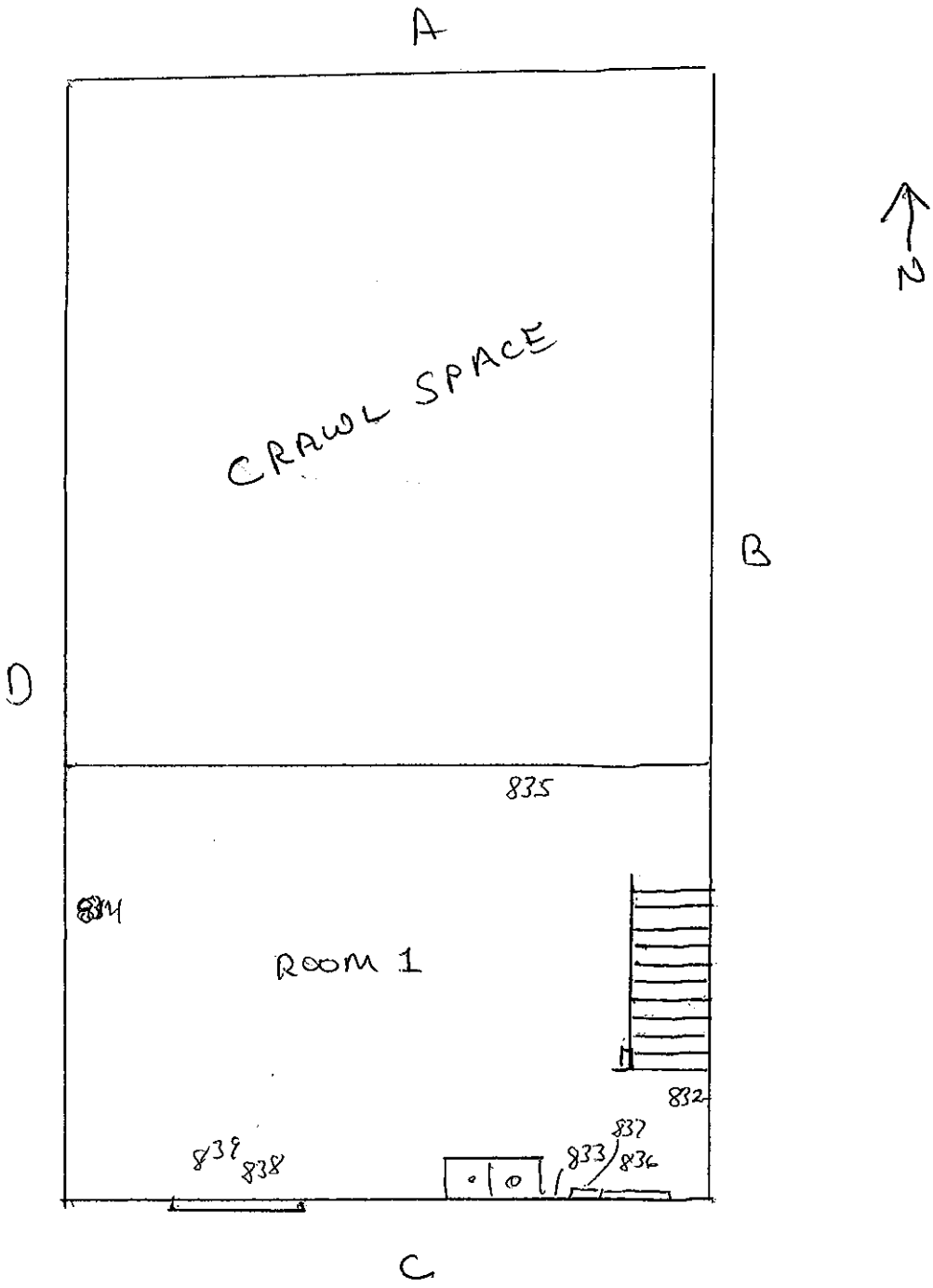
SECOND FLOOR
914 JESSAMINE AVENUE EAST
ST PAUL, MN
SKETCH NOT TO SCALE
DRAWN BY: GREG MYERS
MIDWEST ENVIRONMENTAL CONSULTING
DATE: 01/21/R



WQ = FIELD BLANK

BASEMENT LEVEL
914 Jessamine Avenue East
St. Paul, MN
SKETCH NOT TO SCALE

DRAWN BY: GREG MYERS
MIDWEST ENVIRONMENTAL
CONSULTING LLC
DATE: 01/21/12



All Phase Companies
914 Jessamine Avenue
St. Paul MN

Site: All Phase Companies - 914 Jessamine Avenue, St. Paul MN
Date: Jan. 21, 2012
XRF: XLp 303A Serial #8790

Site	XRF #	Date/Time	Floor	Room	Rm #	Side	Component	Substrate	Condition	Color	Results	PbC	PbL	PbK	Duration	Depth	Insp.
							calibrate				POS	1.1	1.1	0.7	21.81	1.09	GM
							calibrate				POS	1.1	1.1	0.8	21.21	1.08	GM
							calibrate				POS	1.1	1.1	0.8	20.99	1.12	GM
914 Jessamine Ave E	643	1/21/2012 13:49															
914 Jessamine Ave E	644	1/21/2012 13:50															
914 Jessamine Ave E	645	1/21/2012 13:52															
914 Jessamine Ave E	646	1/21/2012 13:54	1	Porch !		A	Door Casing	Metal	Fair	White	Neg	0	0	0.26	2.68	1.61	GM
914 Jessamine Ave E	647	1/21/2012 13:54	1	Porch !		A	Door Jamb	Wood	Fair	White	POS	6.6	10.1	6.6	2.47	8.04	GM
914 Jessamine Ave E	648	1/21/2012 13:55	1	Porch !		A	Door Casing	Wood	Fair	White	POS	10.3	8.3	10.3	2.27	9.57	GM
914 Jessamine Ave E	649	1/21/2012 13:56	1	Porch !		A	Baseboard	Wood	Fair	Tan	POS	1.6	1.1	1.6	7.41	10	GM
914 Jessamine Ave E	650	1/21/2012 13:56	1	Porch !		A	Cornice	Wood	Intact	Tan	POS	4.1	3.6	4.1	2.68	7.53	GM
914 Jessamine Ave E	651	1/21/2012 13:57	1	Porch !		C	Door	Wood	Poor	Varnish	Neg	0.02	0.02	0.4	2.67	1.21	GM
914 Jessamine Ave E	652	1/21/2012 13:57	1	Porch !		C	Door Jamb	Wood	Fair	White	POS	25.7	10.1	25.7	3.5	8.14	GM
914 Jessamine Ave E	653	1/21/2012 13:58	1	Porch !		C	Threshold	Wood	Poor	Grey	POS	30.9	10	30.9	3.5	4.04	GM
914 Jessamine Ave E	654	1/21/2012 13:59	1	Porch !		C	Wall	Wood	Intact	Tan	POS	12.8	5.6	12.8	3.72	10	GM
914 Jessamine Ave E	655	1/21/2012 13:59	1	Porch !		D	Wall	Wood	Intact	Tan	POS	7.7	5.7	7.7	2.47	10	GM
914 Jessamine Ave E	656	1/21/2012 13:59	1	Porch !		A	Wall	Wood	Intact	Tan	POS	6.8	6.9	6.8	2.67	9.42	GM
914 Jessamine Ave E	657	1/21/2012 14:00	1	Porch !		B	Wall	Wood	Intact	Tan	POS	6.7	3.1	6.7	2.69	10	GM
914 Jessamine Ave E	658	1/21/2012 14:00	1	Porch !			Ceiling	Wood	Intact	White	POS	6	8.5	6	1.64	10	GM
914 Jessamine Ave E	659	1/21/2012 14:01	1	Porch !			Crown Moulding	Wood	Intact	White	POS	3.9	4.1	3.9	2.68	7.43	GM
914 Jessamine Ave E	660	1/21/2012 14:02	1	Porch !			Floor	Vinyl	Intact	Black	POS	10.7	0.05	10.7	3.72	6.13	GM
914 Jessamine Ave E	661	1/21/2012 14:07	1	Stairway 1			Door	Wood	Poor	Varnish	Neg	0.01	0.01	0.4	2.67	1	GM
914 Jessamine Ave E	662	1/21/2012 14:07	1	Stairway 1		A	Door Casing	Wood	Fair	White	Neg	0	0	0.4	2.68	1	GM
914 Jessamine Ave E	663	1/21/2012 14:08	1	Stairway 1		A	Baseboard	Wood	Fair	White	Neg	0	0	0.29	2.48	1	GM
914 Jessamine Ave E	664	1/21/2012 14:08	1	Stairway 1		B	Baseboard	Wood	Fair	White	POS	7	2.8	7	2.7	10	GM
914 Jessamine Ave E	665	1/21/2012 14:08	1	Stairway 1		B	Stair Skirt	Wood	Fair	White	POS	5	2	5	2.68	10	GM
914 Jessamine Ave E	666	1/21/2012 14:09	1	Stairway 1		B	Hand Rail	Wood	Fair	Natural	Neg	0	0	0.5	2.69	1	GM
914 Jessamine Ave E	667	1/21/2012 14:10	1	Stairway 1		C	Newel Post	Wood	Fair	Natural	Neg	0.13	0.13	0.6	2.68	2.14	GM
914 Jessamine Ave E	668	1/21/2012 14:11	1	Stairway 1		C	Rail cap	Wood	Fair	White	Neg	0.07	0.07	0.5	2.67	5.33	GM
914 Jessamine Ave E	669	1/21/2012 14:11	1	Stairway 1			Stair Tread	Wood	Fair	White	POS	7.8	1.6	7.8	2.47	10	GM
914 Jessamine Ave E	670	1/21/2012 14:12	1	Stairway 1		C	Stair Riser	Wood	Fair	White	POS	2.2	1	2.2	3.29	10	GM
914 Jessamine Ave E	671	1/21/2012 14:12	1	Stairway 1		D	Door	Wood	Fair	Natural	Neg	0	0	0.6	2.67	1	GM
914 Jessamine Ave E	672	1/21/2012 14:13	1	Stairway 1		D	Door Jamb	Wood	Fair	Natural	Neg	0	0	0.4	2.68	1	GM
914 Jessamine Ave E	673	1/21/2012 14:13	1	Stairway 1		A	Wall	Wood	Fair	Tan	Neg	0	0	0.5	2.68	1	GM
914 Jessamine Ave E	674	1/21/2012 14:14	1	Stairway 1		B	Wall	Plaster	Fair	Tan	Neg	0.02	0.02	0.5	7	5.57	GM
914 Jessamine Ave E	675	1/21/2012 14:14	1	Stairway 1		C	Wall	Drywall	Fair	Tan	Neg	0.01	0.01	0.3	4.95	2.65	GM
914 Jessamine Ave E	676	1/21/2012 14:15	1	Stairway 1		D	Wall	Drywall	Intact	Tan	Neg	0.01	0.01	0.3	4.52	3.48	GM
914 Jessamine Ave E	677	1/21/2012 14:16	1	Stairway 1		D	Crown Moulding	Wood	Intact	Tan	Neg	0.6	0	0.6	6.18	1.28	GM
914 Jessamine Ave E	678	1/21/2012 14:17	1	Stairway 1		A	Crown Moulding	Wood	Intact	White	Neg	0.8	0	0.8	10.32	1	GM
914 Jessamine Ave E	679	1/21/2012 14:17	1	Stairway 1			Ceiling	Plaster	Intact	White	Neg	0	0	0.07	5.56	1	GM
914 Jessamine Ave E	680	1/21/2012 14:18	2	Stairway 1		C	Wall	Plaster	Intact	Tan	Neg	0.01	0.01	0.7	4.12	2.25	GM
914 Jessamine Ave E	681	1/21/2012 14:19	2	Stairway 1		D	Door Casing	Wood	Fair	White	POS	3.6	2.5	3.6	2.68	9.34	GM
914 Jessamine Ave E	682	1/21/2012 14:19	2	Stairway 1		D	Door	Wood	Fair	Natural	Neg	0	0	0.21	2.68	1	GM
914 Jessamine Ave E	683	1/21/2012 14:20	2	Stairway 1			Ceiling	Plaster	Fair	Natural	Null	0	0	0.6	7.42	1.14	GM
914 Jessamine Ave E	684	1/21/2012 14:21	2	Stairway 1			Ceiling	Plaster	Fair	Natural	Neg	0.6	0	0.6	11.54	1.27	GM

