

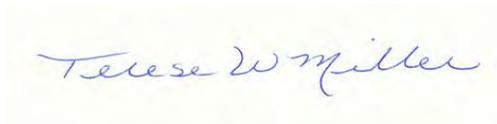
ASBESTOS AND LEAD-BASED PAINT SURVEY

737 Plum Street
St. Paul, Minnesota

Prepared for:

City of St. Paul
Department of Planning and Economic Development
1100 City Hall Annex
25 West 4th Street
St. Paul, Minnesota 55102-1623

Submitted by:



Terese W. Miller
Principal Consultant, CEO



St. Croix Environmental, Inc.
1094 Golden Oaks Drive
Hudson, Wisconsin 54016

January 27, 2012

TABLE OF CONTENTS

1. Introduction.....	1
2. Asbestos Survey.....	1
2.1. ACM Sampling.....	1
2.2. ACM Results	2
3. Lead-Based Paint Survey	2
3.1. Lead-Based Paint Sampling.....	2
3.2. Lead-Based Paint Results	3
4. Definitions.....	3
5. Inspection and Sampling Limitations.....	4

APPENDICES

Appendix I	Asbestos Survey Report
Appendix II	Lead-Based Paint Testing Report

1. Introduction

St. Croix Environmental, Inc. (SCE) was retained by the City of St. Paul (the City) to administer a Survey of the property located at 737 Plum Street in St. Paul, Minnesota (the Site). The Site is occupied by a duplex which is scheduled for rehabilitation.

The purpose of the work was to evaluate building materials suspected to contain asbestos and lead-based paint as follows:

- Identify asbestos containing materials (ACM) at the Site as defined by the Environmental Protection Agency (EPA), Minnesota Pollution Control Agency (MPCA), and the Minnesota Department of Health (MDH).
- Identify surfaces that contain lead-based paint prior to rehabilitation in accordance with US Department of Housing and Urban Development (HUD) guidelines.

The work did not include a survey for hazardous materials other than asbestos or lead-based paint.

2. Asbestos Survey

On January 17, 2012, Tim Marxhausen, a Minnesota Department of Health (MDH) Certified Asbestos Inspector with Parks Environmental Consulting, Inc. completed the building survey and sampling activities.

2.1. ACM Sampling

A list of the suspect asbestos materials that were sampled can be found in **Appendix I**. Materials other than those listed, and not sampled, were either: 1) not considered suspect for asbestos content (e.g. fiberglass insulation, concrete, brick, plastic); or, 2) inaccessible, such as materials in wall cavities, confined spaces, or locked rooms/areas. If suspect asbestos containing materials other than those listed and sampled are discovered at the Site, they should be considered asbestos containing until testing proves otherwise.

The samples were analyzed for asbestos content by EPA Method 600/R-93/116, at Schneider Laboratories, Richmond, Virginia. Schneider's laboratory is accredited for asbestos bulk material analysis under the National Institute of Sciences' National Voluntary Laboratory Accreditation Program (NVLAP). The analytical method's lower detection limit is one-percent asbestos by volume. The method provides a visual estimation of asbestos in the material sample.

2.2. ACM Results

A copy of the analytical laboratory report is included in **Appendix I**. The sample location diagram is also included in the appendix.

The following materials were found to contain asbestos:

TABLE 1 – Summary of Asbestos Containing Building Materials				
Sample Number	Description	Location	Friable	Approx. Amount
FT-01	12" Vinyl Floor Tile, beige and brown pattern	Lower Unit – Kitchen and back door foyer	No	275 SF
LIN-01	Linoleum – red with black backing paper	Lower Unit – Kitchen and back door foyer (bottom layer)	Yes	275 SF
TS-01	Transite Siding Shingles	Exterior Siding of Duplex	No	UND

SF = Square Feet UND = Undetermined

3. Lead-Based Paint Survey

On January 21, 2012, Matthew Erickson, a Minnesota-licensed lead risk assessor with Peer Engineering, Inc., performed a HUD lead-based paint inspection and risk assessment of the property. At the request of the City of Saint Paul (City), this report provides information in accordance with HUD guidelines regarding the identification of lead-based paint.

3.1. Lead-Based Paint Sampling

Observations for lead-based paint, conducted in accordance with HUD guidelines, include a description of condition. Based on current regulatory definitions, lead-based paint is defined as paint containing lead concentrations equal to or greater than 1.0 milligrams per square centimeter (mg/cm²) when using a Niton X L X-ray fluorescence (XRF) analyzer. The XRF provides the measured lead concentration in weight of lead per unit area.

3.2. Lead-Based Paint Results

The following table summarizes lead-based paint testing results. Complete results of the XRF analyzer are presented in **Appendix II**.

LOCATION	COMPONENT
Unit 1, Living Room	Painted wood door components
Unit 1, Living Room	Painted wood baseboards
Unit 1, Living Room	Painted wood window components
Bathroom	Bath tub
Unit 1, Kitchen	Painted wood door components (door to basement)
Unit 1, Kitchen	Painted wood window sash
Unit 1, Kitchen	Painted drywall walls
Basement Stairway	Painted wood baseboards
Exterior	Painted wood column
Exterior	Painted wood soffit
Exterior	Metal soffits, fascia & trim (depth index indicates lead beneath the metal surfaces)
Exterior	Metal window components (depth index indicates lead beneath the metal surfaces)
Exterior	Transite siding
Exterior	Painted wood window components
Stairway to 2 nd Floor	Painted wood baseboards

4. Definitions

The following definitions apply to this report:

- The EPA/MPCA/MDH defines ACM as any material that contains greater than one percent asbestos by volume. Materials found to contain one percent or less asbestos by volume are not regulated as ACM by EPA/MPCA/MDH.
- Friable ACM is defined as any material that contains greater than one percent asbestos, and which can be crumbled, pulverized, or reduced to powder by hand pressure.
- Category I non-friable ACM means asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than one percent asbestos. Category I non-friable ACM is not allowed to remain in place during renovation/rehabilitation if it is in a condition where the renovation/rehabilitation activities might cause it to become friable.
- Category II non-friable ACM means any material, excluding Category I non-friable ACM, containing more than one percent asbestos that, when dry, cannot be crumbled, pulverized, or reduced to a powder by hand pressure. Category II non-friable ACM is not allowed to remain in place during renovation or rehabilitation if it has a high probability of becoming crumbled, pulverized, or reduced to a powder during renovation, rehabilitation, transport, or disposal.

5. Inspection and Sampling Limitations

This survey report is intended to describe lead-based paint and ACM that may be present at the subject site, including those that may be impacted during renovation or rehabilitation activities. Services performed by the consultant were conducted in accordance with generally recognized industry standards and current MPCA and MDH guidelines, and in a manner consistent with the level of care and skill ordinarily exercised by other professional consultants under similar circumstances and under similar budget and time constraints. No other warranty is made or intended.

The survey is not intended to be technically exhaustive and no representation is made to the client, expressed or implied, and no warranty or guarantee is included or intended. It is possible that some materials were not identified during the course of the inspection at this site. Such unidentified materials would be those that are hidden from view, such as f lootile under floor tile or carpet, pipe insulation in wall cavities, materials out of reach in high ceiling areas, materials located under or behind finish materials, or materials inadvertently overlooked. Building materials known to possibly contain asbestos or lead-based paint which were not sampled as part of this survey should be assumed to be asbestos or lead containing until proven otherwise.

The consultant and/or inspector for this survey are notheld responsible or liable for any repairs or replacements with regards to this property, systems, components, or the contents therein. Material samples were analyzed by an independent outside laboratory; the results of their analyses are presented herein. While we choose an established, reputable and certified lab to perform the sample analysis, SCE does not warrant the accuracy of the laboratory results.

The information contained in this report represents the consultant's best efforts to determine the presence of lead-based paint and ACM at the site given the site conditions. No inspection was carried out of flues, chutes, ducts, voids and any similar enclosed areas, the access to which would necessitate the use of specialist equipment or tools, or which would have caused damage to decoration, fixtures, fittings or the structure of the building. We are therefore unable to report on the presence of asbestos or lead in these areas, and accept no responsibility for the presence of such.



ASBESTOS MATERIALS SURVEY REPORT

HOUSE

**737 PLUM STREET
ST. PAUL, MINNESOTA**

Prepared for:

**St. Croix Environmental
1094 Golden Oaks Drive
Hudson, Wisconsin**

Prepared by:

**Parks Environmental Consulting, Inc.
4749 Chicago Avenue S.
Minneapolis, Minnesota
(612) 353-6528**

Parks Project # 9360

January 25, 2012

TABLE OF CONTENTS

	<u>Page</u>
1.0 Executive Summary	1
2.0 Background	1
3.0 Methods.....	2
4.0 Data and Findings Summary.....	2
5.0 Recommendations	3
6.0 Inspection and Sampling Limitations.....	4

LIST OF TABLES

Table 1	Summary of Asbestos Containing Building Materials
Table 2	Identified and Sampled Suspect ACM

LIST OF APPENDICES

Appendix A	Asbestos Laboratory Report
Appendix B	Site Sketch with Sample Locations
Appendix C	Inspector Certification

1.0 Executive Summary

St. Croix Environmental, Inc. (SCE) contracted with Parks Environmental Consulting, Inc. (Parks) to conduct an inspection and sampling for asbestos-containing materials (ACM) in the vacant duplex located at 737 Plum Street, St. Paul, Minnesota.

Mr. Tim Marxhausen of Parks conducted the asbestos audit and sampling at the site January 17, 2012. Accessible interior and exterior building materials were surveyed, suspect asbestos materials were sampled in general accordance with Environmental Protection Agency (EPA) Asbestos Hazard Emergency Response Act (AHERA) sampling rules, samples were analyzed for asbestos content, and this report was then prepared.

Asbestos Materials

The following materials were found to contain asbestos:

TABLE 1 – Summary of Asbestos Containing Building Materials				
Sample Number	Description	Location	Friable	Approx. Amount
FT-01	12" Vinyl Floor Tile, beige and brown pattern	Lower Unit – Kitchen and back door foyer	No	275 SF
LIN-01	Linoleum – red with black backing paper	Lower Unit – Kitchen and back door foyer (bottom layer)	Yes	275 SF
TS-01	Transite Siding Shingles	Exterior Siding of Duplex	No	UND

SF = Square Feet UND = Undetermined

Sixteen types of suspect asbestos materials were sampled and tested. Of these materials, only the above listed material was found to contain asbestos.

Details of the site inspection and sampling are provided in the following sections. A table listing each sampled suspect asbestos homogeneous material, its location and analytical result is located in Section 4.0 of this report. The laboratory report is included in Appendix A.

2.0 Background

SCE requested that Parks assist with the evaluation of building materials suspected to contain asbestos in the vacant duplex located at 737 Plum Street, St. Paul, Minnesota. Parks inspected the building for suspect asbestos materials, sampled such materials, facilitated sample analysis by an outside laboratory, compiled the data, and prepared this report.

On January 17, 2012, Tim Marxhausen, Minnesota Department of Health (MDH) Certified Asbestos Inspector #AS-2271, inspected the building for suspect ACM. Parks collected 38 building material samples for asbestos analysis. The samples were analyzed at Schneider Laboratories in Richmond, Virginia.

Asbestos Material Sampling

The following types of building materials were considered, for the purposes of this survey, suspect ACM, and thus sampled:

- Linoleum (seven types)
- Vinyl Floor Tile
- Acoustical Ceiling Tile (two types)
- Acoustical Ceiling Texture (two types)
- Sheetrock with Joint Compound
- Window Glazing/Putty
- Ceiling Plaster
- Transite Siding Shingles

A Site Sketch indicating sample locations is provided in Appendix B.

3.0 Methods

Material samples were analyzed for asbestos content by Polarized Light Microscopy, EPA Method 600/R-93/116, at Schneider Laboratories, Richmond, Virginia. Schneider's laboratory is accredited for asbestos bulk material analysis under the National Institute of Sciences' National Voluntary Laboratory Accreditation Program (NVLAP). The analytical method's lower detection limit is one-percent asbestos by volume. The method provides a visual estimation of asbestos in the material sample.

4.0 Data and Findings Summary

The following table summarizes sampled suspect asbestos materials with their locations, and analytical results. Materials other than those listed here, and not sampled, were either: 1) not considered suspect for asbestos content (e.g. fiberglass insulation, concrete, brick, plastic); or, 2) inaccessible, such as materials in wall cavities, confined spaces, or locked rooms/areas. In general, except where noted, exterior building materials were not sampled. If suspect asbestos containing materials other than those listed and sampled below are discovered at the site, they should be considered asbestos containing until testing proves otherwise.