All Phase Companies
914 Jessamine Avenue
St. Paul MN

Site	XRF #	Date/Time	Floor	Room	Rm #	Side	Component	Substrate	Condition	Color	Results	PbC	PbL	PbK	Duration	Depth	Insp.
914 Jessamine Ave E	685	1/21/2012 14:23	1	Stairway 1			Floor	Vinyl	Intact	Tan	Neg	0.01	0.01	-0.15	4.11	2.45	GM
914 Jessamine Ave E	686	1/21/2012 14:25	1	Living Room		B	Door	Wood	Poor	Natural	Neg	0	0	0.23	2.67	1	GM
914 Jessamine Ave E	687	1/21/2012 14:26	1	Living Room		B	Door Casing	Wood	Fair	Natural	Neg	0	0	0.5	2.68	1	GM
914 Jessamine Ave E	688	1/21/2012 14:26	1	Living Room		D	Baseboard	Wood	Fair	Varnish	Neg	0.01	0.01	0.26	2.68	1	GM
914 Jessamine Ave E	689	1/21/2012 14:27	1	Living Room		A	Window Casing	Wood	Poor	Varnish	Neg	0.02	0.02	0.5	2.87	2.12	GM
914 Jessamine Ave E	690	1/21/2012 14:27	1	Living Room		A	Window Sash	Wood	Poor	Varnish	Neg	0.03	0.03	0.26	2.68	1	GM
914 Jessamine Ave E	691	1/21/2012 14:29	1	Living Room		A	Window Sash ext	Wood	Poor	Varnish	Null	1.2	1.2	3.4	0.41	2.49	GM
914 Jessamine Ave E	692	1/21/2012 14:30	1	Living Room		C	Window Sash ext	Wood	Poor	Varnish	POS	3.9	3.9	5.6	1.02	2.65	GM
914 Jessamine Ave E	693	1/21/2012 14:31	1	Living Room		C	Window Well	Metal	Intact	Brown	POS	5.3	1	5.3	2.68	10	GM
914 Jessamine Ave E	694	1/21/2012 14:32	1	Living Room		C	Cabinet Door	Wood	Fair	White	Neg	0.07	0.07	0.6	2.66	1.75	GM
914 Jessamine Ave E	695	1/21/2012 14:33	1	Living Room		C	Cabinet Face	Wood	Fair	White	Neg	0.12	0.12	0.4	2.67	3.12	GM
914 Jessamine Ave E	696	1/21/2012 14:33	1	Living Room		C	Cabinet Shelf	Wood	Fair	White	Neg	0.01	0.01	0.4	2.67	1.47	GM
914 Jessamine Ave E	697	1/21/2012 14:34	1	Living Room		C	Cabinet In	Plaster	Intact	White	Neg	0	0	0.6	4.11	1	GM
914 Jessamine Ave E	698	1/21/2012 14:34	1	Living Room		C	Register	Metal	Intact	White	Neg	0.01	0.01	0.18	2.69	1.86	GM
914 Jessamine Ave E	699	1/21/2012 14:35	1	Living Room		C	Wall	Plaster	Intact	Tan	Neg	0	0	0.02	4.1	1	GM
914 Jessamine Ave E	700	1/21/2012 14:36	1	Living Room		D	Wall	Wood	Fair	Varnish	Neg	0.02	0.02	0.4	2.67	2.05	GM
914 Jessamine Ave E	701	1/21/2012 14:36	1	Living Room		A	Wall	Concrete	Intact	Tan	Neg	0	0	0.1	4.52	1.33	GM
914 Jessamine Ave E	702	1/21/2012 14:37	1	Living Room		B	Wall	Drywall	Intact	Tan	Neg	0	0	0.24	2.67	1	GM
914 Jessamine Ave E	703	1/21/2012 14:38	1	Living Room			Ceiling	Drywall	Intact	White	Neg	0	0	0.4	4.11	1.33	GM
914 Jessamine Ave E	704	1/21/2012 14:39	1	Living Room		A	Crown moulding	Wood	Intact	White	Null	0	0	0.7	1.23	1	GM
914 Jessamine Ave E	705	1/21/2012 14:39	1	Living Room		A	Crown moulding	Wood	Intact	White	Neg	0.7	0	0.7	4.73	1.11	GM
914 Jessamine Ave E	706	1/21/2012 14:40	1	Living Room			Floor	Wood	Fair	Varnish	Neg	0	0	0.3	2.68	1.09	GM
914 Jessamine Ave E	707	1/21/2012 14:40	1	Living Room			Floor	Ceramic	Intact	Brown	Neg	0.02	0.02	0.3	4.3	3.48	GM
914 Jessamine Ave E	708	1/21/2012 14:43	1	Hallway 1		A	Wall	Drywall	Intact	Tan	Neg	0	0	0.02	4.1	1	GM
914 Jessamine Ave E	709	1/21/2012 14:44	1	Hallway 1		B	Wall	Plaster	Intact	Tan	Neg	0	0	0.9	9.65	1	GM
914 Jessamine Ave E	710	1/21/2012 14:44	1	Hallway 1		C	Wall	Plaster	Intact	Tan	Neg	0	0	0.4	5.36	1	GM
914 Jessamine Ave E	711	1/21/2012 14:45	1	Hallway 1		D	Wall	Drywall	Intact	Tan	Neg	0.02	0.02	0.09	3.69	5.98	GM
914 Jessamine Ave E	712	1/21/2012 14:46	1	Hallway 1		D	Door	Wood	Fair	Varnish	Neg	0	0	-0.12	2.66	1	GM
914 Jessamine Ave E	713	1/21/2012 14:46	1	Hallway 1		D	Door Jamb	Wood	Fair	Natural	Neg	0	0	0.5	2.68	1	GM
914 Jessamine Ave E	714	1/21/2012 14:46	1	Hallway 1		A	Baseboard	Wood	Fair	Tan	Neg	0	0	0.5	2.67	1	GM
914 Jessamine Ave E	715	1/21/2012 14:47	1	Hallway 1		B	Door Casing	Wood	Fair	White	Neg	0.01	0.01	0.13	2.67	2.13	GM
914 Jessamine Ave E	716	1/21/2012 14:47	1	Hallway 1		B	Door	Wood	Fair	White	Neg	0	0	-0.15	3.3	1	GM
914 Jessamine Ave E	717	1/21/2012 14:48	1	Hallway 1		C	Door Jamb	Wood	Fair	White	Neg	0	0	1.1	2.67	1.12	GM
914 Jessamine Ave E	718	1/21/2012 14:48	1	Hallway 1		C	Threshold	Wood	Fair	Varnish	Neg	0.01	0.01	0.5	2.67	1.57	GM
914 Jessamine Ave E	719	1/21/2012 14:48	1	Hallway 1		B	Threshold	Wood	Fair	Varnish	Neg	0	0	0.5	2.68	1	GM
914 Jessamine Ave E	720	1/21/2012 14:49	1	Hallway 1		B	Pipe	Metal	Poor	White	Neg	0	0	0.28	2.68	1	GM
914 Jessamine Ave E	721	1/21/2012 14:50	1	Hallway 1			Ceiling tile	Pressed fib	Intact	White	Neg	0.01	0.01	0.1	3.71	3.4	GM
914 Jessamine Ave E	722	1/21/2012 14:51	1	Hallway 1		B	Crown Moulding	Wood	Intact	White	Neg	0.7	0	0.7	5.57	1	GM
914 Jessamine Ave E	723	1/21/2012 14:53	1	Living Room		D	Baseboard hea	Metal	Intact	White	Neg	0.01	0.01	0.3	2.67	2.93	GM
914 Jessamine Ave E	724	1/21/2012 14:54	1	Bedroom 1		D	Door	Wood	Fair	White	Neg	0	0	-0.13	2.47	1.87	GM
914 Jessamine Ave E	725	1/21/2012 14:54	1	Bedroom 1		D	Door Jamb	Wood	Fair	White	Neg	0	0	0.6	2.68	1	GM
914 Jessamine Ave E	726	1/21/2012 14:55	1	Bedroom 1		D	Clst jamb	Wood	Fair	White	POS	3.2	0.7	3.2	4.32	10	GM
914 Jessamine Ave E	727	1/21/2012 14:56	1	Bedroom 1		A	Baseboard	Wood	Fair	Tan	Neg	0	0	0.4	2.68	1	GM
914 Jessamine Ave E	728	1/21/2012 14:56	1	Bedroom 1		A	Cornice	Wood	Intact	Tan	POS	2.8	0	2.8	3.08	1	GM
914 Jessamine Ave E	729	1/21/2012 14:57	1	Bedroom 1		B	Window Casing	Wood	Poor	Varnish	Neg	0.08	0.08	0.9	2.68	2.51	GM
914 Jessamine Ave E	730	1/21/2012 14:57	1	Bedroom 1		B	Window Sash	Wood	Poor	Varnish	Neg	0.06	0.06	0.3	2.87	2.87	GM

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Site	XRF #	Date/Time	Floor	Room	Rm #	Side	Component	Substrate	Condition	Color	Results	PbC	Pbl	PbK	Duration	Depth	Insp.
914 Jessamine Ave E	731	1/21/2012 14:58	1	Bedroom 1		C	Door	Wood	Poor	Varnish	Neg	0.03	0.03	-0.16	2.68	1.31	GM
914 Jessamine Ave E	732	1/21/2012 14:58	1	Bedroom 1		C	Door Casing	Wood	Fair	White	Neg	0	0	0.4	2.68	1	GM
914 Jessamine Ave E	733	1/21/2012 14:59	1	Bedroom 1		C	Shelf	Wood	Fair	Tan	Neg	0	0	0.3	2.68	1	GM
914 Jessamine Ave E	734	1/21/2012 14:59	1	Bedroom 1		C	Shelf sup	Metal	Intact	White	Neg	0	0	0.09	3.49	1	GM
914 Jessamine Ave E	735	1/21/2012 15:00	1	Bedroom 1		D	Pipe	Metal	Intact	Tan	Neg	0.01	0.01	0.6	2.66	2.79	GM
914 Jessamine Ave E	736	1/21/2012 15:00	1	Bedroom 1		D	Wall	Wood	Intact	Tan	POS	7.9	0.18	7.9	3.08	10	GM
914 Jessamine Ave E	737	1/21/2012 15:01	1	Bedroom 1		A	Wall	Wood	Intact	Tan	POS	6.2	0.04	6.2	2.68	7.59	GM
914 Jessamine Ave E	738	1/21/2012 15:01	1	Bedroom 1		B	Wall	Wood	Intact	Tan	POS	7.1	0.01	7.1	2.48	2.06	GM
914 Jessamine Ave E	739	1/21/2012 15:01	1	Bedroom 1		C	Wall	Wood	Intact	Tan	Neg	0	0	-0.54	2.68	1	GM
914 Jessamine Ave E	740	1/21/2012 15:02	1	Bedroom 1		C	Crown Moulding	Wood	Intact	Tan	Null	0	0	0.2	0.62	1	GM
914 Jessamine Ave E	741	1/21/2012 15:03	1	Bedroom 1		C	Crown Moulding	Wood	Intact	Tan	Neg	0	0	0.4	2.68	1	GM
914 Jessamine Ave E	742	1/21/2012 15:03	1	Bedroom 1		C	Crown Moulding	Wood	Intact	White	Neg	0.7	0	0.7	4.93	1	GM
914 Jessamine Ave E	743	1/21/2012 15:07	1	Bedroom 1		C	Ceiling tile	Preesed fib	Intact	White	POS	1	0.1	1	60.86	10	GM
914 Jessamine Ave E	744	1/21/2012 15:08	1	Bedroom 1		B	Baseboard heat	Preesed fib	Intact	Tan	Neg	0	0	-0.02	2.67	1	GM
914 Jessamine Ave E	745	1/21/2012 15:09	1	Bedroom 1		B	Clst wall	Wood	Intact	White	Neg	0.02	0.02	1	2.67	3.15	GM
914 Jessamine Ave E	746	1/21/2012 15:10	1	Bedroom 1		B	Clst baseboard	Wood	Intact	White	POS	8.9	2.7	8.9	2.48	10	GM
914 Jessamine Ave E	747	1/21/2012 15:10	1	Bedroom 1		B	Clst cornice	Wood	Intact	White	Neg	0.6	0	0.6	5.37	1	GM
914 Jessamine Ave E	748	1/21/2012 15:11	1	Bedroom 1		B	Clst crown mold	Wood	Intact	White	Neg	0.6	0	0.6	4.75	1	GM
914 Jessamine Ave E	749	1/21/2012 15:12	1	Bedroom 1		B	Clst ceiling	Drywall	Intact	White	POS	1.6	0	1.6	8.01	1	GM
914 Jessamine Ave E	750	1/21/2012 15:14	1	Bedroom 1		B	Window Jamb	Wood	Poor	White	POS	18.3	4.1	18.3	1.85	3.25	GM
914 Jessamine Ave E	751	1/21/2012 15:15	1	Bedroom 1		B	Window Well	Metal	Intact	Brown	POS	12.6	1	12.6	2.27	10	GM
914 Jessamine Ave E	752	1/21/2012 15:16	1	Bedroom 1		B	Window Sash ext	Wood	Poor	Brown	Neg	0.24	0.24	0.6	2.68	1.46	GM
914 Jessamine Ave E	753	1/21/2012 15:16	1	Bedroom 1		B	Window Sash ext	Wood	Poor	Brown	Neg	0.4	0.17	0.4	4.52	1.33	GM
914 Jessamine Ave E	754	1/21/2012 15:19	1	Bathroom 1		A	Door	Wood	Poor	Varnish	Neg	0.02	0.02	0.01	2.67	1.53	GM
914 Jessamine Ave E	755	1/21/2012 15:20	1	Bathroom 1		A	Door Casing	Wood	Poor	Varnish	Neg	0	0	0.5	2.68	1	GM
914 Jessamine Ave E	756	1/21/2012 15:20	1	Bathroom 1		B	Window Casing	Wood	Poor	Varnish	Neg	0.01	0.01	0.6	2.68	1	GM
914 Jessamine Ave E	757	1/21/2012 15:21	1	Bathroom 1		B	Window Sash	Wood	Poor	Varnish	Neg	0	0	0.7	2.68	1.15	GM
914 Jessamine Ave E	758	1/21/2012 15:21	1	Bathroom 1		C	Cabinet Door	Wood	Poor	Varnish	Neg	0	0	0.3	2.67	1	GM
914 Jessamine Ave E	759	1/21/2012 15:22	1	Bathroom 1		C	Cabinet in	Wood	Fair	White	Neg	0	0	0.4	2.68	1	GM
914 Jessamine Ave E	760	1/21/2012 15:23	1	Bathroom 1		C	Cabinet Face	Wood	Fair	Varnish	Neg	0	0	0.5	2.47	1	GM
914 Jessamine Ave E	761	1/21/2012 15:23	1	Bathroom 1		C	Cabinet in	Wood	Poor	White	Null	0	0	-0.1	0.21	1	GM
914 Jessamine Ave E	762	1/21/2012 15:23	1	Bathroom 1		C	Cabinet in	Wood	Poor	White	Neg	0	0	0.7	2.68	1	GM
914 Jessamine Ave E	763	1/21/2012 15:24	1	Bathroom 1		D	Door Jamb	Wood	Fair	White	Neg	0.01	0.01	1.1	2.68	2.53	GM
914 Jessamine Ave E	764	1/21/2012 15:24	1	Bathroom 1		D	Wall	Plaster	Intact	Tan	Neg	0.03	0.03	0.5	3.29	3.38	GM
914 Jessamine Ave E	765	1/21/2012 15:25	1	Bathroom 1		A	Wall	Plaster	Intact	Tan	Neg	0.01	0.01	0.4	3.29	2.59	GM
914 Jessamine Ave E	766	1/21/2012 15:25	1	Bathroom 1		A	Wall	Ceramic	Intact	White	POS	5.8	6.4	5.8	2.26	2.63	GM
914 Jessamine Ave E	767	1/21/2012 15:25	1	Bathroom 1		C	Wall	Ceramic	Intact	White	POS	6.5	6.4	6.5	2.28	2.75	GM
914 Jessamine Ave E	768	1/21/2012 15:27	1	Bathroom 1		D	Base coving	Vinyl	Intact	Tan	POS	2.1	0	2.1	6.6	1	GM
914 Jessamine Ave E	769	1/21/2012 15:27	1	Bathroom 1			Floor	Vinyl	Fair	Beige	Neg	0	0	0.06	4.53	1	GM
914 Jessamine Ave E	770	1/21/2012 15:28	1	Bathroom 1			Tub	Metal	Fair	White	Neg	0.01	0.01	-0.09	4.77	1	GM
914 Jessamine Ave E	771	1/21/2012 15:29	1	Bathroom 1			Ceiling tile	Pressed fib	Poor	White	Neg	0.16	0.02	0.16	2.67	4.89	GM
914 Jessamine Ave E	772	1/21/2012 15:30	1	Bathroom 1			DC Grif	Metal	Intact	White	Neg	0	0	0.21	2.67	1	GM
914 Jessamine Ave E	773	1/21/2012 15:32	1	Bathroom 1			Ceiling tile	Pressed fib	Poor	White	POS	3.7	0.6	3.7	2.88	4.01	GM
914 Jessamine Ave E	774	1/21/2012 15:33	1	Kitchen		A	Door Casing	Wood	Fair	Tan	Neg	0.02	0.02	0.4	2.67	3.46	GM
914 Jessamine Ave E	775	1/21/2012 15:34	1	Kitchen		B	Door	Wood	Fair	Varnish	Neg	0.01	0.01	-0.22	4.33	1	GM
914 Jessamine Ave E	776	1/21/2012 15:34	1	Kitchen		B	Door Casing	Wood	Fair	Varnish	Neg	0.01	0.01	0.7	2.68	2.44	GM