TABLE 2 – Identified and Sampled Suspect ACM			
Sample Number	Material Description	Location	Results
CT-01A, B, C	12" tongue and groove Acoustical Ceiling Tile, textured finish	Lower Unit – Front Bedroom	Non-Asbestos

TABLE 2 – Identified and Sampled Suspect ACM			
Sample Number	Material Description	Location	Results
CT-02A, B	12" square tongue and groove. Smooth finish.	Upper Unit – Front Bedroom	Non-Asbestos
CTEX-01A, B, C	Spray-applied Acoustical Ceiling Texture	Lower Unit – all rooms except Kitchen and front bedroom	Non-Asbestos
CTEX-02A, B, C	Spray-applied Acoustical Ceiling Texture	Upper Unit – Hall and family room	Non-Asbestos
FT-01A, B	12" Vinyl Floor Tile, beige and brown pattern, with yellow adhesive	Lower Unit – Kitchen and back door foyer	Asbestos 4% chy (tile only)
LIN-01A, B	Linoleum – red with black backing paper	Lower Unit – Kitchen and back door foyer (bottom layer)	Asbestos 2% chy
LIN-02A, B	Linoleum – tan/brown rectangles pattern	Lower Unit – Kitchen (top layer)	Non-Asbestos
LIN-03A, B	Linoleum – gray squares pattern	Lower Unit – Front door foyer	Non-Asbestos
LIN-04A, B	Linoleum – gray / off-white	Lower Unit – Front Bathroom	Non-Asbestos
LIN-05A, B	Linoleum – tan/beige squares	Upper Unit – Kitchen (top layer)	Non-Asbestos
LIN-06A, B	Linoleum – brown/tan mottle pattern	Upper Unit – Bathroom	Non-Asbestos
LIN-07A, B	Linoleum – gold/yellow/cream pattern	Upper Unit – Kitchen (bottom layer)	Non-Asbestos
PL-01A, B, C	Wall and Ceiling Plaster	Upper Unit – Ceilings in bedrooms	Non-Asbestos
SRJC-01A, B, C, D, E, F	Sheetrock with Joint Compound	Throughout (Upper and Lower Levels)	Non-Asbestos
TS-01	Transite Siding Shingles	Exterior Siding of Duplex	Asbestos 15% chy
WG-01	Window Glazing/Putty	Lower Level, 2-3 windows	Non-Asbestos

5.0 Recommendations

Prior to renovation or demolition, an asbestos abatement contractor should properly remove the asbestos linoleum and floor tile. These materials may present a hazard to persons during construction and cannot be disposed in a general construction debris landfill.

The Asbestos Siding should not be sawed, drilled, broken, crushed or otherwise abraded; it cannot be disposed in a general construction debris landfill.

The above are general and limited asbestos recommendations. MDH, (EPA), and Occupational Safety and Health Administration (OSHA) rules and guidelines for asbestos should be referenced prior to disturbance of asbestos materials.

6.0 Inspection and Sampling Limitations

It is possible that some suspect asbestos, or asbestos containing, materials and hazardous materials were not identified during the course of the inspection at this site. Such unidentified materials would be those that are hidden from view, such as floor tile under floor tile or carpet, pipe or duct insulation in wall cavities, materials out of reach in high ceiling areas, materials located under or behind finish materials. Building materials known to possibly contain asbestos which were not sampled as part of this survey should be assumed to be asbestos containing until proven otherwise.

This document is an initial pre-renovation asbestos survey based on one site visit that included sampling of select materials. This inspection and sampling occurred in January; the house had no heat, electricity or water service. It is not an asbestos or hazardous material abatement scope of work. This document, associated drawing, lab report and attachments are not intended to be environmental bid specifications for the referenced site.

Material samples were analyzed by an independent outside laboratory; the results of their analyses are presented herein. While we choose an established, reputable and certified lab to perform the sample analysis, Parks does not warrant the accuracy of the laboratory results.

The information contained in this report represents Parks' best efforts to determine the presence of asbestos containing and other hazardous materials at the site given the site conditions. A copy of the MDH asbestos inspector's certification card is in Appendix C.

Parks Environmental Consulting, Inc.



January 25, 2012

Tim Marxhausen
Project Manager
MDH Certified Asbestos Inspector #AI2271

Date

APPENDIX A

ASBESTOS LABORATORY REPORT

SCHNEIDER LABORATORIES GLOBAL

INCORPORATED

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • (FAX) 804-359-1475

Over 25 Years of Excellence in Service and Technology

AIHA/ELLAP 100527, ISO/IEC 17025, NVLAP 101150-0, VELAP 460135, NYELAP/NELAC 11413

LABORATORY ANALYSIS REPORT

Asbestos Identification by EPA Method¹ 600/R-93/116

Using SLI A6

ACCOUNT #: 3556-12-51
CLIENT: St. Croix Environmental, Inc.
ADDRESS: 1094 Golden Oaks Drive
Hudson, WI 54016

DATE COLLECTED: 1/17/2012
DATE RECEIVED: 1/18/2012
DATE ANALYZED: 1/19/2012
DATE REPORTED: 1/20/2012

PROJECT NAME: House
JOB LOCATION: 737 Plum St.
PROJECT NO.: St. Paul, MN
PO NO.:

SampleType: BULK

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
CT-01A	31322088			
Layer 1:	Ceiling Tile White, Fibrous		None Detected	90% CELLULOSE FIBER 10% NON FIBROUS MATERIAL
CT-01B	31322089			
Layer 1:	Ceiling Tile White, Fibrous		None Detected	90% CELLULOSE FIBER 10% NON FIBROUS MATERIAL
CT-01C	31322090			
Layer 1:	Ceiling Tile White, Fibrous		None Detected	90% CELLULOSE FIBER 10% NON FIBROUS MATERIAL
CT-02A	31322091			
Layer 1:	Ceiling Tile Tan, Fibrous		None Detected	90% CELLULOSE FIBER 10% NON FIBROUS MATERIAL
CT-02B	31322092			
Layer 1:	Ceiling Tile Tan, Fibrous		None Detected	90% CELLULOSE FIBER 10% NON FIBROUS MATERIAL

Total Number of Pages in Report: 7

Results relate only to samples as received by the laboratory.

Visit www.slabinc.com for current certifications.

Samples analyzed by the EPA Test Method are subject to the limitations of light microscopy including matrix interference. Gravimetric reduction and correlative analyses are recommended for all non-friable, organically bound materials. This method has a reporting limit of 1% or greater. Visual estimation contains an inherent range of uncertainty. This report must not be reproduced except in full with the approval of the lab, and must not be used to claim NVLAP or other gov't agency endorsement.

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
CTEX-01A	31322093			
Layer 1:	Ceiling Texture White, Granular		None Detected	100% NON FIBROUS MATERIAL
Layer 2:	Drywall White, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL
CTEX-01B	31322094			
Layer 1:	Ceiling Texture White, Granular		None Detected	100% NON FIBROUS MATERIAL
Layer 2:	Drywall White, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL
CTEX-01C	31322095			
Layer 1:	Ceiling Texture White, Granular		None Detected	100% NON FIBROUS MATERIAL
CTEX-02A	31322096			
Layer 1:	Ceiling Texture White, Granular		None Detected	100% NON FIBROUS MATERIAL
Layer 2:	Drywall White, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL
CTEX-02B	31322097			
Layer 1:	Ceiling Texture White, Granular		None Detected	100% NON FIBROUS MATERIAL
Layer 2:	Drywall White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
CTEX-02C	31322098			
Layer 1:	Ceiling Texture White, Granular		None Detected	100% NON FIBROUS MATERIAL
Layer 2:	Drywall White, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL

Total Number of Pages in Report: 7

Results relate only to samples as received by the laboratory.

Visit www.slabin.com for current certifications.

Samples analyzed by the EPA Test Method are subject to the limitations of light microscopy including matrix interference. Gravimetric reduction and correlative analyses are recommended for all non-friable, organically bound materials. This method has a reporting limit of 1% or greater. Visual estimation contains an inherent range of uncertainty. This report must not be reproduced except in full with the approval of the lab, and must not be used to claim NVLAP or other gov't agency endorsement.

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
FT-01A	31322099			
Layer 1:	Floor Tile Olive, Organically Bound		4% CHRYSOTILE	96% NON FIBROUS MATERIAL
Layer 2:	Mastic Yellow, Soft		None Detected	100% NON FIBROUS MATERIAL
FT-01B	31322100			
Layer 1:	Floor Tile Gray, Organically Bound		4% CHRYSOTILE	96% NON FIBROUS MATERIAL
Layer 2:	Mastic Yellow, Soft		None Detected	100% NON FIBROUS MATERIAL
LIN-01A	31322101			
Layer 1:	Linoleum Red, Fibrous		2% CHRYSOTILE	25% CELLULOSE FIBER 20% SYNTHETIC FIBER 53% NON FIBROUS MATERIAL
LIN-01B	31322102			
Layer 1:	Linoleum Red, Fibrous		2% CHRYSOTILE	25% CELLULOSE FIBER 15% SYNTHETIC FIBER 58% NON FIBROUS MATERIAL
LIN-02A	31322103			
Layer 1:	Linoleum Brown, Fibrous		None Detected	40% CELLULOSE FIBER 5% SYNTHETIC FIBER 55% NON FIBROUS MATERIAL
Layer 2:	Mastic Yellow, Soft		None Detected	100% NON FIBROUS MATERIAL
Layer 3:	Floor Tile FT-01 Olive, Organically Bound		5% CHRYSOTILE	95% NON FIBROUS MATERIAL
Layer 4:	Mastic Yellow, Soft		None Detected	100% NON FIBROUS MATERIAL
LIN-02B	31322104			
Layer 1:	Linoleum Brown, Fibrous		None Detected	40% CELLULOSE FIBER 5% SYNTHETIC FIBER 55% NON FIBROUS MATERIAL

Total Number of Pages in Report: 7

Results relate only to samples as received by the laboratory.

Visit www.slabin.com for current certifications.

Samples analyzed by the EPA Test Method are subject to the limitations of light microscopy including matrix interference. Gravimetric reduction and correlative analyses are recommended for all non-friable, organically bound materials. This method has a reporting limit of 1% or greater. Visual estimation contains an inherent range of uncertainty. This report must not be reproduced except in full with the approval of the lab, and must not be used to claim NVLAP or other gov't agency endorsement.

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
Layer 2:	Mastic Yellow, Soft		None Detected	100% NON FIBROUS MATERIAL
Layer 3:	Floor Tile FT-01 Olive, Organically Bound		5% CHRYSOTILE	95% NON FIBROUS MATERIAL
Layer 4:	Mastic Yellow, Soft		None Detected	100% NON FIBROUS MATERIAL
LIN-03A	31322105			
Layer 1:	Linoleum Gray, Fibrous		None Detected	30% CELLULOSE FIBER 10% SYNTHETIC FIBER 60% NON FIBROUS MATERIAL
Layer 2:	Mastic Gold, Soft		None Detected	100% NON FIBROUS MATERIAL
LIN-03B	31322106			
Layer 1:	Linoleum Gray, Fibrous		None Detected	30% CELLULOSE FIBER 10% MINERAL/GLASS WOOL 60% NON FIBROUS MATERIAL
Layer 2:	Mastic Gold, Soft		None Detected	100% NON FIBROUS MATERIAL
LIN-04A	31322107			
Layer 1:	Linoleum Cream, Fibrous		None Detected	40% CELLULOSE FIBER 60% NON FIBROUS MATERIAL
Layer 2:	Mastic Yellow, Soft		None Detected	100% NON FIBROUS MATERIAL
LIN-04B	31322108			
Layer 1:	Linoleum Cream, Fibrous		None Detected	40% CELLULOSE FIBER 60% NON FIBROUS MATERIAL
Layer 2:	Mastic Yellow, Soft		None Detected	100% NON FIBROUS MATERIAL

Total Number of Pages in Report: 7

Results relate only to samples as received by the laboratory.

Visit www.slabinc.com for current certifications.

Samples analyzed by the EPA Test Method are subject to the limitations of light microscopy including matrix interference. Gravimetric reduction and correlative analyses are recommended for all non-friable, organically bound materials. This method has a reporting limit of 1% or greater. Visual estimation contains an inherent range of uncertainty. This report must not be reproduced except in full with the approval of the lab, and must not be used to claim NVLAP or other gov't agency endorsement.