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Site	XRF #	Date/Time	Floor	Room	Rm #	Side	Component	Substrate	Condition	Color	Results	PbC	PbL	PbK	Duration	Depth	Insp.
914 Jessamine Ave E	777	1/21/2012 15:35	1	Kitchen		B	Cabinet Door	Wood	Fair	Varnish	Neg	0	0	0.21	2.67	1	GM
914 Jessamine Ave E	778	1/21/2012 15:35	1	Kitchen		B	Cabinet Face	Wood	Poor	Varnish	Neg	0	0	0.5	2.67	1	GM
914 Jessamine Ave E	779	1/21/2012 15:36	1	Kitchen		B	Cabinet in	Wood	Fair	Tan	Neg	0	0	0.25	2.67	1	GM
914 Jessamine Ave E	780	1/21/2012 15:36	1	Kitchen		C	Window Casing	Wood	Poor	Varnish	Neg	0	0	0.6	2.47	1	GM
914 Jessamine Ave E	781	1/21/2012 15:36	1	Kitchen		C	Window Sash	Wood	Poor	Varnish	Neg	0	0	0.7	2.67	1	GM
914 Jessamine Ave E	782	1/21/2012 15:37	1	Kitchen		D	Door	Wood	Poor	Varnish	Neg	0	0	0.4	2.9	1	GM
914 Jessamine Ave E	783	1/21/2012 15:38	1	Kitchen		D	Miniblind	Vinyl	Fair	White	Neg	0	0	0.01	3.92	1.63	GM
914 Jessamine Ave E	784	1/21/2012 15:38	1	Kitchen		D	Base coving	Vinyl	Intact	White	Neg	0	0	-0.05	4.12	1	GM
914 Jessamine Ave E	785	1/21/2012 15:39	1	Kitchen			Floor	Vinyl	Intact	Beige	Neg	0.3	0	0.3	5.13	2.19	GM
914 Jessamine Ave E	786	1/21/2012 15:39	1	Kitchen		A	Wall	Drywall	Intact	Tan	Neg	0	0	0.4	4.12	1	GM
914 Jessamine Ave E	787	1/21/2012 15:40	1	Kitchen		B	Wall	Drywall	Intact	Tan	Neg	0	0	0.15	4.73	1	GM
914 Jessamine Ave E	788	1/21/2012 15:40	1	Kitchen		C	Wall	Drywall	Intact	Tan	Neg	0	0	0.29	4.31	1	GM
914 Jessamine Ave E	789	1/21/2012 15:41	1	Kitchen		D	Wall	Drywall	Intact	Tan	Neg	0	0	0.4	2.88	1	GM
914 Jessamine Ave E	790	1/21/2012 15:41	1	Kitchen		D	Baseboard heat	Metal	Intact	Tan	Neg	0.01	0.01	0.24	2.47	4.39	GM
914 Jessamine Ave E	791	1/21/2012 15:43	1	Kitchen			Ceiling tile	Metal	Intact	Tan	Neg	0	0	0.28	2.68	1	GM
914 Jessamine Ave E	792	1/21/2012 15:43	1	Kitchen			D Grid	Metal	Intact	White	Neg	0	0	0.1	2.68	1	GM
914 Jessamine Ave E	793	1/21/2012 15:44	1	Kitchen			Ceiling tile	Pressed fib	Intact	White	Neg	0.01	0.01	0.2	4.54	1.47	GM
914 Jessamine Ave E	794	1/21/2012 15:45	1	Kitchen		B	Countertop	Wood	Intact	Green	Neg	0.04	0.04	0.4	2.68	2.9	GM
914 Jessamine Ave E	795	1/21/2012 15:47	1	Kitchen		C	Window Well	Metal	Intact	Brown	POS	2.2	0.5	2.2	4.33	10	GM
914 Jessamine Ave E	796	1/21/2012 15:48	1	Kitchen		C	Window Jamb	Wood	Poor	White	POS	1.3	0.8	1.3	12.96	2.36	GM
914 Jessamine Ave E	797	1/21/2012 15:49	1	Kitchen		C	Window Sash ext	Wood	Poor	White	Neg	0.5	0.5	0.5	2.67	2	GM
914 Jessamine Ave E	798	1/21/2012 15:51	1	Den		B	Door	Wood	Fair	Varnish	Neg	0	0	-0.06	2.48	1	GM
914 Jessamine Ave E	799	1/21/2012 15:52	1	Den		B	Door Casing	Wood	Fair	Natural	Neg	0	0	0.6	2.67	1	GM
914 Jessamine Ave E	800	1/21/2012 15:52	1	Den		B	Baseboard	Wood	Fair	Tan	Neg	0	0	0.18	2.67	1	GM
914 Jessamine Ave E	801	1/21/2012 15:53	1	Den		D	Window Casing	Wood	Poor	Varnish	Neg	0.01	0.01	0.6	2.88	1.29	GM
914 Jessamine Ave E	802	1/21/2012 15:53	1	Den		D	Window Sash	Wood	Poor	Varnish	Neg	0.02	0.02	0.23	2.68	1	GM
914 Jessamine Ave E	803	1/21/2012 15:54	1	Den		D	Window Sash ext	Wood	Poor	White	Null	0.03	0.03	0.6	1.64	2.91	GM
914 Jessamine Ave E	804	1/21/2012 15:54	1	Den		D	Window Sash ext	Wood	Poor	White	Neg	0.5	0.06	0.5	4.74	10	GM
914 Jessamine Ave E	805	1/21/2012 15:55	1	Den		D	Window Jamb	Wood	Poor	White	POS	15.1	2.8	15.1	3.51	2.55	GM
914 Jessamine Ave E	806	1/21/2012 15:56	1	Den		D	Baseboard heat	Metal	Intact	White	Neg	0	0	-0.24	2.69	1.66	GM
914 Jessamine Ave E	807	1/21/2012 15:56	1	Den		A	Wall	Drywall	Intact	Tan	Neg	0	0	0.5	4.1	1	GM
914 Jessamine Ave E	808	1/21/2012 15:57	1	Den		B	Wall	Drywall	Intact	Tan	Neg	0	0	0.02	3.69	1	GM
914 Jessamine Ave E	809	1/21/2012 15:58	1	Den		C	Wall	Plaster	Intact	Tan	Neg	0.01	0.01	0.9	5.35	4.26	GM
914 Jessamine Ave E	810	1/21/2012 15:58	1	Den		D	Wall	Plaster	Fair	Tan	Neg	0.02	0.02	0.8	4.33	5.29	GM
914 Jessamine Ave E	811	1/21/2012 15:59	1	Den			Ceiling tile	Pressed fib	Poor	White	Neg	0.5	0	0.5	4.75	1	GM
914 Jessamine Ave E	812	1/21/2012 16:00	1	Den			Ceiling	Plaster	Poor	Brown	Neg	0	0	0.29	3.09	1	GM
914 Jessamine Ave E	813	1/21/2012 16:01	1	Den		B	Crown Moulding	Plaster	Poor	Brown	Neg	0.6	0	0.6	4.95	1.53	GM
914 Jessamine Ave E	814	1/21/2012 16:02	1	Den			Floor	Wood	Poor	Varnish	Neg	0.16	0.16	0.6	2.67	1.43	GM
914 Jessamine Ave E	815	1/21/2012 16:03	1	Den			Floor	Vinyl	Poor	Brown	Neg	0.02	0.02	0.5	2.67	3.04	GM
914 Jessamine Ave E	816	1/21/2012 16:05	1	Stairway 0		D	Door	Wood	Poor	Varnish	Neg	0.01	0.01	-0.06	2.47	1.96	GM
914 Jessamine Ave E	817	1/21/2012 16:05	1	Stairway 0		D	Door Jamb	Wood	Poor	Varnish	Neg	0	0	0.5	4.32	1	GM
914 Jessamine Ave E	818	1/21/2012 16:06	1	Stairway 0		A	Wall	Wood	Poor	Brown	POS	4.8	0.19	4.8	2.86	3.6	GM
914 Jessamine Ave E	819	1/21/2012 16:06	1	Stairway 0		A	Baseboard	Wood	Fair	White	POS	1.5	1.5	1.9	4.74	1.86	GM
914 Jessamine Ave E	820	1/21/2012 16:07	1	Stairway 0		B	Window Casing	Wood	Poor	White	POS	6.8	1	6.8	2.7	10	GM
914 Jessamine Ave E	821	1/21/2012 16:07	1	Stairway 0		B	Window Sash	Wood	Poor	White	POS	7.6	1.2	7.6	2.47	10	GM
914 Jessamine Ave E	822	1/21/2012 16:08	1	Stairway 0		B	Window Sash ext	Wood	Poor	White	POS	7.3	6.3	7.3	2.26	2.63	GM

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Site	XRF #	Date/Time	Floor	Room	Rm #	Side	Component	Substrate	Condition	Color	Results	PbC	PbL	PbK	Duration	Depth	Insp.
914 Jessamine Ave E	823	1/21/2012 16:09	1	Stairway 0		B	Window Jamb	Wood	Poor	White	POS	13.2	8.3	13.2	2.27	2.87	GM
914 Jessamine Ave E	824	1/21/2012 16:11	1	Stairway 0		B	Chair Rail	Wood	Poor	White	Neg	0.01	0.01	0.9	2.68	1.3	GM
914 Jessamine Ave E	825	1/21/2012 16:11	1	Stairway 0		B	Wall	Plaster	Poor	White	POS	12.2	2	12.2	3.72	10	GM
914 Jessamine Ave E	826	1/21/2012 16:12	1	Stairway 0		B	Ceiling	Drywall	Poor	White	Neg	0	0	0.4	4.5	1	GM
914 Jessamine Ave E	827	1/21/2012 16:12	1	Stairway 0		B	Floor	Vinyl	Poor	White	Neg	0.01	0.01	0.28	6.38	3.21	GM
914 Jessamine Ave E	828	1/21/2012 16:14	1	Stairway 0		B	Stair Tread	Wood	Poor	Grey	POS	4.9	4.9	6.1	2.47	4.86	GM
914 Jessamine Ave E	829	1/21/2012 16:15	1	Stairway 0		B	Stair Stringer	Wood	Poor	Grey	POS	6.4	5.6	6.4	2.69	5.5	GM
914 Jessamine Ave E	830	1/21/2012 16:15	1	Stairway 0		B	Stair Transition trim	Wood	Poor	Grey	Neg	0.08	0.08	0.3	3.09	4.29	GM
914 Jessamine Ave E	831	1/21/2012 16:16	0	Stairway 0		D	Wall	Wood	Poor	Brown	Neg	0.01	0.01	0.06	2.68	1.65	GM
914 Jessamine Ave E	832	1/21/2012 16:17	0	Stairway 0		B	Wall	Ston	Poor	Brown	POS	1.4	0.04	1.4	13.99	5.85	GM
914 Jessamine Ave E	833	1/21/2012 16:19	0	Room 1		C	Wall	Ston	Poor	Brown	POS	1.4	0	1.4	15.27	1.33	GM
914 Jessamine Ave E	834	1/21/2012 16:19	0	Room 1		D	Wall	Stone	Poor	Brown	Neg	0	0	1.4	2.67	1.06	GM
914 Jessamine Ave E	835	1/21/2012 16:20	0	Room 1		A	Wall	Stone	Poor	Blue	POS	1.7	0	1.7	6.2	1	GM
914 Jessamine Ave E	836	1/21/2012 16:21	0	Room 1		C	Electrical Box	Metal	Intact	Grey	Neg	0	0	0.13	2.68	1	GM
914 Jessamine Ave E	837	1/21/2012 16:22	0	Room 1		C	Electrical Box	Metal	Poor	Black	Neg	0	0	-0.08	2.67	1	GM
914 Jessamine Ave E	838	1/21/2012 16:22	0	Room 1		C	Window Casing	Metal	Poor	White	Neg	0.08	0.08	0.4	2.67	1.38	GM
914 Jessamine Ave E	839	1/21/2012 16:23	0	Room 1		C	Window Casing	Metal	Poor	Black	Neg	0.19	0.19	1	2.68	2.89	GM
914 Jessamine Ave E	840	1/21/2012 16:27	1	Porch 2		D	Door	Metal	Fair	Brown	Neg	0	0	0.9	2.67	1	GM
914 Jessamine Ave E	841	1/21/2012 16:27	1	Porch 2		D	Door Casing	Wood	Fair	Varnish	POS	2.5	0.27	2.5	4.13	10	GM
914 Jessamine Ave E	842	1/21/2012 16:28	1	Porch 2		D	Baseboard	Wood	Fair	Varnish	Neg	0.02	0.02	0.5	2.68	2.07	GM
914 Jessamine Ave E	843	1/21/2012 16:28	1	Porch 2		D	Threshold	Wood	Poor	White	Neg	0.5	0.5	1.4	3.3	2.43	GM
914 Jessamine Ave E	844	1/21/2012 16:29	1	Porch 2		B	Door	Wood	Poor	Varnish	Neg	0.02	0.02	0.27	2.48	2.09	GM
914 Jessamine Ave E	845	1/21/2012 16:29	1	Porch 2		B	Door Jamb	Wood	Poor	White	Neg	0	0	0.4	2.68	1	GM
914 Jessamine Ave E	846	1/21/2012 16:29	1	Porch 2		D	Wall	Wood	Fair	Brown	Neg	0.15	0.15	0.9	2.67	3.24	GM
914 Jessamine Ave E	847	1/21/2012 16:30	1	Porch 2		A	Wall	Wood	Fair	Brown	POS	6.8	1.2	6.8	2.68	4.52	GM
914 Jessamine Ave E	848	1/21/2012 16:30	1	Porch 2		B	Wall	Wood	Fair	Brown	POS	4.7	1.5	4.7	2.89	5.75	GM
914 Jessamine Ave E	849	1/21/2012 16:31	1	Porch 2		C	Wall	Wood	Fair	Brown	Neg	0.19	0.19	0.7	2.67	5.37	GM
914 Jessamine Ave E	850	1/21/2012 16:31	1	Porch 2			Ceiling	Drywall	Fair	White	POS	3.5	0	3.5	2.88	1	GM
914 Jessamine Ave E	851	1/21/2012 16:32	1	Porch 2			Crown moulding	Wood	Fair	White	Null	0.08	0.08	0.8	6.79	4.36	GM
914 Jessamine Ave E	852	1/21/2012 16:33	1	Porch 2			Crown moulding	Wood	Fair	White	Neg	0.11	0.11	1.1	2.68	3	GM
914 Jessamine Ave E	853	1/21/2012 16:33	1	Porch 2			Floor	Vinyl	Fair	Beige	Neg	0	0	0.3	3.49	1	GM
914 Jessamine Ave E	854	1/21/2012 17:01	2	Bedroom 3		A	Wall	Plaster	Poor	Tan	Neg	0	0	0.9	4.96	1.08	GM
914 Jessamine Ave E	855	1/21/2012 17:03	2	Bedroom 3		A	Panduit	Metal	Poor	Tan	Neg	0	0	0.9	2.88	2.3	GM
914 Jessamine Ave E	856	1/21/2012 17:04	2	Bedroom 3		A	Electrical Box	Metal	Poor	White	Neg	0	0	0.07	2.68	1	GM
914 Jessamine Ave E	857	1/21/2012 17:04	2	Bedroom 3		A	Baseboard heat	Metal	Poor	Tan	Neg	0.01	0.01	0.3	2.88	2.48	GM
914 Jessamine Ave E	858	1/21/2012 17:05	2	Bedroom 3		A	Baseboard	Wood	Poor	White	POS	9.7	1.3	9.7	2.46	10	GM
914 Jessamine Ave E	859	1/21/2012 17:06	2	Bedroom 3		A	Window Sash	Wood	Poor	White	Neg	0.04	0.04	0.4	4.52	3.88	GM
914 Jessamine Ave E	860	1/21/2012 17:06	2	Bedroom 3		B	Door casing	Wood	Poor	White	POS	10.3	1.9	10.3	3.69	10	GM
914 Jessamine Ave E	861	1/21/2012 17:07	2	Bedroom 3		B	Door	Wood	Poor	White	POS	8.2	2.2	8.2	2.47	10	GM
914 Jessamine Ave E	862	1/21/2012 17:08	2	Bedroom 3		C	Closet baseboard	Wood	Poor	White	POS	12.4	7.8	12.4	3.93	3.28	GM
914 Jessamine Ave E	863	1/21/2012 17:09	2	Bedroom 3		C	Closet support	Wood	Poor	White	POS	2.1	0.21	2.1	6.17	10	GM
914 Jessamine Ave E	864	1/21/2012 17:10	2	Bedroom 3		C	Closet door	Wood	Poor	White	POS	9.6	10.1	9.6	2.47	5.96	GM
914 Jessamine Ave E	865	1/21/2012 17:11	2	Bedroom 3		C	Closet door jamb	Wood	Poor	White	POS	9.3	8.1	9.3	5.13	6.54	GM
914 Jessamine Ave E	866	1/21/2012 17:11	2	Bedroom 3		C	Closet wall	Wood	Poor	White	POS	20.4	8.1	20.4	2.27	7.04	GM
914 Jessamine Ave E	867	1/21/2012 17:12	2	Bedroom 3		C	Wall	Plaster	Poor	Tan	POS	11.7	0.6	11.7	3.7	10	GM
914 Jessamine Ave E	868	1/21/2012 17:13	2	Bedroom 3		C	Door	Wood	Fair	Natural	Neg	0.01	0.01	0.4	2.87	1.93	GM