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
LIN-05A	31322109			
Layer 1:	Linoleum Beige, Rubbery		None Detected	12% MINERAL/GLASS WOOL 88% NON FIBROUS MATERIAL
LIN-05B	31322110			
Layer 1:	Linoleum Beige, Rubbery		None Detected	12% MINERAL/GLASS WOOL 88% NON FIBROUS MATERIAL
LIN-06A	31322111			
Layer 1:	Linoleum Brown, Fibrous		None Detected	40% CELLULOSE FIBER 5% MINERAL/GLASS WOOL 55% NON FIBROUS MATERIAL
Layer 2:	Mastic Yellow, Soft		None Detected	100% NON FIBROUS MATERIAL
LIN-06B	31322112			
Layer 1:	Linoleum Brown, Fibrous		None Detected	40% CELLULOSE FIBER 5% MINERAL/GLASS WOOL 55% NON FIBROUS MATERIAL
Layer 2:	Mastic Yellow, Soft		None Detected	100% NON FIBROUS MATERIAL
LIN-07A	31322113			
Layer 1:	Linoleum White, Rubbery		None Detected	10% MINERAL/GLASS WOOL 90% NON FIBROUS MATERIAL
LIN-07B	31322114			
Layer 1:	Linoleum White, Rubbery		None Detected	10% MINERAL/GLASS WOOL 90% NON FIBROUS MATERIAL
PL-01A	31322115			
Layer 1:	Plaster Gray, Granular		None Detected	2% ANIMAL HAIR 98% NON FIBROUS MATERIAL
Layer 2:	Skim Coat White, Granular		None Detected	100% NON FIBROUS MATERIAL

Total Number of Pages in Report: 7

Results relate only to samples as received by the laboratory.

Visit www.slabinc.com for current certifications.

Samples analyzed by the EPA Test Method are subject to the limitations of light microscopy including matrix interference. Gravimetric reduction and correlative analyses are recommended for all non-friable, organically bound materials. This method has a reporting limit of 1% or greater. Visual estimation contains an inherent range of uncertainty. This report must not be reproduced except in full with the approval of the lab, and must not be used to claim NVLAP or other gov't agency endorsement.

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
PL-01B	31322116			
Layer 1:	Plaster Gray, Granular		None Detected	2% ANIMAL HAIR 98% NON FIBROUS MATERIAL
Layer 2:	Skim Coat White, Granular		None Detected	100% NON FIBROUS MATERIAL
PL-01C	31322117			
Layer 1:	Plaster Gray, Granular		None Detected	2% ANIMAL HAIR 98% NON FIBROUS MATERIAL
Layer 2:	Skim Coat White, Granular		None Detected	100% NON FIBROUS MATERIAL
SRJC-01A	31322118			
Layer 1:	Sheetrock White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
Layer 2:	Joint Compound White, Granular		None Detected	100% NON FIBROUS MATERIAL
SRJC-01B	31322119			
Layer 1:	Plaster Gray, Granular		None Detected	2% ANIMAL HAIR 98% NON FIBROUS MATERIAL
Layer 2:	Skim Coat White, Granular No Sheet Rock Found.		None Detected	100% NON FIBROUS MATERIAL
SRJC-01C	31322120			
Layer 1:	Sheetrock White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
Layer 2:	Skim Coat White, Granular		None Detected	100% NON FIBROUS MATERIAL
SRJC-01D	31322121			
Layer 1:	Sheetrock White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL

Total Number of Pages in Report: 7

Results relate only to samples as received by the laboratory.

Visit www.slabinc.com for current certifications.

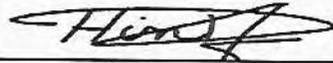
Samples analyzed by the EPA Test Method are subject to the limitations of light microscopy including matrix interference. Gravimetric reduction and correlative analyses are recommended for all non-friable, organically bound materials. This method has a reporting limit of 1% or greater. Visual estimation contains an inherent range of uncertainty. This report must not be reproduced except in full with the approval of the lab, and must not be used to claim NVLAP or other gov't agency endorsement.

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
Layer 2:	Joint Compound White, Granular		None Detected	100% NON FIBROUS MATERIAL
SRJC-01E	31322122			
Layer 1:	Sheetrock White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
Layer 2:	Joint Compound White, Granular		None Detected	100% NON FIBROUS MATERIAL
SRJC-01F	31322123			
Layer 1:	Sheetrock White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
Layer 2:	Joint Compound White, Granular		None Detected	100% NON FIBROUS MATERIAL
TS-01	31322124			
Layer 1:	Transite Brown/Gray, Hard		15% CHRYSOTILE	85% NON FIBROUS MATERIAL
WG-01A	31322125			
Layer 1:	Window Glazing Gray, Granular		None Detected	100% NON FIBROUS MATERIAL

Analyst:


 SAMANI ABDELFADEL

Reviewed By:


 Hind Eldanaf, Microscopy Supervisor

Total Number of Pages in Report: 7

Results relate only to samples as received by the laboratory.

Visit www.slabinc.com for current certifications.

Samples analyzed by the EPA Test Method are subject to the limitations of light microscopy including matrix interference. Gravimetric reduction and correlative analyses are recommended for all non-friable, organically bound materials. This method has a reporting limit of 1% or greater. Visual estimation contains an inherent range of uncertainty. This report must not be reproduced except in full with the approval of the lab, and must not be used to claim NVLAP or other gov't agency endorsement.

3550-12-51

ASBESTOS BULK SAMPLE REQUEST FORM

ST. CROIX ENVIRONMENTAL
 Golden Oaks Drive, Hudson, WI 55
LABORATORY: SCHNEIDER LABORATORIES,
 INC.

Telephone: (15) 381-5701

2512 West Cary Street,
 Richmond, VA 23220

800-785-5227

ST. CROIX ACCT #:

Sample Date: 01-17-12

CLIENT NAME & ADDRESS

City of St. Paul

Turnaround Time: 3 Day

Analysis: PLM Standard

Special Instructions: Fax results to St. Croix and Parks Environmental

Sampled by: Tim Marxhausen (MDH AI-2271)

Project No.

| Sample Number |
|---------------|---------------|---------------|---------------|---------------|
| CT-01A | CTEX-02C | LIN-04B | SRJC-01A | |
| CT-01B | FT-01A | LIN-05A | SRJC-01B | |
| CT-01C | FT-01B | LIN-05B | SRJC-01C | |
| CT-02A | LIN-01A | LIN-06A | SRJC-01D | |
| CT-02B | LIN-01B | LIN-06B | SRJC-01E | |
| CTEX-01A | LIN-02A | LIN-07A | SRJC-01F | |
| CTEX-01B | LIN-02B | LIN-07B | TS-01 | |
| CTEX-01C | LIN-03A | PL-01A | WG-01A | |
| CTEX-02A | LIN-03B | PL-01B | | |
| CTEX-02B | LIN-04A | PL-01C | | |

WorkOrderKey

 V: \ 862 \ 862916

RECEIVED
 JAN 18 2012
 9% FADIGRAZI

Sampled & Relinquished by: Tim Marxhausen
 Date & Time: 1-17-12

Received by:
 Date & Time

OPS 34855

Sealed Condition Yes/No

APPENDIX B

SITE SKETCH WITH SAMPLE LOCATIONS

PARKS

Environmental Consulting, Inc.
4749 Chicago Avenue S.
Minneapolis, MN 55407

Project No. 9360

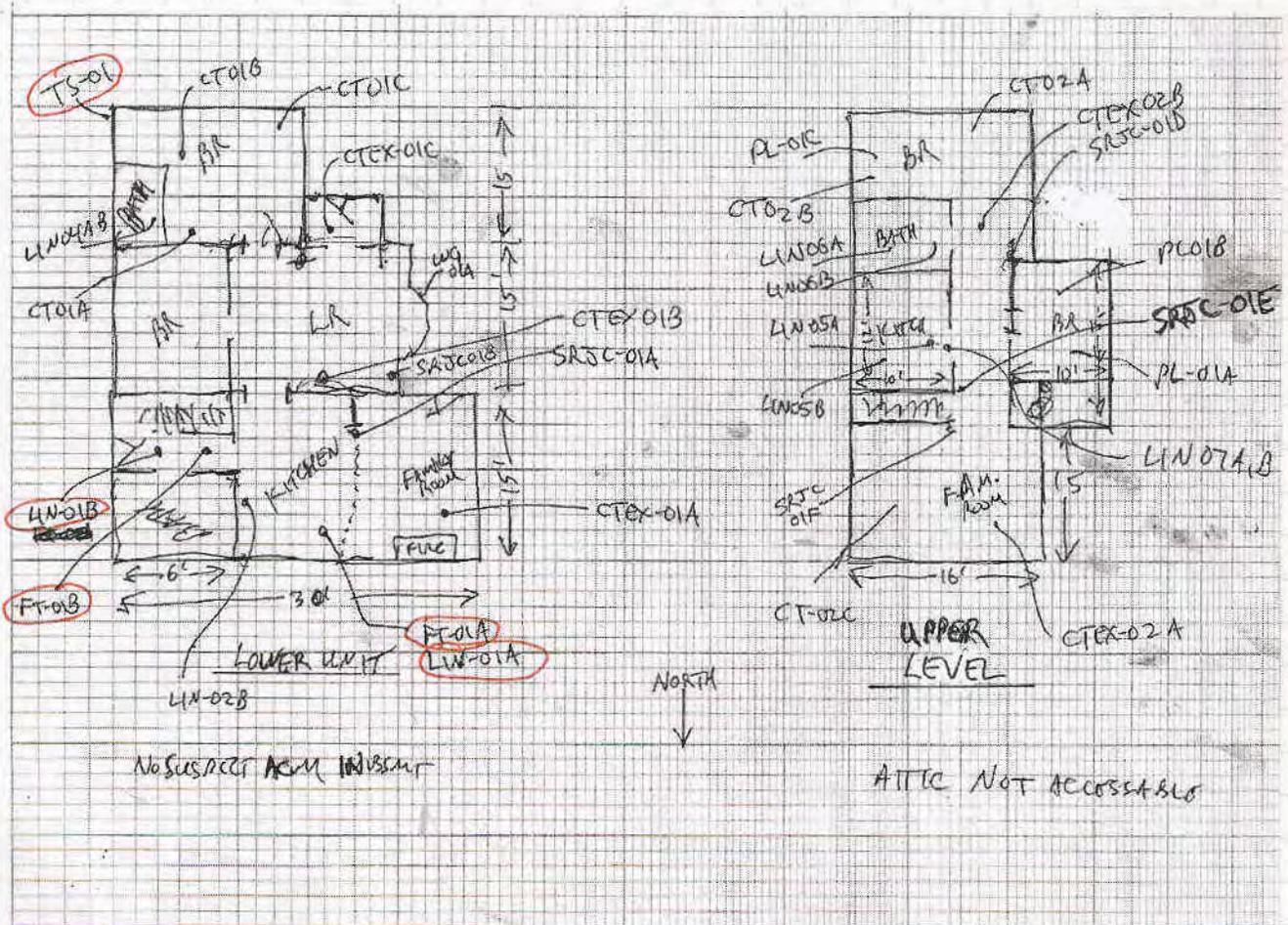
Page 1 of 1

Project Name SCE / DPE1

By TIM M.

Date 1-17-12

Subject ASBESTOS SURVEY - 737 PLUM ST.



APPENDIX C

INSPECTOR CERTIFICATION CARD



**ASBESTOS
INSPECTOR**

Certified by:
State of Minnesota
Department of Health

Expires: 04/21/2012

Timothy J Marxhausen
4805 Elliot Ave
Minneapolis, MN 55417

Linda S. Bremer
Director, Env. Health Div.

No. A12271 Issued: 05/04/2011

Midwest
Environmental
Consulting, L.L.C.



January 25, 2012

Kevin Miller
St. Croix Environmental, Inc.
1094 Golden Oaks Drive
Hudson WI 54016

RE: HUD Lead-Based Paint Inspection and Risk Assessment at the Duplex Family Residential Property, 737 Plum Street, St. Paul, Minnesota (St. Croix Environmental Phone: 715-381-5701)

Dear Kevin Miller:

At the request of St. Croix Environmental, Midwest Environmental Consulting, L.L.C. (MEC) performed a HUD lead-based paint inspection and risk assessment of the duplex residential property located at 737 Plum Street, St. Paul, Minnesota on January 21, 2012.

Andrew Myers, MEC, Minnesota-licensed lead risk assessor (MN LR #578) 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. No dust wipe samples or bare soil samples were collected as a part of this evaluation at the request of St. Croix Environmental.

The inspection was conducted following the Housing and Urban Development (HUD) "Guidelines for the Evaluation and Control of Lead-Based Paint in Housing," using Chapter 5 and 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." No lead dust wipes or soil samples were collected as a part of this evaluation at the request of St. Croix Environmental, Inc. and Parks Environmental Consulting, Inc.