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Site	XRF #	Date/Time	Floor	Room	Run #	Side	Component	Substrate	Condition	Color	Results	PbC	PbL	PbK	Duration	Depth	Insp.
914 Jessamine Ave E	869	1/21/2012 17:14	2	Bedroom 3		C	Wall	Plaster	Fair	Tan	POS	8.5	0.17	8.5	2.46	10	GM
914 Jessamine Ave E	870	1/21/2012 17:14	2	Bedroom 3		D	Wall	Plaster	Fair	Tan	POS	9	0.5	9	2.46	10	GM
914 Jessamine Ave E	871	1/21/2012 17:15	2	Bedroom 3		D	Ceiling	Plaster	Fair	Tan	POS	2.3	0.5	2.3	4.91	10	GM
914 Jessamine Ave E	872	1/21/2012 17:16	2	Bedroom 3		D	Floor	Wood	Fair	Tan	POS	11.1	4.3	11.1	2.48	3.8	GM
914 Jessamine Ave E	873	1/21/2012 17:22	2	Living Room		A	Wall	Wood	Fair	Natural	Neg	0.05	0.05	0.7	3.09	1	GM
914 Jessamine Ave E	874	1/21/2012 17:23	2	Living Room		A	Door	Wood	Intact	White	POS	8	1.6	8	2.68	10	GM
914 Jessamine Ave E	875	1/21/2012 17:23	2	Living Room		A	Door jamb	Wood	Intact	White	POS	11.8	6.3	11.8	2.48	8.71	GM
914 Jessamine Ave E	876	1/21/2012 17:24	2	Living Room		A	Baseboard heat	Metal	Intact	Grey	Neg	0	0	-0.09	4.14	1	GM
914 Jessamine Ave E	877	1/21/2012 17:25	2	Living Room		A	Wall heat	Metal	Intact	Tan	Neg	0.01	0.01	0.28	3.09	2.44	GM
914 Jessamine Ave E	878	1/21/2012 17:25	2	Living Room		A	Wall heat	Metal	Intact	Brown	Neg	0.02	0.02	0.13	2.88	1.18	GM
914 Jessamine Ave E	879	1/21/2012 17:27	2	Living Room		B	Door	Wood	Intact	Natural	Neg	0.01	0.01	0.6	2.89	1	GM
914 Jessamine Ave E	880	1/21/2012 17:27	2	Living Room		B	Door Casing	Wood	Intact	Brown	Neg	0	0	0.5	3.08	1.25	GM
914 Jessamine Ave E	881	1/21/2012 17:28	2	Living Room		B	Baseboard	Wood	Intact	Brown	Neg	0.04	0.04	0.7	2.87	3	GM
914 Jessamine Ave E	882	1/21/2012 17:28	2	Living Room		B	Wall	Wood	Intact	Natural	Neg	0.05	0.05	0.26	3.3	1	GM
914 Jessamine Ave E	883	1/21/2012 17:29	2	Living Room		C	Wall	Wood	Intact	Natural	Neg	0.06	0.06	0.6	2.67	1.1	GM
914 Jessamine Ave E	884	1/21/2012 17:29	2	Living Room		D	Wall	Wood	Intact	Natural	Neg	0.05	0.05	0.6	2.68	1	GM
914 Jessamine Ave E	885	1/21/2012 17:30	2	Living Room		D	Base shoe	Wood	Intact	Brown	Neg	0.27	0.27	0.9	2.67	1.54	GM
914 Jessamine Ave E	886	1/21/2012 17:31	2	Living Room		D	Window Casing	Wood	Intact	Brown	Neg	0	0	0.5	2.89	1	GM
914 Jessamine Ave E	887	1/21/2012 17:31	2	Living Room		D	Window Sill	Wood	Intact	Brown	Neg	0.06	0.06	0.5	2.66	3.08	GM
914 Jessamine Ave E	888	1/21/2012 17:33	2	Living Room		D	Crown moulding	Wood	Intact	Brown	Neg	0.01	0.01	0.8	2.67	1.96	GM
914 Jessamine Ave E	889	1/21/2012 17:34	2	Living Room			Ceiling	Tile	Intact	White	Neg	0	0	0.3	6	1	GM
914 Jessamine Ave E	890	1/21/2012 17:34	2	Living Room			Ceiling	Tile	Intact	White	Neg	0.5	0	0.5	4.94	1	GM
914 Jessamine Ave E	891	1/21/2012 17:36	2	Living Room			Floor	Wood	Poor	Brown	Neg	0.4	0.4	0.7	2.89	1.43	GM
914 Jessamine Ave E	892	1/21/2012 17:41	2	Living Room		D	Wall	Wood	Fair	Natural	POS	2.1	0.5	2.1	4.74	3.87	GM
914 Jessamine Ave E	893	1/21/2012 17:42	2	Bedroom 4		B	Wall	Wood	Fair	Natural	POS	2.7	0.5	2.7	5.14	3.4	GM
914 Jessamine Ave E	894	1/21/2012 17:43	2	Bedroom 4.		B	Baseboard	Wood	Fair	Brown	Neg	0.01	0.01	0.6	2.88	1.23	GM
914 Jessamine Ave E	895	1/21/2012 17:43	2	Bedroom 4.		B	Window Sash	Wood	Fair	Natural	Neg	0.02	0.02	0.4	2.88	1.93	GM
914 Jessamine Ave E	896	1/21/2012 17:44	2	Bedroom 4.		B	Window Jamb	Wood	Fair	Natural	Null	0.06	0.06	0.28	0.62	10	GM
914 Jessamine Ave E	897	1/21/2012 17:44	2	Bedroom 4.		B	Window Jamb	Wood	Fair	Natural	Neg	0.02	0.02	0.7	2.68	3.84	GM
914 Jessamine Ave E	898	1/21/2012 17:45	2	Bedroom 4.		B	Baseboard heat	Metal	Poor	Tan	Neg	0.01	0.01	-0.06	3.09	1.85	GM
914 Jessamine Ave E	899	1/21/2012 17:47	2	Bedroom 4.		C	Baseboard	Wood	Fair	Brown	Neg	0.02	0.02	0.7	4.53	1.73	GM
914 Jessamine Ave E	900	1/21/2012 17:48	2	Bedroom 4.		C	Crown moulding	Wood	Fair	Brown	Neg	0.06	0.06	0.8	2.88	2.54	GM
914 Jessamine Ave E	901	1/21/2012 17:48	2	Bedroom 4.		C	Wall	Wood	Fair	Natural	Neg	0.07	0.07	0.4	2.68	1.3	GM
914 Jessamine Ave E	902	1/21/2012 17:49	2	Bedroom 4.		D	Wall	Wood	Fair	Natural	Neg	0.28	0.28	0.9	4.95	2.53	GM
914 Jessamine Ave E	903	1/21/2012 17:50	2	Bedroom 4.			Ceiling	Tile	Fair	White	Neg	0.8	0.8	1.1	5.99	1.83	GM
914 Jessamine Ave E	904	1/21/2012 17:50	2	Bedroom 4.			Ceiling	Tile	Fair	White	Neg	0.6	0.6	0.9	5.15	2.14	GM
914 Jessamine Ave E	905	1/21/2012 17:52	2	Bedroom 4.			Floor	Wood	Fair	Brown	POS	10.9	8.6	10.9	5.36	5.17	GM
914 Jessamine Ave E	906	1/21/2012 17:57	2	Bedroom 4.		D	Door	Wood	Fair	Natural	Neg	0.03	0.03	0.12	2.68	2.53	GM
914 Jessamine Ave E	907	1/21/2012 18:00					Calibration				POS	1	1	0.7	20.18	1.05	GM
914 Jessamine Ave E	908	1/21/2012 18:01					Calibration				POS	1.1	1.1	0.9	20.36	1.09	GM
914 Jessamine Ave E	909	1/21/2012 18:02					Calibration				POS	1.1	1.1	1	20.54	1.1	GM
914 Jessamine Ave E	910	1/21/2012 18:06	2	Bathroom 2		A	Wall	Plaster	Fair	Tan	Neg	0	0	0.24	2.88	1	GM
914 Jessamine Ave E	911	1/21/2012 18:07	2	Bathroom 2		A	Wall	Ceramic	Fair	White	POS	2.6	2.6	3.3	2.89	2.39	GM
914 Jessamine Ave E	912	1/21/2012 18:08	2	Bathroom 2		A	Door	Wood	Fair	Brown	Neg	0.02	0.02	-0.08	3.08	1.09	GM
914 Jessamine Ave E	913	1/21/2012 18:08	2	Bathroom 2		A	Door Casing	Wood	Fair	Brown	Neg	0	0	0.8	2.67	1	GM
914 Jessamine Ave E	914	1/21/2012 18:09	2	Bathroom 2		B	Window Casing	Wood	Fair	Brown	Neg	0	0	0.5	2.69	1	GM

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Site	XRF #	Date/Time	Floor	Room	Rm #	Side	Component	Substrate	Condition	Color	Results	PbC	PbL	PbK	Duration	Depth	Insp.
914 Jessamine Ave E	915	1/21/2012 18:09	2	Bathroom 2		B	Window Jamb	Wood	Fair	Brown	Neg	0	0	0.6	2.88	1	GM
914 Jessamine Ave E	916	1/21/2012 18:10	2	Bathroom 2		B	Tub	Metal	Fair	White	Neg	0.14	0.02	0.14	4.95	3.37	GM
914 Jessamine Ave E	917	1/21/2012 18:11	2	Bathroom 2		B	Wall	Plaster	Fair	Tan	Neg	0.01	0.01	0.27	3.71	4.72	GM
914 Jessamine Ave E	918	1/21/2012 18:11	2	Bathroom 2		C	Wall	Plaster	Fair	Tan	Neg	0	0	0.3	3.5	1.26	GM
914 Jessamine Ave E	919	1/21/2012 18:13	2	Bathroom 2		C	Medicine cabinet	Metal	Fair	Beige	Neg	0	0	0.5	2.88	1	GM
914 Jessamine Ave E	920	1/21/2012 18:13	2	Bathroom 2		C	Med Cabinet Door	Metal	Fair	Beige	Neg	0	0	0.6	2.68	1	GM
914 Jessamine Ave E	921	1/21/2012 18:14	2	Bathroom 2		C	Cabinet Door	Wood	Intact	Brown	Neg	0	0	0.6	2.67	1	GM
914 Jessamine Ave E	922	1/21/2012 18:14	2	Bathroom 2		C	Cabinet Face	Wood	Intact	Brown	Neg	0	0	0.19	2.68	1	GM
914 Jessamine Ave E	923	1/21/2012 18:15	2	Bathroom 2		C	Cabinet Shelf	Wood	Intact	Brown	Neg	-0.29	0.01	-0.29	2.9	2.64	GM
914 Jessamine Ave E	924	1/21/2012 18:16	2	Bathroom 2		D	Wall	Plaster	Intact	Tan	Neg	0	0	0.4	3.29	1	GM
914 Jessamine Ave E	925	1/21/2012 18:16	2	Bathroom 2		D	Ceiling	Plaster	Intact	Tan	Neg	0	0	0.3	3.91	1	GM
914 Jessamine Ave E	926	1/21/2012 18:18	2	Bathroom 2		D	Floor	Vinyl	Intact	Tan	Null	0.7	0.16	0.7	13.36	10	GM
914 Jessamine Ave E	927	1/21/2012 18:18	2	Bathroom 2		D	Floor	Vinyl	Intact	Tan	Null	0.03	0.03	0.18	2.07	4	GM
914 Jessamine Ave E	928	1/21/2012 18:19	2	Bathroom 2		D	Floor	Vinyl	Intact	Tan	Null	1	0.21	1	29.99	10	GM
914 Jessamine Ave E	929	1/21/2012 18:21	2	Bathroom 2		D	Floor	Vinyl	Intact	Tan	Null	1	0.14	1	13.76	10	GM
914 Jessamine Ave E	930	1/21/2012 18:22	2	Bathroom 2		D	Floor	Vinyl	Intact	Tan	Null	1.1	0.13	1.1	21.54	10	GM
914 Jessamine Ave E	931	1/21/2012 18:23	2	Bathroom 2		D	Floor	Vinyl	Intact	Tan	POS	1.7	0.26	1.7	7.19	10	GM
914 Jessamine Ave E	932	1/21/2012 18:27	2	Stairway 2		A	Wall	Drywall	Intact	Beige	Neg	0	0	0.5	2.68	1	GM
914 Jessamine Ave E	933	1/21/2012 18:28	2	Stairway 2		B	Wall	Plaster	Fair	Beige	Neg	0	0	0.28	5.15	1.29	GM
914 Jessamine Ave E	934	1/21/2012 18:29	2	Stairway 2		B	Chair Rail	Wood	Fair	Beige	POS	9	1.2	9	2.49	10	GM
914 Jessamine Ave E	935	1/21/2012 18:29	2	Stairway 2		B	Wainscoting	Wood	Fair	Beige	POS	6.5	1.4	6.5	2.48	10	GM
914 Jessamine Ave E	936	1/21/2012 18:30	2	Stairway 2		B	Handrail	Wood	Fair	Beige	Neg	0	0	0.5	2.67	1	GM
914 Jessamine Ave E	937	1/21/2012 18:31	2	Stairway 2		B	Pipe	Metal	Fair	Beige	Neg	0	0	-0.45	4.55	1	GM
914 Jessamine Ave E	938	1/21/2012 18:32	2	Stairway 2		C	Cabinet	Wood	Fair	Beige	Neg	0.07	0.07	0.03	3.08	3.7	GM
914 Jessamine Ave E	939	1/21/2012 18:32	2	Stairway 2		C	Cabinet Door	Wood	Fair	Beige	Neg	0.27	0.27	0.18	3.51	7.74	GM
914 Jessamine Ave E	940	1/21/2012 18:33	2	Stairway 2		C	Cabinet Shelf	Wood	Fair	Beige	Neg	0	0	0.4	2.89	1.61	GM
914 Jessamine Ave E	941	1/21/2012 18:34	2	Stairway 2		C	Door Casing	Wood	Fair	Beige	Neg	0	0	0.27	3.09	1	GM
914 Jessamine Ave E	942	1/21/2012 18:35	2	Stairway 2		C	Door	Metal	Intact	Beige	Neg	0	0	0.06	2.68	1	GM
914 Jessamine Ave E	943	1/21/2012 18:37	2	Stairway 2		C	Transom sash	Metal	Intact	Beige	POS	15.8	3.4	15.8	2.26	10	GM
914 Jessamine Ave E	944	1/21/2012 18:38	2	Stairway 2		C	Transom casing	Wood	Intact	Beige	POS	11.9	4.6	11.9	1.85	10	GM
914 Jessamine Ave E	945	1/21/2012 18:39	2	Stairway 2		C	Transom casing	Wood	Intact	Beige	POS	12	3.7	12	2.48	10	GM
914 Jessamine Ave E	946	1/21/2012 18:39	2	Stairway 2		C	Wall	Plaster	Intact	Beige	Null	0.06	0.06	0.08	1.44	6.14	GM
914 Jessamine Ave E	947	1/21/2012 18:40	2	Stairway 2		C	Wall	Plaster	Intact	Beige	Neg	-0.05	0.01	-0.05	4.95	2.42	GM
914 Jessamine Ave E	948	1/21/2012 18:41	2	Stairway 2		C	Door Casing	Wood	Fair	Beige	POS	13.1	1.4	13.1	3.71	10	GM
914 Jessamine Ave E	949	1/21/2012 18:41	2	Stairway 2		C	Door	Wood	Fair	Natural	Neg	0	0	0.6	2.68	1	GM
914 Jessamine Ave E	950	1/21/2012 18:43	2	Stairway 2			Ceiling	Plaster	Fair	Beige	Null	0.05	0.05	0.4	4.56	7.95	GM
914 Jessamine Ave E	951	1/21/2012 18:44	2	Stairway 2			Ceiling	Plaster	Fair	Beige	Neg	0.14	0.07	0.14	5.37	9.01	GM
914 Jessamine Ave E	952	1/21/2012 18:44	2	Stairway 2			Floor	Wood	Fair	Grey	POS	8.2	1.1	8.2	2.68	6.69	GM
914 Jessamine Ave E	953	1/21/2012 18:45	2	Stairway 2		D	Stair Tread	Wood	Fair	Grey	Neg	0.27	0.27	0.3	2.88	2.82	GM
914 Jessamine Ave E	954	1/21/2012 18:46	2	Stairway 2		D	Stair Riser	Wood	Fair	Grey	POS	18.7	2.8	18.7	3.71	9.12	GM
914 Jessamine Ave E	955	1/21/2012 18:46	2	Stairway 2		D	Toeboard	Wood	Fair	Beige	POS	15.7	2.9	15.7	2.05	10	GM
914 Jessamine Ave E	956	1/21/2012 18:49	2	Kitchen		A	Wainscoting	Wood	Intact	Brown	Neg	0	0	0.4	2.67	1	GM
914 Jessamine Ave E	957	1/21/2012 18:49	2	Kitchen		A	Chair Rail	Wood	Intact	Brown	Neg	0	0	0.8	2.88	1	GM
914 Jessamine Ave E	958	1/21/2012 18:50	2	Kitchen		A	Baseboard	Wood	Fair	Brown	Neg	0	0	0.9	2.88	1.3	GM
914 Jessamine Ave E	959	1/21/2012 18:51	2	Kitchen		A	Door Casing	Wood	Fair	Beige	Neg	0	0	0.6	2.67	1	GM
914 Jessamine Ave E	960	1/21/2012 18:52	2	Kitchen		A	Wall	Plaster	Fair	Beige	Neg	0	0	0.29	3.08	1	GM

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914 Jessamine Ave E	961	1/21/2012 18:53	2	Kitchen		B	Wall	Plaster	Fair	Beige	Neg	0	0	0.4	3.7	1	GM
914 Jessamine Ave E	962	1/21/2012 18:53	2	Kitchen		B	Door Casing	Wood	Fair	Beige	Neg	0.01	0.01	0.4	2.69	2.25	GM
914 Jessamine Ave E	963	1/21/2012 18:54	2	Kitchen		B	Door	Wood	Fair	Natural	Neg	0	0	0.6	2.67	1	GM
914 Jessamine Ave E	964	1/21/2012 18:55	2	Kitchen		B	Wall	Brick	Fair	Red	Neg	0.5	0	0.5	9.86	1	GM
914 Jessamine Ave E	965	1/21/2012 18:56	2	Kitchen		B	Door	Wood	Fair	Beige	Neg	0	0	0.5	2.68	1	GM
914 Jessamine Ave E	966	1/21/2012 18:57	2	Kitchen		B	Closet door	Wood	Fair	Beige	Neg	0.19	0.19	0.4	2.67	3.82	GM
914 Jessamine Ave E	967	1/21/2012 18:58	2	Kitchen		B	Closet door jamb	Wood	Fair	Beige	POS	16.1	2.3	16.1	2.27	10	GM
914 Jessamine Ave E	968	1/21/2012 18:59	2	Kitchen		B	Closet shelf	Wood	Fair	Beige	POS	1.6	1.6	1.9	3.71	1.87	GM
914 Jessamine Ave E	969	1/21/2012 19:00	2	Kitchen		B	Closet support	Wood	Fair	Beige	POS	2.8	2.8	3.8	2.68	2.29	GM
914 Jessamine Ave E	970	1/21/2012 19:00	2	Kitchen		B	Clohet wall	Plaster	Fair	Beige	POS	14.6	2.1	14.6	5.14	10	GM
914 Jessamine Ave E	971	1/21/2012 19:02	2	Kitchen		C	Service Panel	Metal	Fair	Grey	Neg	0	0	0.4	3.29	1	GM
914 Jessamine Ave E	972	1/21/2012 19:02	2	Kitchen		C	Wall	Plaster	Fair	Beige	Neg	0	0	0.19	3.09	1	GM
914 Jessamine Ave E	973	1/21/2012 19:03	2	Kitchen		C	Window Casing	Wood	Fair	White	Neg	0.02	0.02	0.23	2.68	3.56	GM
914 Jessamine Ave E	974	1/21/2012 19:03	2	Kitchen		C	Window Sill	Wood	Fair	White	Neg	0.05	0.05	0.4	2.68	6.37	GM
914 Jessamine Ave E	975	1/21/2012 19:04	2	Kitchen		C	Baseboard heat	Metal	Fair	Tan	Neg	0	0	-0.21	2.87	1.2	GM
914 Jessamine Ave E	976	1/21/2012 19:05	2	Kitchen		C	Cabinet	Wood	Fair	White	Neg	0.03	0.03	0.15	5.17	3.09	GM
914 Jessamine Ave E	977	1/21/2012 19:06	2	Kitchen		C	Cabinet door	Wood	Fair	White	Neg	0.01	0.01	0.4	2.68	1.63	GM
914 Jessamine Ave E	978	1/21/2012 19:06	2	Kitchen		C	Cabinet Shelf	Wood	Fair	White	Neg	0.02	0.02	0.16	2.67	1	GM
914 Jessamine Ave E	979	1/21/2012 19:07	2	Kitchen		C	Countertop	Vinyl	Fair	Tan	Neg	0	0	-0.16	2.88	1	GM
914 Jessamine Ave E	980	1/21/2012 19:08	2	Kitchen		D	Wall	Plaster	Fair	Beige	Neg	0	0	0.3	2.68	1.78	GM
914 Jessamine Ave E	981	1/21/2012 19:09	2	Kitchen		D	Crown moulding	Wood	Fair	White	Neg	0	0	1.2	2.68	1	GM
914 Jessamine Ave E	982	1/21/2012 19:10	2	Kitchen			Ceiling	Plaster	Fair	White	POS	15.9	0.3	15.9	2.27	9.98	GM
914 Jessamine Ave E	983	1/21/2012 19:11	2	Kitchen			Floor	Vinyl	Fair	Tan	Neg	0	0	0.13	4.95	1.63	GM
914 Jessamine Ave E	984	1/21/2012 19:12	2	Kitchen			Closet floor	Wood	Fair	Natural	Neg	0.01	0.01	-0.09	3.08	1.67	GM
914 Jessamine Ave E	985	1/21/2012 19:19	Ext	Garage		A	Wall	Masonite	Poor	Yellow	Neg	0	0	0.26	2.9	1	GM
914 Jessamine Ave E	986	1/21/2012 19:19	Ext	Garage		A	Door Jamb	Wood	Poor	Brown	POS	8.8	8.7	8.8	5.36	8.87	GM
914 Jessamine Ave E	987	1/21/2012 19:20	Ext	Garage		A	Door	Wood	Poor	Brown	POS	7	7.6	7	2.89	7.42	GM
914 Jessamine Ave E	988	1/21/2012 19:21	Ext	Garage		B	Wall	Masonite	Poor	Yellow	Neg	-0.24	0.1	-0.24	3.51	10	GM
914 Jessamine Ave E	989	1/21/2012 19:23	Ext	Garage		C	Wall	Masonite	Poor	Yellow	Null	0.9	0.3	0.9	31.56	10	GM
914 Jessamine Ave E	990	1/21/2012 19:25	Ext	Garage		C	Wall	Masonite	Poor	Yellow	Null	0.9	0.3	0.9	33.68	10	GM
914 Jessamine Ave E	991	1/21/2012 19:27	Ext	Garage		C	Overhead door	Fiberglss	Poor	Beige	Neg	0	0	-0.15	2.88	1	GM
914 Jessamine Ave E	992	1/21/2012 19:28	Ext	Garage		C	Door Jamb	Wood	Poor	Tan	Neg	0.8	0.8	0.9	4.96	1.9	GM
914 Jessamine Ave E	993	1/21/2012 19:29	Ext	Garage		C	Wall	Masonite	Poor	Yellow	POS	1.8	0.3	1.8	6.61	10	GM
914 Jessamine Ave E	994	1/21/2012 19:30	Ext	Garage		C	Soffit	Wood	Poor	Yellow	Neg	0	0	-0.14	2.88	1	GM
914 Jessamine Ave E	995	1/21/2012 19:31	Ext	Garage		C	Fascia	Wood	Poor	Brown	POS	1.5	1	1.5	9.28	2.28	GM
914 Jessamine Ave E	996	1/21/2012 19:32	Ext	Garage		D	Fascia	Wood	Poor	Brown	Neg	0	0	0.5	2.68	1.03	GM
914 Jessamine Ave E	997	1/21/2012 19:33	Ext	Garage		D	Soffit	Wood	Poor	Brown	Neg	0	0	0.22	3.31	1	GM
914 Jessamine Ave E	998	1/21/2012 19:34	Ext	Garage		D	Wall	Masonite	Poor	Yellow	Neg	0.6	0.29	0.6	9.44	10	GM
914 Jessamine Ave E	999	1/21/2012 19:40	Int	Garage		A	Door	Wood	Poor	Grey	Neg	0.04	0.04	0.5	2.67	1.4	GM
914 Jessamine Ave E	1000	1/21/2012 19:42	Int	Garage		B	Wall	Wood	Poor	Grey	POS	1.4	1	1.4	17.55	10	GM
914 Jessamine Ave E	1001	1/21/2012 19:43	Int	Garage		C	Wall	Wood	Poor	Yellow	POS	1.9	1.6	1.9	5.14	10	GM
914 Jessamine Ave E	1002	1/21/2012 19:45	Int	Garage			Ceiling	Wood	Poor	Red	POS	6.1	5	6.1	2.26	1.73	GM
914 Jessamine Ave E	1003	1/21/2012 19:46	Int	Garage			Ceiling	Wood	Poor	Grey	POS	6.8	7.3	6.8	2.06	1.41	GM
914 Jessamine Ave E	1004	1/21/2012 19:55					Calibration				POS	1.1	1.1	0.6	17.51	1.09	GM
914 Jessamine Ave E	1005	1/21/2012 19:56					Calibration				Null	1	1	0.7	8.44	1.01	GM
914 Jessamine Ave E	1006	1/21/2012 19:56					Calibration				POS	1.1	1.1	0.5	10.08	1.06	GM

All Phase Companies
914 Jessamine Avenue
St. Paul MN

Site	XRF #	Date/Time	Floor	Room	Rm #	Side	Component	Substrate	Condition	Color	Results	PbC	PbL	PbK	Duration	Depth	Insp.
914 Jessamine Ave E	1007	1/21/2012 19:58					Calibration				POS	1.1	1.1	0.5	20.58	1.11	GM
914 Jessamine Ave E	1008	1/21/2012 19:59					Calibration				POS	1.1	1.1	0.7	20.79	1.1	GM
914 Jessamine Ave E	1009	1/21/2012 20:01					Calibration				POS	1.1	1.1	0.6	20.76	1.08	GM

Description of Column Titles

Site: The sequential number of the site (homes or buildings) inspected on a particular day.

No: The sequential XRF sample number for a given site.

XL No/Map: The sample number recorded on the maps of a particular site.

Date: Date that the XRF sample was analyzed.

Time: Time of XRF sample analysis.

Floor: The sample location floor level (0 = basement, 1 = first floor, 2 = second floor).

Room: The specific location where the sample was analyzed on the site. Calibrate is also recorded in this column when appropriate.

Side: Side of the room based on sampling methodology as described earlier in this report. The only four sides that can be designated are **A, B, C,** and **D.**

Structure: This refers to the general building component that the test was performed on. It may also include modifications such as: upper, lower, exterior, interior, right, and left.

Feature: Specifies additional information about a structure.

Condition: Describes whether the surface being tested is **Intact:** good condition; **Fair:** less than 2 square feet of damage to large interior surface, i.e., wall, less than 10 square feet of damage to large exterior surface, i.e., outside walls, or less than 10% damage to small surface areas, i.e., baseboards, trim, etc.; **Poor:** more than 2 square feet of damage on large interior surfaces, more than 10 square feet of damage to large exterior surface areas, or more than 10% damage to small surface areas.

Substrate: Refers to the material that the structure was made of, i.e., wood, concrete, drywall, etc.

Color: Color of surface tested.

Result: The lead concentration in mg/cm^2 as determined with L-shell and K-shell X-ray data.

PbL(mg/cm^2): The lead concentration as determined with L-shell X-ray data.

RES: Results: POS - above action level, NEG - below action level.

PbK: The lead concentration in mg/cm^2 on the K-shell X-ray data spectrum.

PbC: The combined lead concentration in mg/cm^2 of the L-shell and K-shell X-ray data spectrum.

Depth: This is the index that is a qualitative indication of the depth of the lead in paint. As the number approaches 1, the lead is concentrated close to the top layers of paint. The largest number available for depth index is 10. The greater the number, the more likely interfering elements may have been detected.

Duration: The length of the XRF sample analysis in seconds.

Inspector: When multiple inspectors are used, this number indicates who sampled at the time indicated.

Note: This refers to any notes that were collected during the analysis of the particular sample. Then can be found on the field data sheet titled "Lead-Based Paint Inspection Data Page."

SAMPLING METHODOLOGY

Buildings were systematically inspected for lead-based paints. The **A** side of the building is the side facing the street. Starting from the **A** side, the other sides are lettered consecutively (**B, C, D**), going clockwise around the building.

Inside the unit, each floor was assigned a number starting with **0** for the basement, **1** for the first floor, and **2** for the second floor.

Some rooms that are unique in the building are named on the inspection report. These would include things like pantry, kitchen, halls, bathrooms, and staircases. If there is more than one of a certain type of named room, then they are numbered (e.g., staircases to basements are numbered staircase 1, while staircases to the second floor are labeled staircase 2). Room numbering starts in the **A-D** corner of the building and continues clockwise from that point.

Within each room of the building, each of the sides of the room are named. The naming of walls in a room, for instance, follows the same pattern as that used on the exterior of the building, namely, the street side of each room is labeled **A,** and then clockwise from that wall, walls are labeled **B, C, D**.

APPENDIX C

LABORATORY RESULTS
CHAIN-OF-CUSTODY

EMSL Analytical, Inc.
14375 23rd Avenue North, Minneapolis, Mn 55447
Phone: (763) 449-4922 Fax: (763) 449-4924 Email: minneapolislab@emsl.com

Attn: **Greg Myers**
Midwest Environmental Consulting, L.L.C.
125 Railroad Ave SW

Mora, MN 55051

Fax: (763) 691-0145 Phone: (763) 691-0111
Project: **502/0112 F 914 Jassamine Ave E.**

Customer ID: MIDW56
Customer PO: cc/100448
Received: 01/17/12 8:30 AM
EMSL Order: 351200250

EMSL Proj:

Test Report: Lead in Dust by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	Analyzed	Area Sampled	RDL	Lead Concentration	Notes
0001	1/18/2012	144 in²	10 µg/ft²	18 µg/ft²	Site: Front Floor Entry (A)
Client Sample 502/0112 F W1					Collected: 1/16/2012
0002	1/18/2012	36 in²	40 µg/ft²	160 µg/ft²	Site: Living room Window Sill
Client Sample 502/0112 F W2					Collected: 1/16/2012
0003	1/18/2012	36 in²	40 µg/ft²	74 µg/ft²	Site: Main Floor Window Sill Bedroom (B)
Client Sample 502/0112 F W3					Collected: 1/16/2012
0004	1/18/2012	144 in²	10 µg/ft²	<10 µg/ft²	Site: Bedroom Floor under Window Main level
Client Sample 502/0112 F W4					Collected: 1/16/2012
0005	1/18/2012	144 in²	10 µg/ft²	15 µg/ft²	Site: Kitchen Floor By Back Door
Client Sample 502/0112 F W5					Collected: 1/16/2012
0006	1/18/2012	144 in²	10 µg/ft²	140 µg/ft²	Site: Floor by back entry upper level
Client Sample 502/0112 F W6					Collected: 1/16/2012
0007	1/18/2012	36 in²	40 µg/ft²	1800 µg/ft²	Site: Window Sill upper bedroom (A)
Client Sample 502/0112 F W7					Collected: 1/16/2012
0008	1/18/2012	144 in²	10 µg/ft²	17 µg/ft²	Site: Floor under Window Upper Bedroom
Client Sample 502/0112 F W8					Collected: 1/16/2012
0009	1/18/2012	144 in²	10 µg/ft²	<10 µg/ft²	Site: Upper Kitchen Floor
Client Sample 502/0112 F W9					Collected: 1/16/2012

Initial report from 01/18/2012 16:16:52

Rachel Travis, Laboratory Manager
or other approved signatory

Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. QC data associated with this sample set is within acceptable limits, unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. * slight modifications to methods applied.

Samples analyzed by EMSL Analytical, Inc. Minneapolis, Mn AIHA-LAP, LLC ELLAP 163162

EMSL Analytical, Inc.
14375 23rd Avenue North, Minneapolis, Mn 55447
Phone: (763) 449-4922 Fax: (763) 449-4924 Email: minneapolislab@emsl.com

Attn: **Greg Myers**
Midwest Environmental Consulting, L.L.C.
125 Railroad Ave SW

Mora, MN 55051

Fax: (763) 691-0145 Phone: (763) 691-0111
Project: **502/0112 F 914 Jassamine Ave E.**

Customer ID: MIDW56
Customer PO: cc/100448
Received: 01/17/12 8:30 AM
EMSL Order: 351200250

EMSL Proj:

Test Report: Lead in Dust by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	*Analyzed*	*Area Sampled*	*RDL*	*Lead Concentration*	*Notes*

Initial report from 01/18/2012 16:16:52

Rachel Travis, Laboratory Manager
or other approved signatory

Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. QC data associated with this sample set is within acceptable limits, unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. * slight modifications to methods applied.
Samples analyzed by EMSL Analytical, Inc. Minneapolis, Mn AIHA-LAP, LLC ELLAP 163162

250

Midwest Environmental Consulting, L.L.C.
125 Railroad Avenue SW • Mora, MN 55051
763-691-0111 / 320-679-4054
Fax: 763-691-0145 / 320-679-4442

Client Address:
Contact: Greg Meyer

CHAIN OF CUSTODY

Project Number: 502/0112F
Client: AllPhase / St Paul
Project: 914 Kasanine Ave E.
Phone/Fax:

Sample ID	Sample Description	Collection Date/Time	Matrix (Vol./Area)	Analysis Requested
502/0112F W1	Front Floor entry (A)	1/16/12 2:15 pm	12x12 in	Pb ug/ft2
W2	Living room window sill		18x2 in	
W3	main Floor window sill Bdrm (B)		18x2 in	
W4	Bedroom Floor under window / main level		12x12 in	
W5	Kitchen Floor By back door		12x12 in	
W6	Floor by back entry to upper level		12x12 in	
W7	window sill upper bdrm (A)		18x2 in	
W8	Floor under window upper bedroom		12x12 in	
W9	Upper hallway Floor		12x12 in	

Sampled by: Greg Meyer Date: 01/16/12 Time: 2:15p-2:00p Delivered by: Greg Meyer Date: 01/17/12 Time: 8:30 a
Received by: [signature] Date: 1/17/12 Time: 8:28 wI Delivered by: Date: Time:
Received by Lab: Date: Time: Disposition of Samples:
Notes: Required Field blank(s) included Only ASTM wipes used
Please analyze @ 48 hour turnaround

312200250

AllPhase Companies, Incorporated

404-A St. Croix Trail North, Lakeland, MN 55043
Phone: 651-436-2930 Fax: 651-436-3918

January 24, 2012

Cynthia Carlson Heins
Real Estate Manager
Planning and Economic Development
Suite 1100, 25 West 4th Street
Saint Paul, MN 55102

RE: Asbestos Survey
914 Jessamine Ave. E., St. Paul, MN
1596-12S-H

Dear Ms. Cynthia Carlson Heins:

AllPhase Companies, Incorporated, (AllPhase) performed an asbestos survey at the above referenced site in connection with a renovation in order to identify Asbestos-Containing Material (ACM), which is a building material that has greater than 1% asbestos. The following report contains the results of the survey performed at the above referenced site.