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 duplex residential property located at 737 Plum Street, St. Paul, Minnesota is a two story wood framed structure built on a concrete basement and foundation constructed in approximately 1900. The walls and ceilings are primarily drywall. The property has undergone renovations since it's construction. There are original double hung wood windows and vinyl inserts in the original jamb openings. The floors are a combination of hardwood, vinyl and ceramic tile. The exterior siding is transite with some wood siding. There is metal cladding on most trim, fascia & soffits. There is a detached wood framed & sided garage with wood soffit, fascia & trim at the rear of the property with alley access.

Bare soil was not observed on the day of the site evaluation due to snow cover. The house is currently vacant.

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 306 X-Ray Fluorescence Spectrum Analyzer (Serial # 22554).

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 $1.0 \text{ mg}/\text{cm}^2$ 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: South, faces Plum Street
 Side B: West, faces residential properties
 Side C: North, faces alley
 Side D: East, faces residential properties

Specific building components determined to have a lead concentration above the action level of (1.0 mg/cm²) are listed below:

LOCATION	COMPONENT
Unit 1, Living Room	Painted wood door components
Unit 1, Living Room	Painted wood baseboards
Unit 1, Living Room	Painted wood window components
Bathroom	Bath tub
Unit 1, Kitchen	Painted wood door components (door to basement)
Unit 1, Kitchen	Painted wood window sash
Unit 1, Kitchen	Painted drywall walls
Basement Stairway	Painted wood baseboards
Exterior	Painted wood column
Exterior	Painted wood soffit
Exterior	Metal soffits, fascia & trim (depth index indicates lead beneath the metal surfaces)
Exterior	Metal window components (depth index indicates lead beneath the metal surfaces)

Exterior	Transite siding
Exterior	Painted wood window components
Stairway to 2 nd Floor	Painted wood baseboards

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 collecting information about the property through a visual inspection of the dwelling and reviewing paint test data. No lead dust wipe samples or bare soil samples were collected during this risk assessment. It will be assumed that lead dust hazards are above the defined action levels. It is also assumed that if bare soil is present that the bare soil levels are above the defined action levels.

- The date of construction of the residence is approximately the early 1900's.
- The property is a duplex residential structure.
- Windows are primarily double hung wood windows and some with vinyl inserts in original jambs.
- The exterior siding is mainly transite with some wood siding and metal cladding on soffits, etc.
- Interior walls & ceilings are primarily drywall.
- There is a detached wood framed & sided garage with alley access.
- Bare soil was not observed due to snow cover.
- 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 of the structure is mainly in intact condition with some components in poor or fair condition. The exterior is in generally poor 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/cm² action level.

Dust wipe and bare soil samples were not collected from the residence as a part of this evaluation at the request of St. Croix Environmental and will be assumed to be above defined MDH/HUD lead hazard levels. Water and sodium rhodizonate swabs were also not collected as part of this project.

RECOMMENDATIONS

Lead-based paint or lead hazards were found during the inspection and risk assessment of the property including original vintage painted interior & exterior wood windows, painted wood baseboards, painted wood interior doors & door components, bath tub, drywall walls, under exterior metal cladding and on transite siding.

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 substrate and re-coating with lead free coatings.

Unit 1, Living Room:

Painted wood doors & door components: In poor condition.

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

Painted wood baseboards: In poor condition.

- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Enclose baseboards 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 substrate 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.

Unit 1, Bathroom:

Bath tub: 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 bath tub using Lead Safe Work Practices and replace with new lead free products.
- Option 3: Enclose tub under a lead free tub surround and include into an Operation & Maintenance Plan with ongoing monitoring.

Unit 1, Kitchen:

Painted wood door components (door to basement): In poor condition.

- Option 1: Remove door components using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Remove coatings to bare substrate 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 drywall walls: In intact condition.

- Option 1: Remove wall systems 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.

Stairway to Basement:

Painted wood baseboards: In poor condition.

- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Enclose baseboards 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 substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Exterior:

Painted wood column: 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.
- Option 3: Remove column using Lead Safe Work Practices and replace with new lead free products.

Painted wood exposed soffits: 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 such as aluminum window cladding and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 3: Remove coatings to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Metal soffits & trim, (depth index indicates lead beneath the metal surfaces): 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 components to substrate using Lead Safe Work Practices and replace with new lead free products.
- Option 3: Remove coatings under cladding to bare substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Metal window casing: In poor condition.

- Option 1: Remove and replace damaged metal cladding using Lead Safe Work Practices making sure that seams and seals are maintained in a sealed condition using elastomeric caulking and include into an Operation & Maintenance Plan with ongoing monitoring.
- Option 2: Remove metal cladding using Lead Safe Work Practices and replace with new lead free products.
- Option 3: Remove cladding & coatings to bare substrates using Lead Safe Work Practices and re-coat with lead free coatings.

Transite Siding: In poor condition.

- Option 1: Remove siding using Lead & Asbestos Safe Work Practices and replace with new lead & asbestos free products.
- Option 2: Enclose under a dust tight barrier such as low maintenance siding ensuring that all seams are maintained in a sealed condition 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.

Stairway to Unit 2:

Painted wood baseboards: In intact condition.

- Option 1: Remove baseboards using Lead Safe Work Practices and replace with new lead free components.
- Option 2: Enclose baseboards 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 substrate using Lead Safe Work Practices and re-coat with lead free coatings.

Lead Dust Hazards

No lead dust wipes were collected as a part of this evaluation. It is assumed that lead dust is a hazard throughout the property and that dust levels within the complex above the Minnesota Department of Health, the Housing and Urban Development (HUD) and the Environmental Protection Agency (EPA) lead dust levels of 40 micrograms per square foot ($\mu\text{g}/\text{ft}^2$) for a floor surface, 250 $\mu\text{g}/\text{ft}^2$ for a window sill (stool) surface, and 400 $\mu\text{g}/\text{ft}^2$ for a window well (trough) surface. All window systems and floors will be required to be cleaned with a good household cleaner and wet methods.

Lead in Bare Soil

Bare soil was not observed on the date of the site evaluation due to snow cover. No bare soil samples were collected as a part of this evaluation. If bare soil is present, it is assumed to be above the Minnesota Department of Health defined action level of 100 parts per million.

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

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.

If exterior surfaces are to be remediated and because lead-coatings are present, covering the ground and providing adequate protection to soil is very important if bare soil is present.

Dust wipe samples were not collected lead dust levels are assumed to be above the action levels on floor and window surfaces as defined by MDH, HUD and EPA. 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 the enclosure option is chosen, the owner must conduct a visual evaluation at (6) months and annually thereafter. If the encapsulation option is selected, the owner must conduct a visual evaluation at (1) month, then at (6) months and annually thereafter.

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/cm² 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,

A handwritten signature in black ink, appearing to read 'AM', with a long horizontal flourish extending to the right.

Andrew Myers
Environmental Project Manager

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

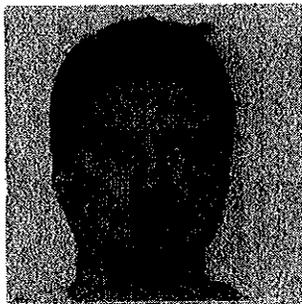
Certified Lead Firm

License No: LF551
Expires 03/28/2012

This certificate is nontransferable.



Linda B. Bruemmer, Director
Division of Environmental Health



**LEAD
Risk Assessor**

Licensed by:
State of Minnesota
Department of Health
License No. LR578
Expires 08/25/2012

Andrew J Myers
210 2nd St N
New Prague, MN 56071

Jennifer A. Benson
Director, Env. Health Div.

Andrew J. 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

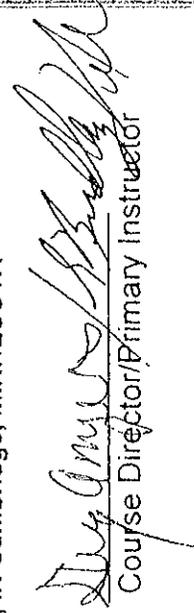
Phone: 763.691.0111

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

IDENTIFICATION NUMBER: MEC/IRAR 0847

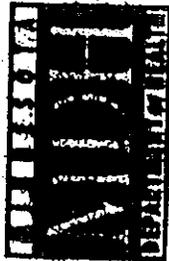
Expiration Date: August 25, 2012

MDH Permit Number: RAR-006


Course Director/Primary Instructor

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





I-0031

Lead Inspector Independent Examination

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

This certifies that

Andrew Myers

has successfully passed the required independent examination for:

Lead Inspector

March 22, 2001
Morris, Minnesota

This certificate is nontransferable.

Jan K. Malcom
Commissioner

Patricia A. Bloomgren, Director
Division of Environmental Health

Andrew J. Myers

has completed the Minnesota-Approved Lead Training course and

Initial Lead Inspector Training
March 12-14, 2001

given by

Midwest Environmental Consulting, LLC
145 - 2nd Avenue SE, Cambridge, MN 55008

SUCCESSFULLY PASSED THE EXAMINATION ON MARCH 14, 2001, IN MINNESOTA

IDENTIFICATION NUMBER: **DE-CA-11-0012**
Expiration Date: March 14, 2002
SDNY Permit No: **LJ-003**

Andrew J. Myers
Course Director



RA-0239

Lead Risk Assessor Independent Examination

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

This certifies that

Andrew Myers

has successfully passed the required independent examination for:

Lead Risk Assessor

June 26, 2001

Minneapolis, Minnesota

This certificate is nontransferable.

Jan K. Malcom
Commissioner

Patricia A. Bloomgren, Director
Division of Environmental Health

Andrew J. Myers

has completed the Minnesota-Approved Lead Training course entitled:

Lead-Based Paint Risk Assessor Training

June 26-26, 2001

given by

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

• SUCCESSFULLY PASSED THE EXAMINATION ON JUNE 26, 2001, IN MINNEAPOLIS, MINNESOTA

IDENTIFICATION NUMBER: MESC/LPA 0111

Expiration Date: June 26, 2002

LEAD PAINT RISK ASSESSOR

Andrew J. Myers
Course Director

APPENDIX B

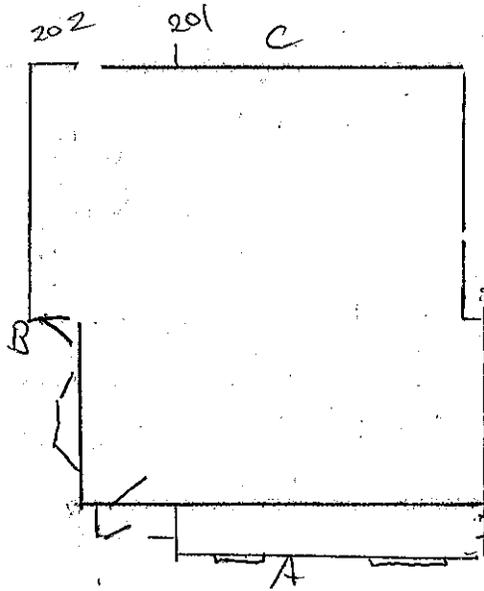
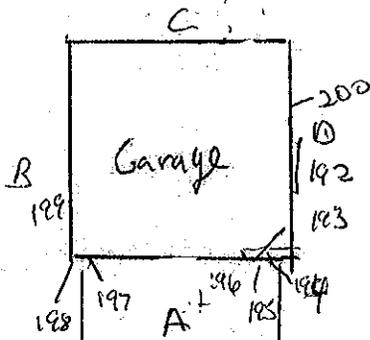
**XRF TEST RESULTS
SAMPLING MAPS
DATA PAGES
CALIBRATION DATA**

737 plum st.