In summary, 32 samples of building materials were collected and analyzed for asbestos type and amount. Asbestos was detected above 1 percent in **two of the thirty-two samples**. These samples only represent building materials that were collected from the referenced building structure.

No samples detected asbestos above 0% and less then 1% asbestos.

Friable ACM, is defined by the Asbestos NESHAP, as any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM), that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. (Sec. 61.141)

Nonfriable ACM is any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Supbart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM), that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. EPA also defines two categories of nonfriable ACM, Category I and Category II nonfriable ACM, which are described later in this guidance.

"Regulated Asbestos-Containing Material" (RACM) is (a) friable asbestos material, (b) Category I nonfriable ACM that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

Refer to the asbestos Laboratory Report and chain of custody for other building materials tested and their locations. The following samples detected the presence of asbestos greater than 1%:

Category I - Floor tile in southwest entryway—21 sf
Category I - Flooring (layer immediately under the faux wood flooring) in pantry (SE Rm) 2nd floor—14 sf

This survey is an attempt to identify ACM. However, there is no guarantee that all potential ACM was identified. As a rehabilitation, wall interiors were not assessed. If suspect ACM is discovered during the work and is not listed in this or previous limited surveys, work on that portion of the building should cease, the material wetted and covered, and an asbestos inspector brought to the site to sample and submit to a certified laboratory the sample to determine its asbestos content. Pending analytical results, an abatement crew should remove the ACM before work continues.

INTRODUCTION

The scope of our services was to conduct an asbestos survey, which includes collecting a small portion of the building materials and submitting the sample to a certified laboratory for analysis by PLM. Analysis only assesses the portion of building material collected and submitted.

A. Collect bulk samples of suspect ACMs for laboratory analysis.
B. Analyze the collected samples for asbestos content.

Minnesota requires surveys to be performed by a Minnesota Certified Inspector. This survey was conducted by David Jenkin – Asbestos Inspector #AI8101.

Samples of suspect ACMs were collected by AllPhase by removing a small portion of the suspect material and then placing the individual samples into separate sealed containers.

DISCLAIMERS

Asbestos surveys do not necessarily succeed in identifying all locations and types of ACM on-site. This is because of the variety of locations and the inconsistency of asbestos occurrence in a given building material. Our survey is based solely upon the building materials that were observed and sampled for analysis. Therefore, if unsampled building materials are encountered during the demolition, they should be assessed on a material-by-material basis. If suspect ACM is observed which has not been listed in our evaluation, it should be collected and evaluated by a certified individual and laboratory, respectively. If there is a potential for that material to be ACM, work should stop until the question of asbestos content and/or abatement is resolved in a manner that protects human health and the environment and abides by regulatory guidelines.

Certain building materials are not considered suspect ACM and are not sampled as part of the survey. These materials include but are not limited to wood, concrete (with exceptions), plastics such as polyethylene, polystyrene and polyvinylchloride, fiberglass, rubber (natural and neoprene—black synthetic), foam insulation, metals and glass.

METHODOLOGY

Building materials were analyzed by a NVLAP-accredited laboratory, #101768-0. Laboratory analysis was conducted in accordance with Environmental Protection Agency (EPA) guidelines. The examination for the presence and identification of asbestos fibers in bulk samples is performed in the laboratory using cross-polarized light microscopy and dispersion-staining, particle-identification techniques. Analysis was performed in accordance with EPA 600/M4-82-020 and EPA 600/R-93/116 where applicable. This methodology determines the presence of asbestos varieties, which include Chrysotile, Amosite, Crocidolite, Anthophyllite, Tremolite and Actinolite.

REMARKS

Some of the rules and regulations set by the Environmental Protection Agency (EPA) may apply when the existence of ACMs is confirmed. A complete review of these rules can be found in Part 3 of the Federal Register EPA, 40 CFR Part 61. Summaries of these rules are as follows:

> According to §61.145 of NESHAPS, friable ACMs must be removed from the site prior to demolition. This includes materials that were originally non-friable but have become friable—that is, Category I & II material—due to damage or deterioration—for example, floor tile that has significant chipping or cracking. The necessity for the removal of Category I and II material is evaluated on a site-by-site basis.

Disturbing ACM may require that the Minnesota Pollution Control Agency and/or the Minnesota Department of Health be notified prior to activities with asbestos.

The environmental services performed by AllPhase's survey crew and analyst for this project have been conducted in a manner consistent with the degree of care and technical skill exercised by environmental professionals currently practicing in this area under similar budget and time constraints. Recommendations contained in this report represent our professional judgment at the time the project was performed. No other warranty is intended or implied.

David Jenkin, P.G.
Asbestos Inspector (#AI8101)

CEI Labs
107 New Edition Court, Cary, NC 27511
Phone: (919) 481-1413 Fax: (919) 481-1442

LABORATORY REPORT
ASBESTOS BULK ANALYSIS

AMENDED

Client: **AllPhase Companies, Inc.**
404-A St. Croix Trail, North
Lakeland , MN 55043

Project: 914 Jessamine Ave. E.; 1596-12S-H

CEI Lab Code: A12-0538
Received: 01-20-12
Analyzed: 01-24-12
Reported: 01-24-12
Analyst: Kamila Reichert

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
Je-1	A1243049 Heterogeneous,	GLAZING White, Non-fibrous, Bound BIND 100 %	ND
Je-2	A1243050A Homogeneous,	FLOOR TILE Off-white, Non-fibrous, Bound CHRY 5% VINYL 95 %	CHRY 5%
	A1243050B Homogeneous,	MASTIC Tan, Non-fibrous, Bound MAST 95 % CELL 5 %	ND
Je-3	A1243051 Homogeneous,	FLOOR TILE Black, Non-fibrous, Bound VINYL 95 % CELL 5 %	ND
Insufficient Mastic.			
Je-4	A1243052 Heterogeneous,	CEILING TEXTURE White, Non-fibrous, Bound PAINT 5 % CELL 2 % BIND 93 %	ND
Je-5	A1243053 Heterogeneous,	WALL TEXTURE White, Non-fibrous, Bound PAINT 5 % CELL 2 % BIND 93 %	ND

CEI Labs
107 New Edition Court, Cary, NC 27511
Phone: 919-481-1413 Fax: : 919-481-1442

Project: 914 Jessamine Ave. E.; 1596-12S-H

Lab Code: A12-0538

AMENDED

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
Je-6	A1243054	WALL TEXTURE	ND
	Heterogeneous,	White, Non-fibrous, Bound	
		PAINT 5 % CELL 2 %	
		BIND 93 %	
Je-7	A1243055	WALL TEXTURE	ND
	Heterogeneous,	White, Non-fibrous, Bound	
		PAINT 5 % CELL 2 %	
		BIND 93 %	
Je-8	A1243056	CEILING TEXTURE	ND
	Heterogeneous,	White, Non-fibrous, Bound	
		PAINT 5 % CELL 2 %	
		BIND 93 %	
Je-9	A1243057	CEILING TEXTURE ON CEILING TILE	ND
	Heterogeneous,	White, Non-fibrous, Bound	
		PAINT 5 % CELL 5 %	
		BIND 90 %	
Je-10	A1243058	FLOORING	ND
	Heterogeneous,	Tan, Non-fibrous, Bound	
		BIND 20 % CELL 65 %	
		VINYL 15 %	
Je-11	A1243059	FLOORING	ND
	Heterogeneous,	Red, Non-fibrous, Bound	
		BIND 20 % CELL 65 %	
		VINYL 15 %	
Je-12	A1243060A	FLOOR TILE	ND
	Heterogeneous,	Beige, Non-fibrous, Bound	
		VINYL 100 %	

CEI Labs
107 New Edition Court, Cary, NC 27511
Phone: 919-481-1413 Fax: : 919-481-1442

Project: 914 Jessamine Ave. E.; 1596-12S-H

Lab Code: A12-0538

AMENDED

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
Je-13	A1243061	CEILING TILE	ND
	Heterogeneous,	White, Non-fibrous, Bound	
		PAINT 5 % CELL 50 %	
		BIND 5 % FBGL 15 %	
		PERL 25 %	
Je-14	A1243062	CEILING TILE	ND
	Heterogeneous,	White, Non-fibrous, Bound	
		PAINT 5 % CELL 50 %	
		BIND 5 % FBGL 15 %	
		PERL 25 %	
Je-15	A1243063	FLOOR SHEETING	ND
	Heterogeneous,	White, Non-fibrous, Bound	
		VINYL 50 % CELL 45 %	
		BIND 5 %	
Je-16	A1243064	CEILING TILE	ND
	Heterogeneous,	White, Non-fibrous, Bound	
		PAINT 5 % CELL 50 %	
		BIND 5 % FBGL 15 %	
		PERL 25 %	
Je-17a	A1243065A	FLOOR TILE	ND
	Heterogeneous,	White, Non-fibrous, Bound	
		VINYL 100 %	
	A1243065B	MASTIC	ND
	Homogeneous,	Clear, Non-fibrous, Bound	
		MAST 100 %	
Je-17b	A1243066A	FLOOR TILE	ND
	Heterogeneous,	White, Non-fibrous, Bound	
		VINYL 100 %	

CEI Labs
107 New Edition Court, Cary, NC 27511
Phone: 919-481-1413 Fax: : 919-481-1442

Project: 914 Jessamine Ave. E.; 1596-12S-H

Lab Code: A12-0538

AMENDED

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
	A1243066B Homogeneous,	MASTIC Clear, Non-fibrous, Bound MAST 100 %	ND
Je-18a	A1243067A Heterogeneous,	CEILING TEXTURE White, Non-fibrous, Bound PAINT 5 % BIND 95 %	ND
	A1243067B Heterogeneous,	PLASTER Grey, Yellow, Non-fibrous, Bound BIND 40 % CELL 5 % SILI 50 % PAINT 5 %	
Je-18b	A1243068		
No Wall Patch present			
Je-19	A1243069 Heterogeneous,	CEILING TEXTURE White, Non-fibrous, Bound BIND 95 % PAINT 5 %	ND
Je-20	A1243070 Heterogeneous,	FLOORING Brown, Non-fibrous, Bound BIND 100 %	ND
Je-21	A1243071 Heterogeneous,	FLOORING Brown, Non-fibrous, Bound VINYL 15 % CELL 55 % BIND 30 %	ND

CEI Labs
107 New Edition Court, Cary, NC 27511
Phone: 919-481-1413 Fax: : 919-481-1442

Project: 914 Jessamine Ave. E.; 1596-12S-H

Lab Code: A12-0538

AMENDED

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
Je-22	A1243072A	FLOOR TILE	ND
	Heterogeneous,	White, Grey, Non-fibrous, Bound	
		VINYL 100 %	
	A1243072B	MASTIC	ND
	Homogeneous,	Clear, Non-fibrous, Bound	
		MAST 100 %	
Je-23a	A1243073	FLOORING	CHRY 25%
	Heterogeneous,	Off-white, Non-fibrous, Bound	
		CHRY 25% VINYL 40 % CELL 25 %	
Chry found in fibrous backing.		BIND 7 %	
Unable to separate mastic.		MAST 3 %	
Je-23b	A1243074	FLOORING	ND
	Heterogeneous,	Brown, Non-fibrous, Bound	
		VINYL 40 % CELL 40 %	
		BIND 20 %	
Je-24	A1243075	FLOORING	ND
	Heterogeneous,	Brown, Non-fibrous, Bound	
		VINYL 40 % CELL 40 %	
		BIND 20 %	
	A124360B	MASTIC	ND
	Homogeneous,	Beige, Non-fibrous, Bound	
		MAST 95 %	
		BIND 5 %	

The following definitions apply to the abbreviations used in the ASBESTOS BULK ANALYSIS REPORT:

CHRY = Chrysotile	CELL = Cellulose	DEBR = Debris
AMOS = Amosite	FBGL = Fibrous Glass	BIND = Binder
CROC = Crocidolite	CACO = Calcium Carbonate	SILI = Silicates
TREM = Tremolite	SYNT = Synthetics	GRAV = Gravel
ANTH = Anthophyllite	WOLL = Wollastonite	MAST = Mastic
ACTN = Actinolite	CERWL = Ceramic Wool	PLAS = Plaster
N D = None Detected	NTREM = Non-Asbestiform Tremolite	PERL = Perlite
NANTH = Non-Asbestiform Anthophyllite	FBGY = Fibrous Gypsum	RUBR =Rubber
		VER =Vermiculite

CLIENT: AllPhase Companies, Inc.

PROJECT: 914 Jessamine Ave. E.; 1596-12S-H

CEI LAB CODE: A12-0538 **AMENDED**

Stereoscopic microscopy and polarized light microscopy coupled with dispersion staining is the analytical technique used for sample identification. The percentage of each component is visually estimated by volume. These results pertain only to the samples analyzed. The samples were analyzed as submitted by the client and may not be representative of the larger material in question. Unless notified in writing to return samples, CEI Labs will discard all bulk samples after 30 days.

Many vinyl floor tiles have been manufactured using greater than 1% asbestos. Often the asbestos was milled to a fiber size below the detection limit of polarized light microscopy. Therefore, a "None Detected" (ND) reading on vinyl floor tile does not necessarily exclude the presence of asbestos. Transmission electron microscopy provides a more conclusive form of analysis for vinyl floor tiles.

It is certified by the signature below that CEI Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for the analysis of asbestos in bulk materials. The accredited test method is EPA / 600 / M4-82 / 020 for the analysis of asbestos in building materials. Procedures described in EPA / 600 / R-93 / 116 have been incorporated where applicable. The detection limit for the method is 0.1% (trace amount). CEI Labs's NVLAP accreditation number is #101768-0. This report is not to be used to claim product endorsement by NVLAP or any agency of the U. S. Government. This report and its contents are only valid when reproduced in full. Dust and soil analyses for asbestos using PLM are not covered under NVLAP accreditation.

ANALYST Kamila Reichert

REVIEWED BY

Tianbao Bai, Ph.D.
Laboratory Director

End of Report

A12.0538 (27)
A1243049. A1243075

CAROLINA ENVIRONMENTAL, INC.
107 New Edition Court, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

CHAIN OF CUSTODY RECORD
ASBESTOS/LEAD ANALYSIS

Pg 1 of 3

Client: AllPhase Companies, Inc.	Project Manager: David Jenkin
Address: 404-A St. Croix Trl N.	Phone: 651-436-2930
Lakeland, MN 55043	Fax: -3918
EMail: allphase.company@qwestoffice.net	
PO #: 914 Jessamine Ave. E.	

PROJECT DESCRIPTION	PROJECT CODE	ASBESTOS: PLM Bulk	PLM Point Count	PLM Gravimetric	PCM Air	TEM Bulk*	TEM Air*	LEAD PAINT: Lead Paint*	Lead Wipe*	Lead Soil*	Lead Air*	Other Analysis
Exterior, 1ST Fl. Window, W. Wall	Je-1 Glazing	X										
1ST Fl., SW Entryway	2 F.T., 12"x12", off-wht											
" , N. "	3 F.T., 9"x9", blk											
" , Stairway landing	4 Ceil. text.											
" , Stairwell, E. Wall	5 Wall text.											
" " , W. Wall	6 " "											
" , W.-Central Rm, W. Wall	7 " "											
" , NW Rm	8 Ceil. Text.											
" , Hall	9 " " on Ceil. File											
" , W-Central Rm (2 layers?)	10 Flooring											

TURN-AROUND TIME

*Lead results require 48 Hour TAT or longer

- ☐ 5 DAYS
- ☐ 3 DAYS
- ☒ 48 HOURS
- ☐ 24 HOURS*
- ☐ 4 HOURS*

CLIENT ID#
1596-12 S-27

Samples will be disposed of 30 days after analysis, unless otherwise requested.