Residential

SITE PLAN
737 PLUM STREET
ST. PAUL, MN
SKETCH NOT TO SCALE
DRAWN BY: ANDREW MYERS
MIDWEST ENVIRONMENTAL
CONSULTING
DATE: 01/21/12

ALLEY



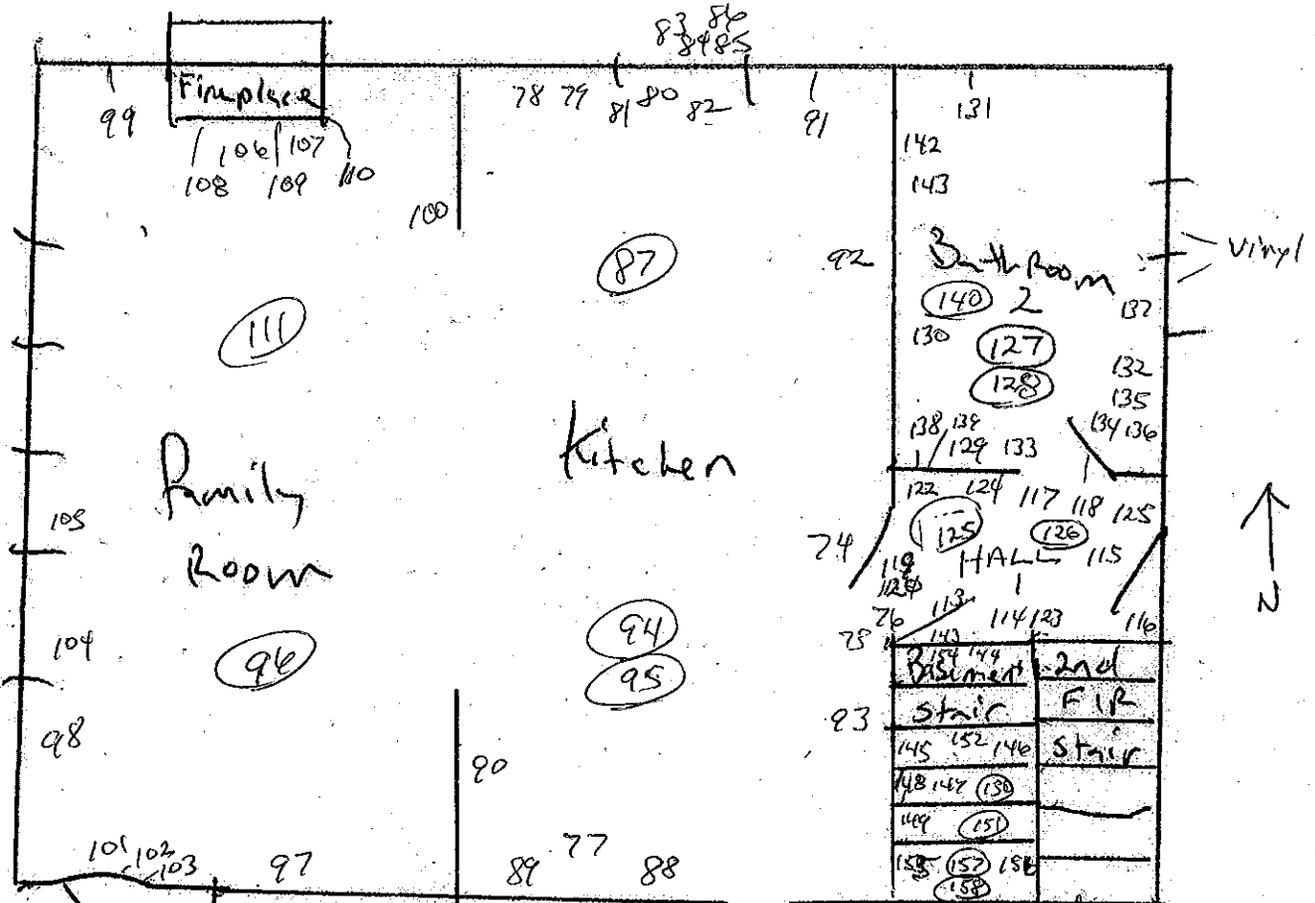
Residential

Residential

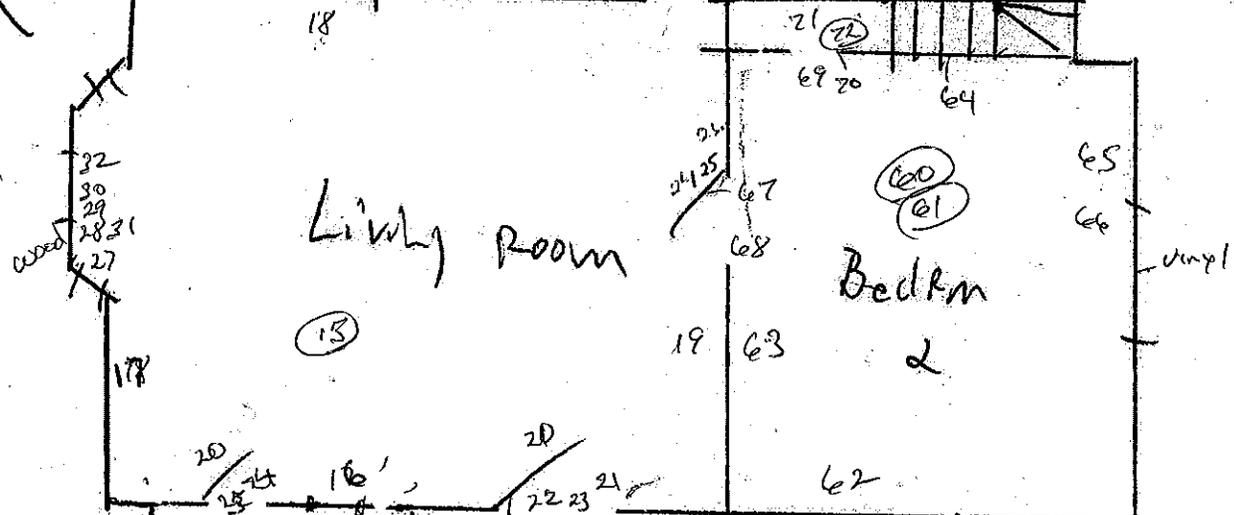
plum st

Residential

C



B

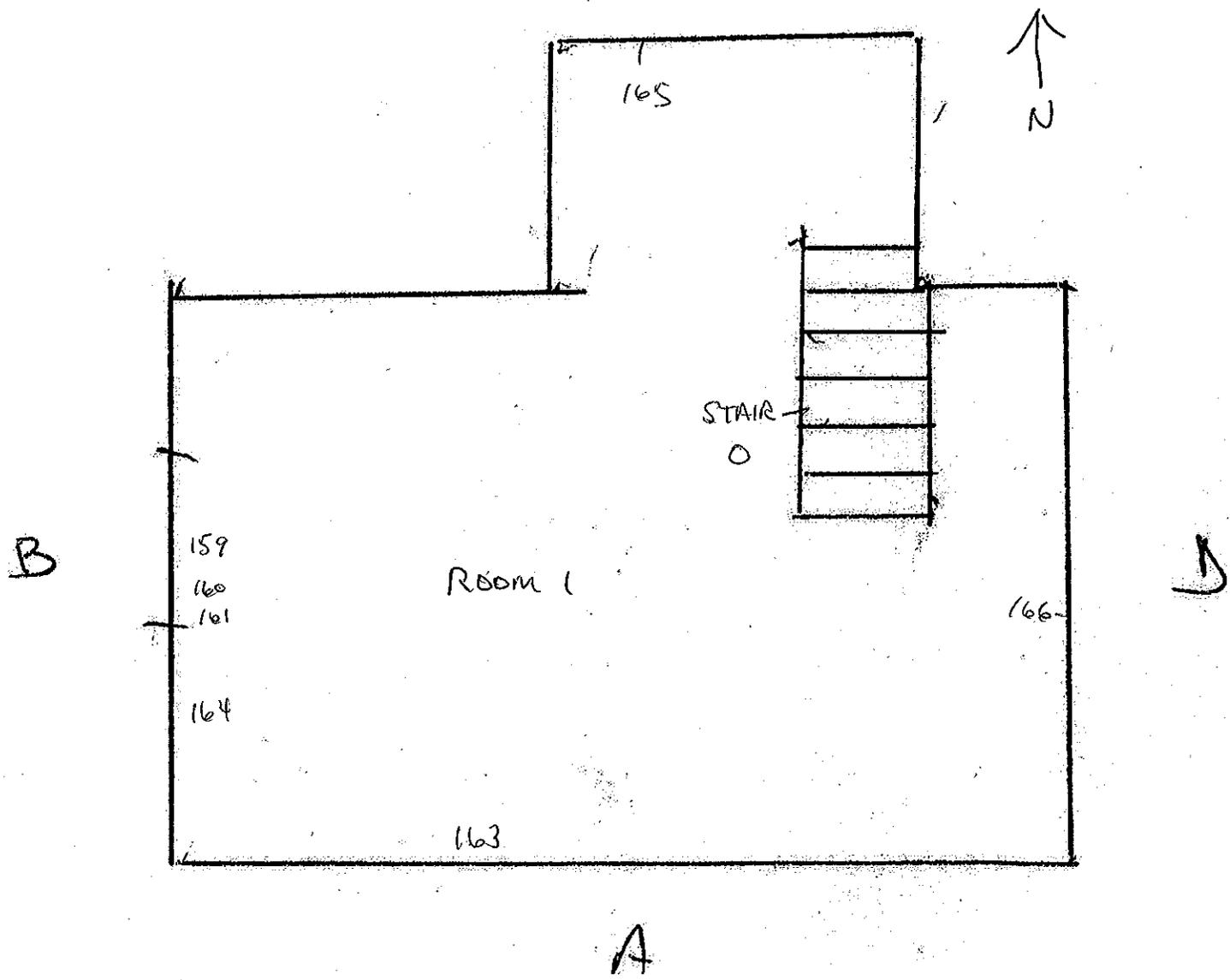


FIRST FLOOR
 737 PLUM STREET
 ST. PAUL, MN

SKETCH NOT TO SCALE
 DRAWN BY: ANDREW MYERS
 MIDWEST ENVIRONMENTAL
 CONSULTING
 DATE: 01/21/12

A

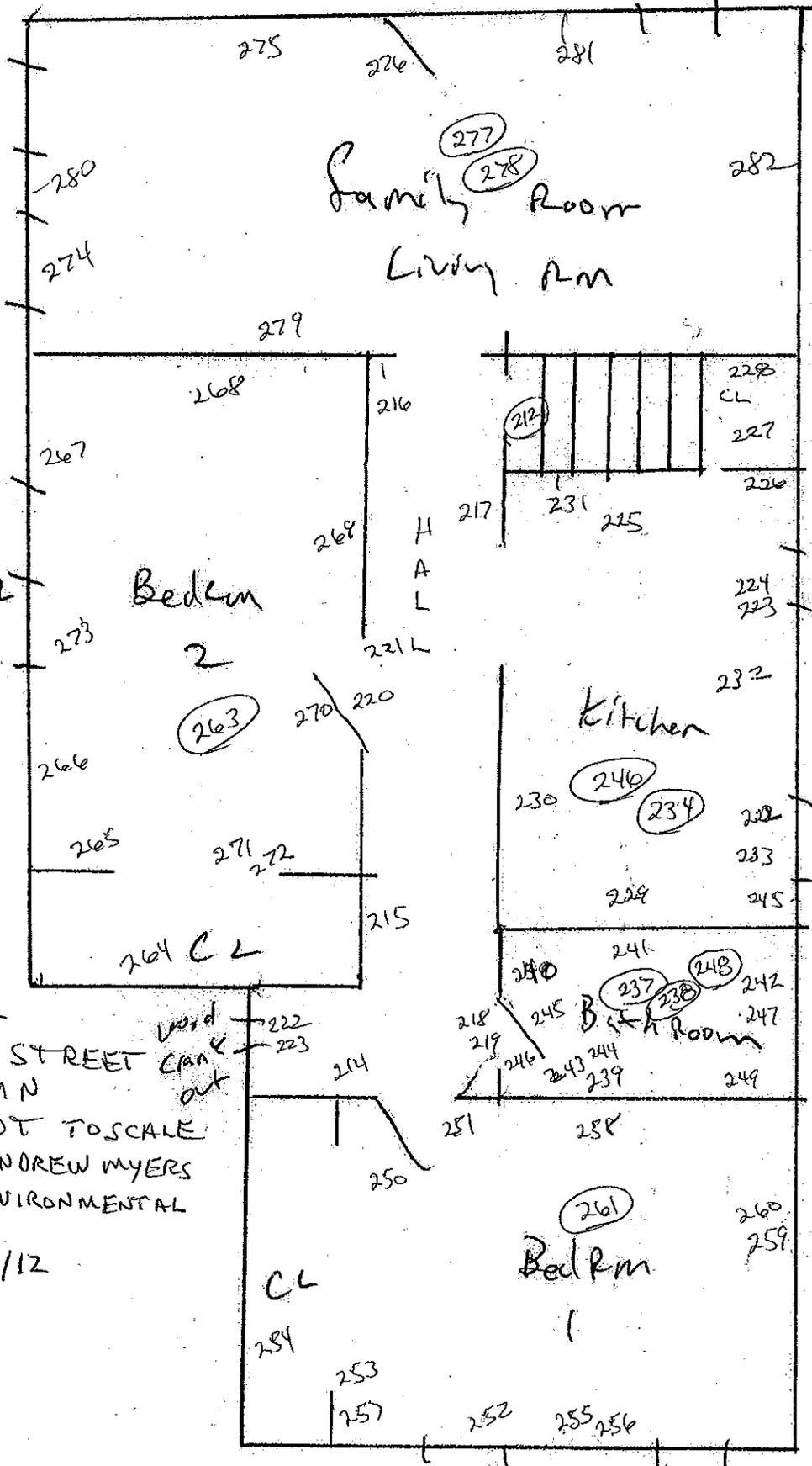
BASEMENT LEVEL
737 PLUM STREET
ST. PAUL, MN
SKETCH NOT TO SCALE
DRAWN BY: ANDREW MYERS
MIDWEST ENVIRONMENTAL CONSULTING
DATE: 01/21/12



UNIT 2 Deck

Wood
Crack
out

Wood
Crack
out



SECOND FLOOR

732 PLUM STREET

ST. PAUL, MN

SKETCH NOT TO SCALE

DRAWN BY: ANDREW MYERS

MIDWEST ENVIRONMENTAL
CONSULTING

DATE: 01/21/12

Wood
Crack
out

vinyl

vinyl

St. Croix Environmental
 737 Plum Street
 St. Paul MN

Address	Unit	Room	Area	Material	Condition	Color	Notes	Area	Height	Volume	Weight	Value
737 Plum Street	1	Bedroom 1	CLOSET dr	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.45	1.73 AM
737 Plum Street	1	Bedroom 1	CLOSET wall	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.16	1 AM
737 Plum Street	1	Bedroom 1	WALL	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.16	1 AM
737 Plum Street	1	Bedroom 1	WALL	DRYWALL	FAIR	WHITE	Neg	< LOD	< LOD	< LOD	2.29	1 AM
737 Plum Street	1	Bedroom 1	WALL	DRYWALL	FAIR	WHITE	Neg	< LOD	< LOD	< LOD	2.44	1 AM
737 Plum Street	1	Bedroom 1	WALL	DRYWALL	FAIR	WHITE	Neg	< LOD	< LOD	< LOD	2.29	1 AM
737 Plum Street	1	Bedroom 1	WALL	DRYWALL	FAIR	WHITE	Neg	< LOD	< LOD	< LOD	2.15	1 AM
737 Plum Street	1	Bedroom 1	CEILING	tile	FAIR	WHITE	Neg	< LOD	< LOD	< LOD	2.31	1.36 AM
737 Plum Street	1	BATHROOM 1	CEILING	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.3	1 AM
737 Plum Street	1	BATHROOM 1	DOOR	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.17	1 AM
737 Plum Street	1	BATHROOM 1	DOOR casing	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.59	1 AM
737 Plum Street	1	BATHROOM 1	CABINET	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.02	1 AM
737 Plum Street	1	BATHROOM 1	CABINET	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.02	1 AM
737 Plum Street	1	BATHROOM 1	WINDOW casing	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.16	1 AM
737 Plum Street	1	BATHROOM 1	WINDOW sash	WOOD	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	1.01	1.84 AM
737 Plum Street	1	BATHROOM 1	WINDOW sash	WOOD	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.17	1.73 AM
737 Plum Street	1	BATHROOM 1	tab	METAL	INTACT	BLUP	POS	31.1	7.6	31.1	1.74	1.99 AM
737 Plum Street	1	BATHROOM 1	FLOOR	vinyl	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	3.17	1 AM
737 Plum Street	1	BATHROOM 1	BASEBOARD	vinyl	INTACT	grey	Neg	< LOD	< LOD	< LOD	2.6	1 AM
737 Plum Street	1	BATHROOM 1	WALL	DRYWALL	FAIR	WHITE	Neg	< LOD	< LOD	< LOD	2.15	1 AM
737 Plum Street	1	BATHROOM 1	WALL	DRYWALL	FAIR	WHITE	Neg	< LOD	< LOD	< LOD	2.29	1 AM
737 Plum Street	1	BATHROOM 1	WALL	DRYWALL	FAIR	WHITE	Neg	< LOD	< LOD	< LOD	2.16	1 AM
737 Plum Street	1	BATHROOM 1	WALL	DRYWALL	FAIR	WHITE	Neg	< LOD	< LOD	< LOD	2.45	1 AM
737 Plum Street	1	BEDROOM 2	CEILING	DRYWALL	INTACT	WHITE	Null	< LOD	< LOD	< LOD	0.29	10 AM
737 Plum Street	1	BEDROOM 2	CEILING	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	1.01	1 AM
737 Plum Street	1	BEDROOM 2	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.3	1.38 AM
737 Plum Street	1	BEDROOM 2	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.59	1 AM
737 Plum Street	1	BEDROOM 2	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.15	1 AM
737 Plum Street	1	BEDROOM 2	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.16	1 AM
737 Plum Street	1	BEDROOM 2	WALL	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.16	1 AM
737 Plum Street	1	BEDROOM 2	WINDOW casing	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.31	1 AM
737 Plum Street	1	BEDROOM 2	DOOR	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.01	1.44 AM
737 Plum Street	1	BEDROOM 2	DOOR casing	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.16	6.74 AM
737 Plum Street	1	BEDROOM 2	CLOSET dr	WOOD	POOR	varnish	Neg	< LOD	< LOD	< LOD	2.16	1.25 AM
737 Plum Street	1	BEDROOM 2	CLOSET dr casing	WOOD	POOR	varnish	Neg	< LOD	< LOD	< LOD	2.16	1 AM
737 Plum Street	1	BEDROOM 2	CLOSET dr wall	WOOD	POOR	varnish	Neg	< LOD	< LOD	< LOD	2.15	1 AM
737 Plum Street	1	BEDROOM 2	CLOSET flr	WOOD	POOR	grey	Neg	< LOD	< LOD	< LOD	2.16	1.85 AM
737 Plum Street	1	KITCHEN	DOOR	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.31	1 AM
737 Plum Street	1	KITCHEN	DOOR casing	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	3.16	1 AM
737 Plum Street	1	KITCHEN	DOOR jamb	WOOD	POOR	BROWN	POS	7.7	< LOD	7.7	1.87	10 AM

737 Plum Street	77	1/21/2012 13:28	1	KITCHEN	unit 1	A	booth	WOOD	POOR	BROWN	Neg	< LOD	< LOD	< LOD	2.02	6.13	AM
737 Plum Street	78	1/21/2012 13:29	1	KITCHEN	unit 1	C	CABINET	WOOD	POOR	BROWN	Neg	< LOD	< LOD	< LOD	2.17	1	AM
737 Plum Street	79	1/21/2012 13:29	1	KITCHEN	unit 1	C	CABINET	WOOD	POOR	BROWN	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	80	1/21/2012 13:30	1	KITCHEN	unit 1	C	WINDOW sill	WOOD	POOR	BROWN	Neg	< LOD	< LOD	< LOD	3.03	7.39	AM
737 Plum Street	81	1/21/2012 13:31	1	KITCHEN	unit 1	C	WINDOW sill	WOOD	POOR	BROWN	Neg	< LOD	< LOD	< LOD	1.87	3.99	AM
737 Plum Street	82	1/21/2012 13:31	1	KITCHEN	unit 1	C	WINDOW sill	WOOD	POOR	BROWN	Neg	< LOD	< LOD	< LOD	2.6	5.74	AM
737 Plum Street	83	1/21/2012 13:32	1	KITCHEN	unit 1	C	WINDOW sash	WOOD	POOR	BROWN	Null	< LOD	< LOD	< LOD	2.3	7.43	AM
737 Plum Street	84	1/21/2012 13:32	1	KITCHEN	unit 1	C	WINDOW sash	WOOD	POOR	BROWN	Null	0.8	0.8	< LOD	4.9	10	AM
737 Plum Street	85	1/21/2012 13:33	1	KITCHEN	unit 1	C	WINDOW sash	WOOD	POOR	BROWN	Null	0.7	0.7	< LOD	13.36	9.32	AM
737 Plum Street	86	1/21/2012 13:34	1	KITCHEN	unit 1	C	WINDOW sash	WOOD	POOR	BROWN	POS	1.4	1.4	< LOD	7.78	7.74	AM
737 Plum Street	87	1/21/2012 13:35	1	KITCHEN	unit 1		FLOOR	vinyl	POOR	BROWN	Neg	< LOD	< LOD	< LOD	4.47	2.13	AM
737 Plum Street	88	1/21/2012 13:36	1	KITCHEN	unit 1	A	WALL	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	1.01	5.31	AM
737 Plum Street	89	1/21/2012 13:36	1	KITCHEN	unit 1	A	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.89	3.34	AM
737 Plum Street	90	1/21/2012 13:37	1	KITCHEN	unit 1	B	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.16	1.1	AM
737 Plum Street	91	1/21/2012 13:39	1	KITCHEN	unit 1	C	WALL	DRYWALL	INTACT	WHITE	POS	1.3	0.9	< LOD	23.98	10	AM
737 Plum Street	92	1/21/2012 13:39	1	KITCHEN	unit 1	D	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	5.9	6.22	AM
737 Plum Street	93	1/21/2012 13:41	1	KITCHEN	unit 1	D	WALL	DRYWALL	INTACT	WHITE	POS	1.2	1.2	< LOD	14.4	5.3	AM
737 Plum Street	94	1/21/2012 13:41	1	KITCHEN	unit 1		CEILING	DRYWALL	INTACT	WHITE	Null	< LOD	< LOD	< LOD	0.72	2.14	AM
737 Plum Street	95	1/21/2012 13:41	1	KITCHEN	unit 1		CEILING	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.44	1.42	AM
737 Plum Street	96	1/21/2012 13:42	1	FAMILY RM	unit 1		CEILING	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	3.17	1	AM
737 Plum Street	97	1/21/2012 13:43	1	FAMILY RM	unit 1	A	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.45	1	AM
737 Plum Street	98	1/21/2012 13:43	1	FAMILY RM	unit 1	B	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	3.31	3.12	AM
737 Plum Street	99	1/21/2012 13:44	1	FAMILY RM	unit 1	C	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.3	1	AM
737 Plum Street	100	1/21/2012 13:44	1	FAMILY RM	unit 1	D	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.59	1	AM
737 Plum Street	101	1/21/2012 13:45	1	FAMILY RM	unit 1	A	DOOR	METAL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.02	1	AM
737 Plum Street	102	1/21/2012 13:46	1	FAMILY RM	unit 1	A	DOOR JAMB	WOOD	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	103	1/21/2012 13:46	1	FAMILY RM	unit 1	A	DOOR CASING	WOOD	POOR	VARNISH	Neg	< LOD	< LOD	< LOD	2.02	1	AM
737 Plum Street	104	1/21/2012 13:47	1	FAMILY RM	unit 1	B	BASEBOARD	WOOD	POOR	VARNISH	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	105	1/21/2012 13:47	1	FAMILY RM	unit 1	B	WINDOW CASING	WOOD	POOR	VARNISH	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	106	1/21/2012 13:48	1	FAMILY RM	unit 1	B	WINDOW SASH	WOOD	POOR	VARNISH	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	107	1/21/2012 13:48	1	FAMILY RM	unit 1	C	FIREPLACE	WOOD	POOR	VARNISH	Neg	< LOD	< LOD	< LOD	2.31	1.69	AM
737 Plum Street	108	1/21/2012 13:49	1	FAMILY RM	unit 1	C	FIREPLACE	WOOD	POOR	VARNISH	Null	< LOD	< LOD	< LOD	0.29	1	AM
737 Plum Street	109	1/21/2012 13:49	1	FAMILY RM	unit 1	C	FIREPLACE	WOOD	POOR	VARNISH	Neg	< LOD	< LOD	< LOD	1.15	1	AM
737 Plum Street	110	1/21/2012 13:49	1	FAMILY RM	unit 1	C	FIREPLACE	BRICK	POOR	RED	Neg	< LOD	< LOD	< LOD	2.58	1	AM
737 Plum Street	111	1/21/2012 13:50	1	FAMILY RM	unit 1		FLOOR	VINYL	POOR	BROWN	Neg	< LOD	< LOD	< LOD	4.18	2.9	AM
737 Plum Street	112	1/21/2012 13:51	1	HALL	unit 1		FLOOR	VINYL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	4.31	6.03	AM
737 Plum Street	113	1/21/2012 13:52	1	HALL	unit 1	B	DOOR	VINYL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.16	2.51	AM
737 Plum Street	114	1/21/2012 13:53	1	HALL	unit 1	B	DOOR JAMB	VINYL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.16	2.15	AM
737 Plum Street	115	1/21/2012 13:53	1	HALL	unit 1	D	DOOR	METAL	POOR	GREY	Neg	< LOD	< LOD	< LOD	2.74	1	AM
737 Plum Street	116	1/21/2012 13:54	1	HALL	unit 1	D	DOOR CASING	METAL	POOR	VARNISH	Neg	< LOD	< LOD	< LOD	3.17	1	AM