REMARKS:

Relinquished By: David Jenkin	Date / Time: 1/17/12	Received By: Kristy Printz	Date / Time: JAN 20 2012 12:00PM
Relinquished By:	Date / Time:	Received By:	Date / Time:

A12.0538

CAROLINA ENVIRONMENTAL, INC.
107 New Edition Court, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

CHAIN OF CUSTODY RECORD
ASBESTOS/LEAD ANALYSIS

Client: AllPhase Companies, Inc.	Project Manager: David Jenkin
Address: 404-A St. Croix Trl N.	Phone: 651-436-2930
Lakeland, MN 55043	Fax: -3918
EMail: allphase.company@qwestoffice.net	
PO #: 914 Jessamine Ave, E.	

PROJECT DESCRIPTION	PROJECT CODE	ASBESTOS: PLM Bulk	ASBESTOS: PLM Point Count	ASBESTOS: PLM Gravimetric	ASBESTOS: PCM Air	ASBESTOS: TEM Bulk	ASBESTOS: TEM Air	LEAD PAINT: Lead Paint*	LEAD PAINT: Lead Wipe*	LEAD PAINT: Lead Soil*	LEAD PAINT: Lead Air*	Other Analysis
1st Fl., E-Central Rm closet	1a - 11 Flooring	X										
" , Bathrm	12 F.T. 12"x12"											
" , " 1st type, pin holes	13 Coil. Tile 2'x2'											
" " 2nd " , swirls	14 " " 2'x4'											
" , S. Rm	15 Floor Sheeting											
" , "	16 Coil. Tile, 2'x4'											
" , Stairwell to basement (2 types)	17a Floor shift 17a F.T. 12"x12"											
" " "	18a Coil. Text. / plaster											
" " "	18b Wall patch.											
2nd Fl., N. Rm	19 Coil. Text.											

TURN-AROUND TIME
**Lead results require 48 Hour TAT or longer*

- ☐ 5 DAYS
- ☐ 3 DAYS
- ☒ 48 HOURS
- ☐ 24 HOURS*
- ☐ 4 HOURS*

CLIENT ID#
1596-12 S-27

Samples will be disposed of 30 days after analysis, unless otherwise requested.

REMARKS:

Relinquished By: David Jenkin	Date / Time: 1/17/12	Received By: Kristy Privett	Date / Time: JAN 20 2012 12:00PM
Relinquished By:	Date / Time:	Received By:	Date / Time:

A12.0538

CAROLINA ENVIRONMENTAL, INC.

107 New Edition Court, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

CHAIN OF CUSTODY RECORD
ASBESTOS/LEAD ANALYSIS

Pg 3 of 3

Client: AllPhase Companies, Inc.	Project Manager: David Jenkin
Address: 404-A St. Croix Trl N.	Phone: 651-436-2930
Lakeland, MN 55043	Fax: -3918
EMail: allphase.company@qwestoffice.net	
PO #: 914 Jessamine Ave, E.	

PROJECT DESCRIPTION	PROJECT CODE	ASBESTOS: PLM/BULK	PLM/Point Count	PLM/Gravimetric	PCM	TEM/Bulk	TEM/Dust	LEAD PAINT: Paint Chip/Flame AA	Paint Chip/Graphite Furnace AA	Soil/Flame AA	Soil/Graphite Furnace AA	Wipe
2nd Fl., N. Rm	Je-20 Flooring	X										
" " closet	21 "											
" , S. Rm	22 F.T. 12"x12"											
" , SE Rm (Pantry) top layer	23a Flooring, off-wht											
" , " " base layer	b " , brwn											
1st Fl., S. Entry Landing	24 Flooring											

TURN-AROUND TIME
Lead results require 48 Hour TAT or longer

- ☐ 5 DAYS
- ☐ 3 DAYS
- ☒ 48 HOURS
- ☐ 24 HOURS*
- ☐ 4 HOURS*

CLIENT ID#
1596-125-H

REMARKS:

Samples will be disposed of 30 days after analysis, unless otherwise requested.

Relinquished By: David Jenkin	Date / Time: 1/17/12	Received By:	Date / Time:
Relinquished By:	Date / Time:	Received By:	Date / Time:

Neighborhood Energy Connection

Residential Energy Specification

Customer: City of Saint Paul

Auditor: Michael Childs

Address: 914 Jessamine Avenue E

Phone: 651-221-4462 x145

Spec ID#	Spec Title	Specification	Location / Notes
104	Replace Space Heater and Electric Baseboards with 95% AFUE, Multi-stage, Forced Air Furnace	Remove existing space heater and electric baseboards, recycle all metal components and dispose of all other materials in a code legal dump. Install a new ENERGY STAR rated, gas-fired, multi-stage burner, forced air furnace with a minimum AFUE rating of 95%+ and ECM Motor with 2" rise above floor. Connect to existing duct work and gas line. New furnace to be vented with PVC piping per manufacturer's specifications. New furnace will have minimum limited warranties of 20 years on heat exchangers; 5 years on parts. Include auto setback thermostat controls, vent pipe & new shut-off valve. Rework cold air return if necessary to ensure easy access, good fit & easy replacement of air filter. An exterior return air filter box shall be installed on one side, both sides or bottom of new furnace. Seal all exposed duct joints with duct mastic. Remove all existing cloth duct tape prior to installing mastic.	**Electric baseboards and gas space heater existing.**
304	Replace Water Heater with Power Vented .67 EF	Replace electric water heater with a power-vented water heater with an EF of .67. Include pressure & temperature release valve, discharge tube to within 6" of floor and PVC flue to power vent to exterior.	**Electric water heater existing.**

310	Install Central Air Conditioning Unit	Install 16 SEER split system central air conditioning unit, following local building code. Using OEM performance information and industry-approved procedures, confirm that the selected equipment satisfies/meets the load requirements at the system design conditions.	
500	Seal Attic Bypasses	Contractor shall seal all attic bypasses. Bypasses shall be defined as any break in the envelope of a house between a heated living space and an unheated area or exterior. Bypass locations include, but are not limited to, the following areas: chimneys, soil stacks, end walls, dropped ceilings, open plumbing walls, beneath knee walls and around duct work, electrical work and attic access points. Bypasses shall be sealed in such a manner that the movement of air through the bypass is essentially stopped. "Essentially stopped" means that air leakage will not be detected by an infrared scan when the house is pressurized to 30 Pascals. Materials to be used for sealing bypasses depend on the size and location of the bypass and meet code requirements. These materials include high quality caulks (20-year life span), polyethylene rod stock, foam, sheetrock, sheet metal, extruded polystyrene and densely packed insulation.	
510	Blow Open Attic to R-50	All bypasses shall be sealed before insulating in such a manner that the movement of air through the bypass is essentially stopped. Blow insulation to depth indicated on manufacturer's coverage chart, consistently and evenly to R-50. Insulation in the peak attic must be marked with a ruler to measure depth and a sign with the number of bags used and the date of the installation.	

512	Dense Pack Slants to capacity with cellulose	Determine cavities are free of hazards and can support dense packing pressures, locate drilling hazards, control dust when drilling from interior. Blow Slant walls with cellulose to capacity using the Dense Pack Method to a minimum density 3.5 lbs./ft³.	**Loose fill mineral wool existing.**
526	Insulate Above Bay Window	Insulate space above bays to capacity. Insulate floor to capacity. Access holes must be patched, plugged and painted as necessary.	
530	Install Air Chutes	When soffit vents are installed or existing, a passage for air movement shall be cleared before insulating. Baffles or chutes shall be installed to maintain the passage of free air. Attic areas below the baffle or chute shall be insulated to R-44 or to capacity as space allows.	
608	Wall insulation - Exterior Application: Remove Aluminum Siding, Drill, Dense Pack, Plug and Replace Siding	Siding shall be removed before drilling access holes. Determine cavities are free of hazards and can support dense packing pressures, locate drilling hazards, control dust when drilling from interior. Dense pack cellulose to a minimum density of 3.5 lbs./ft³ or dense pack spider fiberglass per manufacturer's instructions. Siding must be replaced without damage and nailed back with appropriate galvanized nails. Follow all applicable Lead Safe Work Practices as per the EPA's RRP Rules.	**Loose fill mineral wool - method depends on extent of rehab work.**
616	Wall insulation - Interior Application: Dense Pack Cellulose	Exterior walls insulated from inside the house shall be drilled through to provide access. Determine cavities are free of hazards and can support dense packing pressures, locate drilling hazards, control dust when drilling from interior. Dense pack cellulose to a minimum density of 3.5 lbs./ft³ or dense pack spider fiberglass per manufacturer's instructions. Follow all applicable Lead Safe Work Practices as per the EPA's RRP Rules.	**Loose fill mineral wool - method depends on extent of rehab work.**

618	Wall insulation - Interior Application: Fiberglass batt open cavities	Fit batt insulation between studs so that it fills the wall cavity without any gaps, voids, or compression. Call the NEC before sheet rocking.	**Loose fill mineral wool - method depends on extent of rehab work.**
620	Wall insulation - Interior Application: Spray foam open cavities	Follow manufacturer's instructions to completely and evenly fill the cavity. Call the NEC for inspection before sheet rocking.	**Loose fill mineral wool - method depends on extent of rehab work.**
800	Air Seal Rim Joist	Seal cracks and holes in rim joist using caulk, foam or other air tight materials.	
1000	Install ENERGY STAR Rated Kitchen Fan	Install an ENERGY STAR rated exhaust fan connected with insulated rigid ductwork into a dampered vent.	
1010	Install ENERGY STAR Rated 2-stage Bathroom Fan	Install an ENERGY STAR rated two-speed bathroom fan .8 sones or less, with a pre-set low-speed of 10-30 CFM and a high-speed boost capability of 70-110 CFM initiated by a wall switch or motion detector. Vent bathroom fan using rigid duct and insulated with fiberglass and vented out with dampered roof vent.	
1200	Replace incandescents with CFLs	Replace incandescent bulbs with ENERGY STAR rated compact fluorescent lights. Install fixtures that meet the lighting needs of the particular area.	
1210	Install ENERGY STAR Rated Washing Machine	Connect new ENERGY STAR rated clothes washer sized appropriately for the household. Use braided steel water supply lines and a smooth rubber drain line connected to a 2 inch drain with trap. Remove existing washer, recycle all metal components and dispose of all other materials in a code legal dump.	

1212	Install ENERGY STAR Rated Dishwasher	Install ENERGY STAR rated dishwasher including all alterations and connections to plumbing and electric system. Remove existing dishwasher, recycle all metal components and dispose of all other materials in a code legal dump.	
1214	Install ENERGY STAR Rated Refrigerator	Install ENERGY STAR rated refrigerator sized appropriately for the household. Remove existing refrigerator, recycle all metal components and dispose of all other materials in a code legal dump.	

Home Energy Rating Certificate

914 Jessamine Ave E

Saint Paul, MN 55106

3 Stars
Confirmed

Uniform Energy Rating System — **Energy Efficient**

1 Star	1 Star Plus	2 Stars	2 Stars Plus	3 Stars	3 Stars Plus	4 Stars	4 Stars Plus	5 Stars	5 Stars Plus
500-401	400-301	300-251	250-201	200-151	150-101	100-91	90-86	85-71	70 or Less

HERS Index: 161

General Information

Conditioned Area:	1865 sq. ft.	HouseType:	Single-family detached
Conditioned Volume:	15560 cubic ft.	Foundation:	More than one type
Bedrooms:	3		

Mechanical Systems Features

Heating:	Electric baseboard or radiant, Electric, 100.0 % EFF.
Heating:	Fuel-fired air distribution, Natural gas, 68.0 AFUE.
Water Heating:	Conventional, Electric, 0.91 EF, 40.0 Gal.
Duct Leakage to Outside:	NA
Ventilation System:	None
Programmable Thermostat:	Heating: No Cooling: No

Building Shell Features

Ceiling Flat:	R-19	Exposed Floor:	R-0
Vaulted Ceiling:	R-6	Window Type:	S W Op (w/St)
Above Grade Walls:	R-6	**Infiltration:**	
Foundation Walls:	R-0.0	Rate:	Htg: 4735 Clg: 4735 CFM50
Slab:	R-0.0 Edge, R-0.0 Under	Method:	Blower door test

Lights and Appliance Features

Percent Interior Lighting:	0.00	Range/Oven Fuel:	Natural gas
Percent Garage Lighting:	0.00	Clothes Dryer Fuel:	Natural gas
Refrigerator (kWh/yr):	691.00	Clothes Dryer EF:	2.67
Dishwasher Energy Factor:	0.46	Ceiling Fan (cfm/Watt):	0.00

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

REM/Rate - Residential Energy Analysis and Rating Software v12.99

This information does not constitute any warranty of energy cost or savings.

Registry ID:
Rating Number: **526-1277**
Certified Energy Rater: Michael Childs
Rating Date: 5/21/2012
Rating Ordered For: City of Saint Paul

Estimated Annual Energy Cost
Confirmed

Use	MMBtu	Cost	Percent
Heating	187.4	$3444	75%
Cooling	0	$0	0%
Hot Water	14.1	$374	8%
Lights/Appliances	25.7	$567	12%
Photovoltaics	-0.0	$-0	-0%
Service Charges		$180	4%
Total		**$4564**	**100%**

This home meets or exceeds the minimum criteria for all of the following:

TITLE
Company
Address
City, State, Zip
Phone #
Fax #

Home Energy Rating Certificate

914 Jessamine Ave E

Saint Paul, MN 55106

5 Stars
Projected Rating

Uniform Energy Rating System — **Energy Efficient**

1 Star	1 Star Plus	2 Stars	2 Stars Plus	3 Stars	3 Stars Plus	4 Stars	4 Stars Plus	5 Stars	5 Stars Plus
500-401	400-301	300-251	250-201	200-151	150-101	100-91	90-86	85-71	70 or Less

HERS Index: **83**

General Information

Conditioned Area:	1865 sq. ft.	HouseType:	Single-family detached
Conditioned Volume:	15560 cubic ft.	Foundation:	More than one type
Bedrooms:	3		

Mechanical Systems Features

Heating:	Fuel-fired air distribution, Natural gas, 95.0 AFUE.
Water Heating:	Conventional, Natural gas, 0.67 EF, 40.0 Gal.
Cooling:	Air conditioner, Electric, 16.0 SEER.
Duct Leakage to Outside:	60.00 CFM.
Ventilation System:	Exhaust Only: 80 cfm, 15.0 watts.
Programmable Thermostat:	Heating: Yes Cooling: Yes

Building Shell Features

Ceiling Flat:	R-50	Exposed Floor:	R-0
Vaulted Ceiling:	R-13	Window Type:	NFRC .34 / .33
Above Grade Walls:	R-13	**Infiltration:**	
Foundation Walls:	R-0.0	Rate:	Htg: 2735 Clg: 2735 CFM50
Slab:	R-0.0 Edge, R-0.0 Under	Method:	Blower door test

Lights and Appliance Features

Percent Interior Lighting:	90.00	Range/Oven Fuel:	Natural gas
Percent Garage Lighting:	0.00	Clothes Dryer Fuel:	Natural gas
Refrigerator (kWh/yr):	691.00	Clothes Dryer EF:	2.67
Dishwasher Energy Factor:	0.46	Ceiling Fan (cfm/Watt):	0.00

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

REM/Rate - Residential Energy Analysis and Rating Software v12.99

This information does not constitute any warranty of energy cost or savings.

Registry ID:
Rating Number: **526-1277**
Certified Energy Rater: Michael Childs
Rating Date: 5/21/2012
Rating Ordered For: City of Saint Paul

Estimated Annual Energy Cost
Projected Rating

Use	MMBtu	Cost	Percent
Heating	119.9	$1092	56%
Cooling	1.4	$41	2%
Hot Water	18.8	$169	9%
Lights/Appliances	22.4	$480	24%
Photovoltaics	-0.0	$-0	-0%
Service Charges		$180	9%
Total		**$1962**	**100%**

This home meets or exceeds the minimum criteria for all of the following:

TITLE
Company
Address
City, State, Zip
Phone #
Fax #

DEPARTMENT OF SAFETY AND INSPECTIONS
Ricardo X. Cervantes, Director

CITY OF SAINT PAUL
Christopher B. Coleman, Mayor

375 Jackson Street, Suite 220
Saint Paul, Minnesota 55101-1806

Telephone: 651-266-8989
Facsimile: 651-266-9124
Web: www.stpaul.gov/dsi

Code Compliance Report

May 14, 2012

*** * This Report must be Posted on the Job Site * ***

Housing and Redevelopment
25 W 4th St Ste 1300
St Paul MN 55102

Re: 914 Jessamine Ave E
File#: 09 084323 VB2

Dear Property Owner:

The following is the Code Compliance report you requested on February 13, 2012.

Please be advised that this report is accurate and correct as of the date May 14, 2012. All deficiencies identified by the City after this date must also be corrected and all codes and ordinances must be complied with. This report is valid for 365 days from May 14, 2012. This report may be used in lieu of a Truth in Housing Report required in St Paul Legislative Code 189. This building must be properly secured and the property maintained at all times.

In order to sell or reoccupy this property the following deficiencies must be corrected:

BUILDING Inspector: Ken Eggers Phone: 651-266-9047

- Install handrails (34 inches - 38 inches above each nosing) and guardrails (36 inch minimum) at all stairways, and return hand rail ends into a newel post or wall per attachment.
- Repair or Replace any deteriorated window sash, broken glass, sash holders, re-putty, etc as necessary.
- Provide complete storms and screens, in good repair for all door and window openings.
- Provide functional hardware at all doors and windows
- Exit doors shall be capable of being opened from the inside, easily and without the use of a key. Remove all surface bolts.
- Repair walls, ceiling and floors throughout, as necessary.
- Prepare and paint interior and exterior as necessary. Observe necessary abatement procedures (EPA, MPCA and St. Paul Legislative Code, Chapter 34 for additional information) if lead base paint is present.
- Air-seal and insulate attic/access door.
- Install Smoke Detectors/Carbon Monoxide Detectors per MN Conservation Code and the MN Dept. of Labor and Industry: Install per code where feasible.
- Provide major clean-up of premises.

BUILDING Inspector: Ken Eggers Phone: 651-266-9047

- Repair siding, soffit, fascia, trim, etc. as necessary.
- Provide proper drainage around house to direct water away from foundation of house.
- Provide proper drainage around house to direct water away from foundation of garage.
- Install downspouts and a complete gutter system on east side of house and garage.
- Install rain leaders to direct drainage away from foundation.
- Provide durable, dustless parking surface as specified in the zoning code.
- Openings in stair risers must be less than 4 inches.
- Properly repair shingles on garage that nails have lifted up.
- Move north wall of garage back where it was on foundation.
- Install 1 hour fire rated wall assembly on east side of garage.
- Roof needs covering replaced in rear future.
- Replace stairs to basement.
- Remove second kitchen from second floor.
- A building permit is required to correct the above deficiencies.

ELECTRICAL Inspector: Dave Blank Phone: 651-266-9032

- Ground the electrical service to the water service with a copper conductor within 5 feet of the entrance point of the water service
- Bond around water meter with a copper wire sized for the electrical service per Article 250 of the NEC
- Provide a complete circuit directory at service panel indicating location and use of all circuits
- Verify/install a separate 20 ampere laundry circuit and a separate 20 ampere kitchen appliance circuit
- Verify that circuit breaker amperage matches wire size
- Close openings in service panel/junction boxes with knockout seals, breaker blanks, and/or junction box covers
- Properly strap cables and conduits in basement/ service conduit on the exterior of the house.
- Provide one (1) light for each 200 square feet in unfinished basement. One light must be switched on from the top of the stairs
- Ground bathroom light in first and second floor bathroom.
- Repair or Replace all broken, missing or loose light fixtures, switches and outlets, covers and plates
- Check all outlets for proper polarity and verify ground on 3-prong outlets
- Remove any 3-wire ungrounded outlets and replace with 2-wire or ground 3-wire to code
- Install hard-wired, battery backup smoke detector per bulletin 80-1 and other smoke detectors as required by the IRC. Also, Install carbon monoxide detector(s) within 10 feet of all bedrooms
- Install exterior lights at front and side entry doors
- Remove and or/ re-wire all illegal, improper or hazardous wiring in basement/garage
- Replace all painted-over receptacles.

ELECTRICAL Inspector: Dave Blank Phone: 651-266-9032

- Properly install electric water heater.
- Verify/correct baseboard heat installations - remove air conditioner receptacle.
- Verify/Correct surface raceway installation.
- Add receptacle outlet in upper level east bedroom.
- Properly install kitchen light fixture.
- Protect wiring above front entry door and remove metallic enclosure unless grounded.
- Based on repair list, purchase permit for 15 circuits.
- All added receptacles must be grounded, tamper-resistant and be on an Arc-Fault Circuit Interrupter-protected circuit.
- Any open walls or walls that are opened as part of this project must be wired to the standards of the current NEC.
- All buildings on the property must meet the St. Paul Property Maintenance Code (Bulletin 80-1).
- All electrical work must be done by a Minnesota-licensed electrical contractor under an electrical permit.

PLUMBING Inspector: Rick Jacobs Phone: 651-266-9054

- Basement - Water Heaters - gas venting incorrect (IFGC 503)
- Basement - Water Heaters - not fired or in service (MPC 2180)
- Basement - Water Meter - corroded piping; incorrect piping (MPC 0200 0.)
- Basement - Water Meter - meter is removed or not in service (MPC 4715.1700)
- Basement - Water Meter - meter needs repair or is broken
- Basement - Water Meter - raise meter to a minimum 12 inches above floor (MPC 2280)
- Basement - Water Meter - service valves not functional or correct (MPC 1800 Subp 3,4)
- Basement - Water Meter - remove all galvanized pipe and fittings on the inlet side of the meter.
- Basement - Water Piping - improper fittings or usage (MPC 0420)
- Basement - Water Piping - provide water piping to all fixtures and appliances (MPC 1700)
- Basement - Water Piping - repair or replace all corroded, broken or leaking piping (MPC 4715.1720)
- Basement - Water Piping - run 1 inch water line from meter to first major take off (SPRWS Water Code)
- Basement - Water Piping - replace missing water piping to code.
- Basement - Gas Piping - dryer gas shutoff; connector or piping incorrect (IFGC 402.1)
- Basement - Gas Piping - replace improper piping or fittings (IFGC 406.1.2)
- Basement - Gas Piping - run dryer vent to code (IFGC 613.1 - IMC 604.1)
- Basement - Soil and Waste Piping - add appropriate hangers (MPC 1430 Subp. 4)
- Basement - Soil and Waste Piping - improper connections, transitions, fittings or pipe usage (MPC 2420)
- Basement - Soil and Waste Piping - replace corroded cast iron or steel waste piping (MPC 0200)

PLUMBING Inspector: Rick Jacobs Phone: 651-266-9054

- Basement - Laundry Tub - faucet is missing, broken or parts missing (MPC 0200. P.)
- First Floor - Gas Piping - range gas shut off; connector or piping incorrect (IFGC 411 1.3.3)
- First Floor - Lavatory - waste incorrect (MPC 2300)
- First Floor - Sink - incorrectly vented (MPC 2500)
- First Floor - Sink - waste incorrect (MPC 2300)
- First Floor - Sink - water piping incorrect (MPC 0200 P.)
- First Floor - Toilet Facilities - waste incorrect (MPC 2300) also reset toilet on a firm base.
- First Floor - Tub and Shower - provide anti-scald valve (MPC 1380. Subp. 5)
- Second Floor - Gas Piping - the gas piping to the second floor heater is incorrect.
- Second Floor - Toilet Facilities - water piping incorrect (MPC 0200 P.)
- Second Floor - Tub and Shower - provide anti-scald valve (MPC 1380. Subp. 5)
- Exterior - Lawn Hydrants - Broken or parts missing (MPC 0200 K)
- Exterior - Lawn Hydrants - Requires backflow assembly or device (MPC 2000)
- Comments: - Repair corroded vent stack in stairwell of second floor behind the bathroom. Properly permit the new lavatory and toilet on the second floor.
- Obtain plumbing permits prior to commencement of work.

HEATING Inspector: Maureen Hanson Phone: 651-266-9043

- Clean and Orsat test second floor wall furnace burner. Check all controls for proper operation. Check furnace heat exchanger for leak; provide documentation from a licensed contractor that the heating unit is safe
- Vent clothes dryer to code
- Provide support for gas lines to code
- Plug, cap and/or remove all disconnected gas lines and unapproved valves.
- Provide a window in the bathrooms with an aggregate glazing area of not less than 3 square feet, one-half of which must be openable or provide exhaust system vented to outside. A mechanical ventilation permit is required if an exhaust system is installed.
- Provide heat in every habitable room and bathrooms
- Mechanical gas permit is required for the above work.

ZONING

1. This property is in a(n) RT1 zoning district.
2. This property was inspected as a Single Family Dwelling.

Notes:

- See attachment for permit requirements and appeals procedure.
- Most of the roof covering could not be inspected from grade. Recommend this be done before rehabilitation is attempted.

This is a registered vacant building. In order to sell or reoccupy this building, all deficiencies listed on this code compliance report must be corrected in accordance with the Minimum Housing Standards of the St. Paul Legislative Code (Chapter 34) and all required permits must receive final approval within six (6) months of the date of this report. One (1) six-month time extension may be requested by the owner and will be considered if it can be shown that the code compliance work is proceeding and is more than fifty (50) percent complete in accordance with Legislative Code Section 33.03(f).

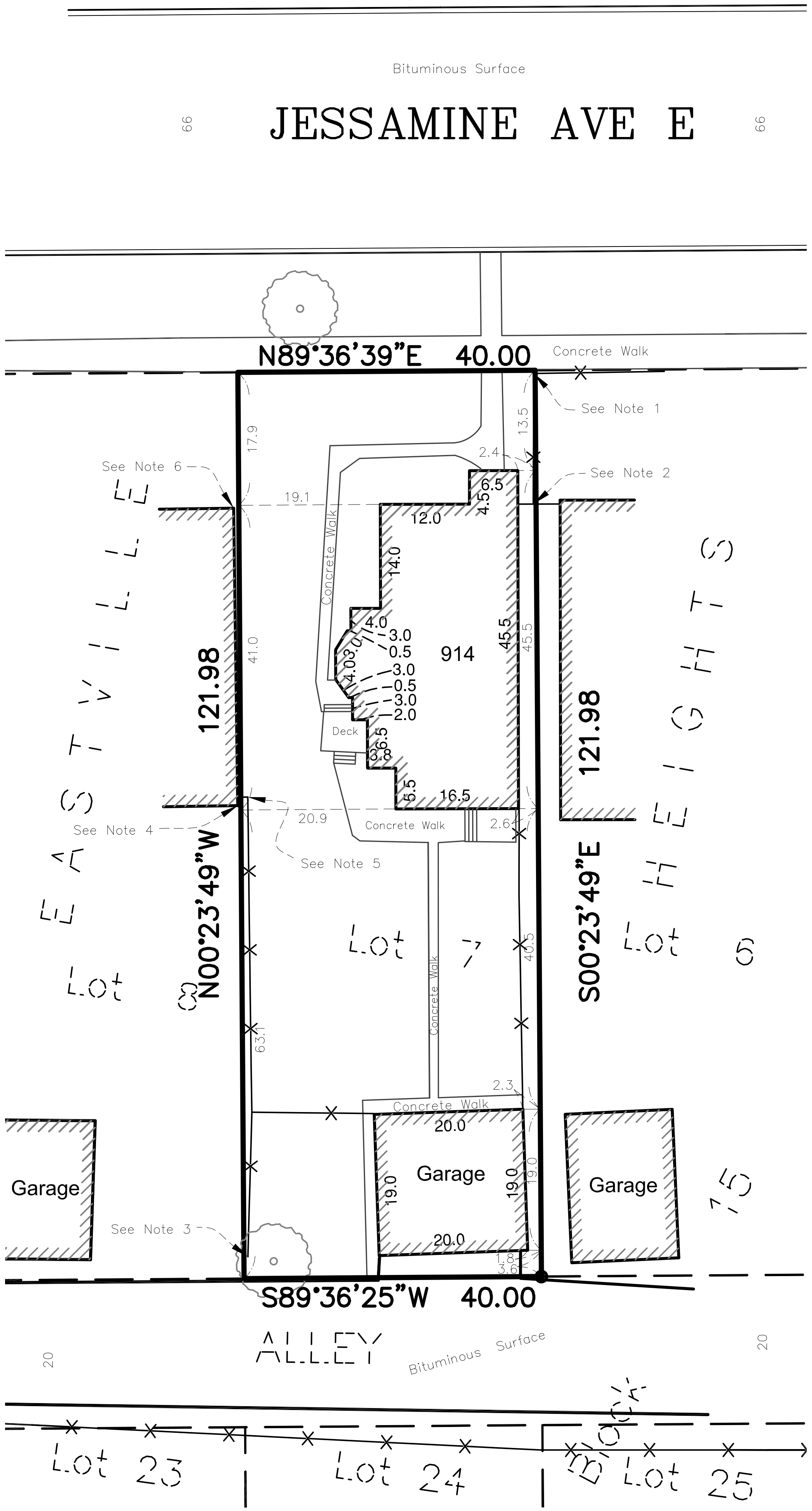
You may file an appeal to this notice by contacting the City Clerk's Office at 651-266-8688. Any appeal must be made in writing within 10 days of this notice. (You must submit a copy of this notice when you appeal, and pay a filing fee.)

If you have any questions regarding this inspection report, please contact Ken Eggers between 7:30 - 9:00 AM at 651-266-9046 or leave a voice mail message.

Sincerely,

James L. Seeger
Code Compliance Officer
Department of Safety and Inspections
City of Saint Paul
375 Jackson Street, Suite 220
Saint Paul MN 55101
Phone: 651-266-9046
Email: james.seeger@ci.stpaul.mn.us

JLS:ml
Attachments



Description of Property Surveyed

(Per Schedule A of Old Republic National Title Insurance Company Title Commitment No. ORTE720806, dated August 21, 2009)

Lot 7, Block 15, EASTVILLE HEIGHTS, Ramsey County, Minnesota.

General Notes

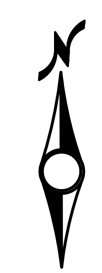
1) Subject Property Address is 914 Jessamine Ave E.
2) Initial field work was completed on 01/18/2012.
3) Subject to easements and restrictions of record, if any.
4) There are no BENCH MARK elevations set for this site.
5) Datum: Horizontal and Vertical Datum are assumed.

Survey Notes

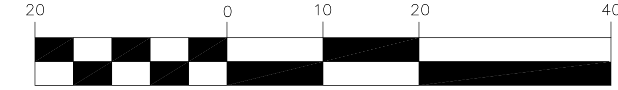
1) Fence corner is 0.4 Feet West of and 0.2 Feet South of the northeast property corner.
2) Fence corner is 0.4 Feet West of property line.
3) Fence corner is 0.5 Feet East of property line.
4) Building corner is 0.4 Feet West of property line.
5) Fence corner is 0.9 Feet East of property line.
6) Building corner is 0.7 Feet West of property line.

LEGEND

- FOUND 1/2 INCH IRON PIPE
- CHAIN LINK FENCE
- CONCRETE CURBING
- DECIDUOUS TREE
- CONIFEROUS TREE



GRAPHIC SCALE

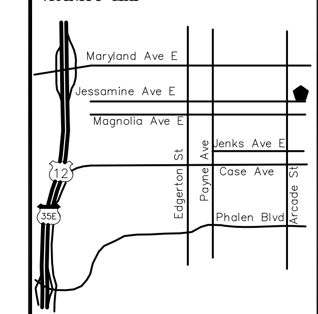


(IN FEET)
1 inch = 20 ft.

914 JESSAMINE AVE E

for City of Saint Paul, MN

VICINITY MAP



I HEREBY CERTIFY THAT THIS SURVEY, PLAN OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.

MICHAEL R. WILLIAMS
DATE: 01/18/2012 REG. NO. 44076

EVS
ENGINEERING SURVEYING ENVIRONMENTAL PLANNING

REVISIONS

1	01/27/12	INITIAL DRAWING SUBMITTAL

SCALE: 1 Inch = 20 Feet
DATE:
DRAWN: MRW
CHECKED:
PROJ. NO.: 2012-001.2
FILE: 2012-001.2 – 914 Jessamine.dwg

Property Survey

-Exhibit-

1 OF 1