St. Croix Environmental
 737 Plum Street
 St. Paul MN

737 Plum Street	117	1/21/2012 13:54	1	HALL	unit 1	C	DOOR CASING	METAL	POOR	VARNISH	Neg	< LOD	< LOD	< LOD	3.03	1	AM
737 Plum Street	118	1/21/2012 13:55	1	HALL	unit 1	C	DOOR	METAL	POOR	VARNISH	Neg	< LOD	< LOD	< LOD	2.89	1	AM
737 Plum Street	119	1/21/2012 13:55	1	HALL	unit 1	B	DOOR JAMB	METAL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.02	1.45	AM
737 Plum Street	120	1/21/2012 13:55	1	HALL	unit 1	B	DOOR JAMB	METAL	POOR	WHITE	Null	< LOD	< LOD	< LOD	1.01	7.26	AM
737 Plum Street	121	1/21/2012 13:56	1	HALL	unit 1	B	DOOR JAMB	METAL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.3	5.75	AM
737 Plum Street	122	1/21/2012 13:56	1	HALL	unit 1	B	WALL	DRYWALL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.17	3.17	AM
737 Plum Street	123	1/21/2012 13:56	1	HALL	unit 1	A	WALL	DRYWALL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.17	1	AM
737 Plum Street	124	1/21/2012 13:57	1	HALL	unit 1	C	WALL	DRYWALL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.44	1	AM
737 Plum Street	125	1/21/2012 13:57	1	HALL	unit 1	D	WALL	DRYWALL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.3	1	AM
737 Plum Street	126	1/21/2012 13:58	1	HALL	unit 1		CEILING	DRYWALL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.16	6.88	AM
737 Plum Street	127	1/21/2012 13:58	1	BATHROOM 2	unit 1		CEILING	DRYWALL	INTACT	WHITE	Null	< LOD	< LOD	< LOD	0.29	1	AM
737 Plum Street	128	1/21/2012 13:59	1	BATHROOM 2	unit 1		CEILING	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	1.3	1	AM
737 Plum Street	129	1/21/2012 13:59	1	BATHROOM 2	unit 1	A	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	3.15	1	AM
737 Plum Street	130	1/21/2012 13:59	1	BATHROOM 2	unit 1	B	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.15	1	AM
737 Plum Street	131	1/21/2012 14:00	1	BATHROOM 2	unit 1	C	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.3	1	AM
737 Plum Street	132	1/21/2012 14:00	1	BATHROOM 2	unit 1	D	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.88	1	AM
737 Plum Street	133	1/21/2012 14:01	1	BATHROOM 2	unit 1	A	DOOR casing	DRYWALL	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.01	1	AM
737 Plum Street	134	1/21/2012 14:02	1	BATHROOM 2	unit 1	A	DOOR	DRYWALL	INTACT	varnish	Neg	< LOD	< LOD	< LOD	3.16	2.46	AM
737 Plum Street	135	1/21/2012 14:02	1	BATHROOM 2	unit 1	D	CABINET	DRYWALL	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.15	1.05	AM
737 Plum Street	136	1/21/2012 14:03	1	BATHROOM 2	unit 1	D	CABINET	DRYWALL	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.44	6.53	AM
737 Plum Street	137	1/21/2012 14:03	1	BATHROOM 2	unit 1	D	WINDOW casing	DRYWALL	INTACT	varnish	Neg	< LOD	< LOD	< LOD	3.18	1	AM
737 Plum Street	138	1/21/2012 14:04	1	BATHROOM 2	unit 1	A	BASEBOARD	vinyl	INTACT	BEIGE	Null	< LOD	< LOD	< LOD	0.71	1.47	AM
737 Plum Street	139	1/21/2012 14:04	1	BATHROOM 2	unit 1	A	BASEBOARD	vinyl	INTACT	BEIGE	Neg	< LOD	< LOD	< LOD	2.45	1	AM
737 Plum Street	140	1/21/2012 14:04	1	BATHROOM 2	unit 1	B	FLOOR	tile	INTACT	BEIGE	Neg	< LOD	< LOD	< LOD	2.31	1	AM
737 Plum Street	141	1/21/2012 14:05	1	BATHROOM 2	unit 1	B	WALL	tile	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.17	2.96	AM
737 Plum Street	142	1/21/2012 14:05	1	BATHROOM 2	unit 1	B	tub	tile	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.45	1	AM
737 Plum Street	143	1/21/2012 14:11	0	STAIR	unit 1	C	DOOR	WOOD	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.15	2.15	AM
737 Plum Street	144	1/21/2012 14:12	0	STAIR	unit 1	C	DOOR jamb	WOOD	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.15	2.35	AM
737 Plum Street	145	1/21/2012 14:12	0	STAIR	unit 1	B	BASEBOARD	WOOD	POOR	WHITE	Neg	0.8	0.8	0.8	4.17	3.65	AM
737 Plum Street	146	1/21/2012 14:14	0	STAIR	unit 1	D	BASEBOARD	WOOD	POOR	WHITE	POS	1	1	1	24.89	3.97	AM
737 Plum Street	147	1/21/2012 14:15	0	STAIR	unit 1	A	shelf	WOOD	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.45	5.78	AM
737 Plum Street	148	1/21/2012 14:16	0	STAIR	unit 1	B	hand rail	WOOD	POOR	WHITE	Neg	< LOD	< LOD	< LOD	3.16	1	AM
737 Plum Street	149	1/21/2012 14:16	0	STAIR	unit 1	B	support	WOOD	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.15	1	AM
737 Plum Street	150	1/21/2012 14:17	0	STAIR	unit 1		TREAD	WOOD	POOR	WHITE	Neg	0.6	0.6	< LOD	2.31	1.4	AM
737 Plum Street	151	1/21/2012 14:17	0	STAIR	unit 1		TREAD	WOOD	POOR	WHITE	Neg	0.9	0.9	0.9	9.21	1.65	AM
737 Plum Street	152	1/21/2012 14:18	0	STAIR	unit 1		TREAD	WOOD	POOR	WHITE	Neg	0.4	0.4	< LOD	2.16	1.34	AM
737 Plum Street	153	1/21/2012 14:18	0	STAIR	unit 1	C	RISER	WOOD	POOR	WHITE	Neg	0.5	0.5	< LOD	2.16	3.01	AM
737 Plum Street	154	1/21/2012 14:19	0	STAIR	unit 1	A	WALL	DRYWALL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.16	6.96	AM
737 Plum Street	155	1/21/2012 14:19	0	STAIR	unit 1	B	WALL	DRYWALL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.16	1.67	AM
737 Plum Street	156	1/21/2012 14:19	0	STAIR	unit 1	D	WALL	DRYWALL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.16	1	AM

737 Plum Street	157	1/21/2012 14:20	0	STAIR	unit 1	CEILING	DRYWALL	POOR	WHITE	Null	< LOD	< LOD	< LOD	0.72	1.41	AM
737 Plum Street	158	1/21/2012 14:20	0	STAIR	unit 1	CEILING	DRYWALL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	1.43	2.1	AM
737 Plum Street	159	1/21/2012 14:21	0	Room 1	unit 1 B	WINDOW	WOOD	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.16	1.39	AM
737 Plum Street	160	1/21/2012 14:21	0	Room 1	unit 1 B	WINDOW	WOOD	POOR	WHITE	Neg	< LOD	< LOD	< LOD	1.59	3.02	AM
737 Plum Street	161	1/21/2012 14:22	0	Room 1	unit 1 B	WINDOW	WOOD	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	162	1/21/2012 14:22	0	Room 1	unit 1	FLOOR	CONCRETE	POOR	grey	Neg	< LOD	< LOD	< LOD	2.72	1	AM
737 Plum Street	163	1/21/2012 14:23	0	Room 1	unit 1 A	WALL	CONCRETE	POOR	grey	Neg	< LOD	< LOD	< LOD	3.3	1.89	AM
737 Plum Street	164	1/21/2012 14:23	0	Room 1	unit 1 B	WALL	CONCRETE	POOR	grey	Neg	< LOD	< LOD	< LOD	3.17	1	AM
737 Plum Street	165	1/21/2012 14:24	0	Room 1	unit 1 C	WALL	CONCRETE	POOR	grey	Neg	< LOD	< LOD	< LOD	3.16	1.08	AM
737 Plum Street	166	1/21/2012 14:24	0	Room 1	unit 1 D	WALL	CONCRETE	POOR	grey	Neg	< LOD	< LOD	< LOD	3.61	1	AM
737 Plum Street	167	1/21/2012 14:29		OUTSIDE	A	DOOR	METAL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	168	1/21/2012 14:29		OUTSIDE	A	DOOR jamb	WOOD	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	169	1/21/2012 14:30		OUTSIDE	A	CORNER	WOOD	POOR	WHITE	POS	1.7	1.7	1.9	3.31	2.82	AM
737 Plum Street	170	1/21/2012 14:30		OUTSIDE	A	soffit	WOOD	POOR	WHITE	POS	1.6	5	14.6	1.72	2.65	AM
737 Plum Street	171	1/21/2012 14:30		OUTSIDE	A	TRIM	METAL	INTACT	WHITE	POS	11.7	< LOD	11.7	1.58	10	AM
737 Plum Street	172	1/21/2012 14:31		OUTSIDE	A	soffit	METAL	INTACT	WHITE	POS	1.7	< LOD	1.7	5.34	10	AM
737 Plum Street	173	1/21/2012 14:32		OUTSIDE	A	WINDOW casing	METAL	POOR	WHITE	POS	22.4	< LOD	22.4	1.43	10	AM
737 Plum Street	174	1/21/2012 14:33		OUTSIDE	A	WINDOW sill	METAL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.88	1	AM
737 Plum Street	175	1/21/2012 14:33		OUTSIDE	D	DOOR	METAL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.02	1	AM
737 Plum Street	176	1/21/2012 14:34		OUTSIDE	D	DOOR jamb	WOOD	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	177	1/21/2012 14:34		OUTSIDE	C	DOOR jamb	WOOD	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	178	1/21/2012 14:35		OUTSIDE	C	DOOR	METAL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.01	1.68	AM
737 Plum Street	179	1/21/2012 14:35		OUTSIDE	C	soffit	METAL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	1.44	1.47	AM
737 Plum Street	180	1/21/2012 14:36		OUTSIDE	C	deck	METAL	POOR	BROWN	Neg	< LOD	< LOD	< LOD	2.17	1	AM
737 Plum Street	181	1/21/2012 14:36		OUTSIDE	C	deck	METAL	POOR	BROWN	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	182	1/21/2012 14:37		OUTSIDE	C	siding	WOOD	POOR	BROWN	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	183	1/21/2012 14:37		OUTSIDE	B	siding	slate	POOR	BROWN	POS	6.1	< LOD	6.1	3.37	1.7	AM
737 Plum Street	184	1/21/2012 14:38		OUTSIDE	A	siding	slate	POOR	BROWN	POS	5.5	< LOD	5.5	2.29	1	AM
737 Plum Street	185	1/21/2012 14:38		OUTSIDE	D	siding	slate	POOR	BROWN	POS	5.8	< LOD	5.8	2.31	1	AM
737 Plum Street	186	1/21/2012 14:39		OUTSIDE	D	WINDOW sill	METAL	POOR	WHITE	POS	2.8	0.7	2.8	3.59	10	AM
737 Plum Street	187	1/21/2012 14:39		OUTSIDE	D	WINDOW sash	WOOD	POOR	WHITE	Neg	0.27	0.27	< LOD	2.01	1.47	AM
737 Plum Street	188	1/21/2012 14:40		OUTSIDE	D	WINDOW sash	WOOD	POOR	WHITE	Neg	0.9	0.9	1	7.75	1.33	AM
737 Plum Street	189	1/21/2012 14:41		OUTSIDE	D	WINDOW sash	WOOD	POOR	WHITE	Null	< LOD	< LOD	< LOD	2.73	10	AM
737 Plum Street	190	1/21/2012 14:41		OUTSIDE	D	WINDOW sash	WOOD	POOR	WHITE	POS	1.7	0.5	1.7	4.44	10	AM
737 Plum Street	191	1/21/2012 14:42		OUTSIDE	B	WINDOW sill	WOOD	POOR	WHITE	POS	1.6	1.6	1.4	3.89	4.14	AM
737 Plum Street	192	1/21/2012 14:42		GARAGE	D	WINDOW sill	WOOD	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	193	1/21/2012 14:43		GARAGE	D	soffit	WOOD	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.16	3.57	AM
737 Plum Street	194	1/21/2012 14:43		GARAGE	A	DOOR	METAL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	195	1/21/2012 14:44		GARAGE	A	DOOR casing	WOOD	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.15	1	AM
737 Plum Street	196	1/21/2012 14:44		GARAGE	A	DOOR jamb	WOOD	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.16	1	AM

737 Plum Street	197	1/21/2012 14:44	GARAGE		A	DOOR casing	WOOD	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.59	1	AM
737 Plum Street	198	1/21/2012 14:45	GARAGE		A	siding	WOOD	POOR	BROWN	Neg	< LOD	< LOD	< LOD	3.16	1	AM
737 Plum Street	199	1/21/2012 14:45	GARAGE		B	siding	WOOD	POOR	BROWN	Neg	< LOD	< LOD	< LOD	2.02	1	AM
737 Plum Street	200	1/21/2012 14:45	GARAGE		D	siding	WOOD	POOR	BROWN	Neg	< LOD	< LOD	< LOD	3.16	1	AM
737 Plum Street	201	1/21/2012 14:46	OUTSIDE		C	siding	siding	POOR	BROWN	POS	3-8	< LOD	3-8	1.86	1	AM
737 Plum Street	202	1/21/2012 14:47	OUTSIDE		C	COLUMN	WOOD	POOR	BROWN	Neg	< LOD	< LOD	< LOD	2.17	1	AM
737 Plum Street	203	1/21/2012 14:53	STAIR	2	unit 2	DOOR	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	3.15	1	AM
737 Plum Street	204	1/21/2012 14:53	STAIR	2	unit 2	DOOR jamb	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	205	1/21/2012 14:54	STAIR	2	unit 2	handrail	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	206	1/21/2012 14:55	STAIR	2	unit 2	shelf support	WOOD	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.02	1	AM
737 Plum Street	207	1/21/2012 14:55	STAIR	2	unit 2	BASEBOARD	WOOD	INTACT	WHITE	POS	14-1	10-1	14-1	1.58	1.35	AM
737 Plum Street	208	1/21/2012 14:55	STAIR	2	unit 2	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.45	1	AM
737 Plum Street	209	1/21/2012 14:56	STAIR	2	unit 2	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.89	1	AM
737 Plum Street	210	1/21/2012 14:56	STAIR	2	unit 2	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.29	1.57	AM
737 Plum Street	211	1/21/2012 14:56	STAIR	2	unit 2	WALL	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.31	1	AM
737 Plum Street	212	1/21/2012 14:57	STAIR	2	unit 2	CEILING	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.17	1	AM
737 Plum Street	213	1/21/2012 14:58	HALL	2	unit 2	CEILING	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.46	1	AM
737 Plum Street	214	1/21/2012 14:58	HALL	2	unit 2	WALL	DRYWALL	INTACT	YELLOW	Neg	< LOD	< LOD	< LOD	2.59	1	AM
737 Plum Street	215	1/21/2012 14:58	HALL	2	unit 2	WALL	DRYWALL	INTACT	YELLOW	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	216	1/21/2012 14:59	HALL	2	unit 2	WALL	DRYWALL	INTACT	YELLOW	Neg	< LOD	< LOD	< LOD	3.16	1.27	AM
737 Plum Street	217	1/21/2012 14:59	HALL	2	unit 2	WALL	DRYWALL	INTACT	YELLOW	Neg	< LOD	< LOD	< LOD	3.16	1	AM
737 Plum Street	218	1/21/2012 15:00	HALL	2	unit 2	DOOR	DRYWALL	INTACT	varnish	Null	< LOD	< LOD	< LOD	0.29	10	AM
737 Plum Street	219	1/21/2012 15:00	HALL	2	unit 2	DOOR	DRYWALL	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.17	1.09	AM
737 Plum Street	220	1/21/2012 15:00	HALL	2	unit 2	DOOR	DRYWALL	INTACT	varnish	Neg	< LOD	< LOD	< LOD	1.87	1	AM
737 Plum Street	221	1/21/2012 15:01	HALL	2	unit 2	DOOR casing	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.02	1	AM
737 Plum Street	222	1/21/2012 15:01	HALL	2	unit 2	WINDOW casing	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.17	1	AM
737 Plum Street	223	1/21/2012 15:02	HALL	2	unit 2	WINDOW casing	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.75	1	AM
737 Plum Street	224	1/21/2012 15:02	KITCHEN	2	unit 2	WINDOW casing	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.15	1	AM
737 Plum Street	225	1/21/2012 15:02	KITCHEN	2	unit 2	CABINET	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.02	1.15	AM
737 Plum Street	226	1/21/2012 15:03	KITCHEN	2	unit 2	CLOSET dr casing	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.31	1	AM
737 Plum Street	227	1/21/2012 15:04	KITCHEN	2	unit 2	Closet Shelf Support	WOOD	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.15	1	AM
737 Plum Street	228	1/21/2012 15:04	KITCHEN	2	unit 2	CLOSET wall	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.3	1	AM
737 Plum Street	229	1/21/2012 15:05	KITCHEN	2	unit 2	WALL	DRYWALL	INTACT	YELLOW	Neg	< LOD	< LOD	< LOD	3.31	3.21	AM
737 Plum Street	230	1/21/2012 15:06	KITCHEN	2	unit 2	WALL	DRYWALL	INTACT	YELLOW	Neg	< LOD	< LOD	< LOD	2.44	1.86	AM
737 Plum Street	231	1/21/2012 15:06	KITCHEN	2	unit 2	WALL	DRYWALL	INTACT	YELLOW	Neg	< LOD	< LOD	< LOD	2.3	1	AM
737 Plum Street	232	1/21/2012 15:06	KITCHEN	2	unit 2	WALL	DRYWALL	INTACT	YELLOW	Neg	< LOD	< LOD	< LOD	2.44	1	AM
737 Plum Street	233	1/21/2012 15:07	KITCHEN	2	unit 2	WINDOW	vinyl	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.31	1	AM
737 Plum Street	234	1/21/2012 15:07	KITCHEN	2	unit 2	FLOOR	vinyl	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.31	1	AM
737 Plum Street	235	1/21/2012 15:08	KITCHEN	2	unit 2	BASEBOARD	vinyl	INTACT	BROWN	Neg	< LOD	< LOD	< LOD	2.29	1	AM
737 Plum Street	236	1/21/2012 15:08	KITCHEN	2	unit 2	CEILING	DRYWALL	INTACT	WHITE	Neg	< LOD	< LOD	< LOD	2.58	1	AM

St. Croix Environmental
 737 Plum Street
 St. Paul MN

737 Plum Street	237	1/21/2012 15:09	2	BATHROOM	unit 2	CEILING	DRYWALL	POOR	WHITE	Null	< LOD	< LOD	< LOD	0.15	10	AM
737 Plum Street	238	1/21/2012 15:09	2	BATHROOM	unit 2	CEILING	DRYWALL	POOR	WHITE	Neg	< LOD	< LOD	< LOD	1.72	1	AM
737 Plum Street	239	1/21/2012 15:10	2	BATHROOM	unit 2	A WALL	DRYWALL	INTACT	YELLOW	Neg	< LOD	< LOD	< LOD	2.59	1	AM
737 Plum Street	240	1/21/2012 15:10	2	BATHROOM	unit 2	B WALL	DRYWALL	INTACT	YELLOW	Neg	< LOD	< LOD	< LOD	2.45	3.33	AM
737 Plum Street	241	1/21/2012 15:11	2	BATHROOM	unit 2	C WALL	DRYWALL	INTACT	YELLOW	Neg	< LOD	< LOD	< LOD	2.59	1	AM
737 Plum Street	242	1/21/2012 15:11	2	BATHROOM	unit 2	D WALL	DRYWALL	INTACT	YELLOW	Neg	< LOD	< LOD	< LOD	3.17	1	AM
737 Plum Street	243	1/21/2012 15:12	2	BATHROOM	unit 2	A CABINET	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.17	1	AM
737 Plum Street	244	1/21/2012 15:12	2	BATHROOM	unit 2	A CABINET	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.02	1	AM
737 Plum Street	245	1/21/2012 15:12	2	BATHROOM	unit 2	B DOOR	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.01	1	AM
737 Plum Street	246	1/21/2012 15:13	2	BATHROOM	unit 2	B DOOR	WOOD	INTACT	varnish	Neg	< LOD	< LOD	< LOD	2.15	3.99	AM
737 Plum Street	247	1/21/2012 15:13	2	BATHROOM	unit 2	D tub	METAL	FAIR	TAN	Neg	< LOD	< LOD	< LOD	2.89	1	AM
737 Plum Street	248	1/21/2012 15:14	2	BATHROOM	unit 2	FLOOR	vinyl	FAIR	TAN	Neg	< LOD	< LOD	< LOD	3.31	1	AM
737 Plum Street	249	1/21/2012 15:14	2	BATHROOM	unit 2	D BASEBOARD	vinyl	FAIR	TAN	Neg	< LOD	< LOD	< LOD	2.31	1	AM
737 Plum Street	250	1/21/2012 15:15	2	BEDROOM 1	unit 2	C DOOR	WOOD	FAIR	varnish	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	251	1/21/2012 15:16	2	BEDROOM 1	unit 2	C DOOR casing	WOOD	FAIR	varnish	Neg	< LOD	< LOD	< LOD	2.17	1	AM
737 Plum Street	252	1/21/2012 15:16	2	BEDROOM 1	unit 2	A WINDOW casing	WOOD	FAIR	varnish	Neg	< LOD	< LOD	< LOD	2.31	1	AM
737 Plum Street	253	1/21/2012 15:17	2	BEDROOM 1	unit 2	B CLOSET dr casing	WOOD	FAIR	varnish	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	254	1/21/2012 15:18	2	BEDROOM 1	unit 2	B CLOSET wall	WOOD	FAIR	varnish	Neg	< LOD	< LOD	< LOD	2.31	1	AM
737 Plum Street	255	1/21/2012 15:18	2	BEDROOM 1	unit 2	A WALL	DRYWALL	FAIR	YELLOW	Null	< LOD	< LOD	< LOD	1	1	AM
737 Plum Street	256	1/21/2012 15:18	2	BEDROOM 1	unit 2	A WALL	DRYWALL	FAIR	YELLOW	Neg	< LOD	< LOD	< LOD	2.72	1	AM
737 Plum Street	257	1/21/2012 15:19	2	BEDROOM 1	unit 2	B WALL	DRYWALL	FAIR	YELLOW	Neg	< LOD	< LOD	< LOD	2.3	1.28	AM
737 Plum Street	258	1/21/2012 15:19	2	BEDROOM 1	unit 2	C WALL	DRYWALL	FAIR	YELLOW	Neg	< LOD	< LOD	< LOD	2.59	1	AM
737 Plum Street	259	1/21/2012 15:19	2	BEDROOM 1	unit 2	D WALL	DRYWALL	FAIR	YELLOW	Null	< LOD	< LOD	< LOD	0.72	1.14	AM
737 Plum Street	260	1/21/2012 15:20	2	BEDROOM 1	unit 2	D WALL	DRYWALL	FAIR	YELLOW	Neg	< LOD	< LOD	< LOD	3.31	1	AM
737 Plum Street	261	1/21/2012 15:21	2	BEDROOM 1	unit 2	CEILING	Press Fiber	FAIR	WHITE	Null	< LOD	< LOD	< LOD	0.87	1	AM
737 Plum Street	262	1/21/2012 15:21	2	BEDROOM 1	unit 2	CEILING	Press Fiber	FAIR	WHITE	Neg	< LOD	< LOD	< LOD	2.16	2.38	AM
737 Plum Street	263	1/21/2012 15:22	2	BEDROOM 2	unit 2	CEILING	PLASTER	POOR	WHITE	Neg	< LOD	< LOD	< LOD	2.46	1	AM
737 Plum Street	264	1/21/2012 15:23	2	BEDROOM 2	unit 2	A CLOSET wall	PLASTER	FAIR	YELLOW	Neg	< LOD	< LOD	< LOD	2.58	1	AM
737 Plum Street	265	1/21/2012 15:23	2	BEDROOM 2	unit 2	A WALL	PLASTER	FAIR	YELLOW	Neg	< LOD	< LOD	< LOD	3.02	1	AM
737 Plum Street	266	1/21/2012 15:23	2	BEDROOM 2	unit 2	B WALL	PLASTER	FAIR	YELLOW	Neg	< LOD	< LOD	< LOD	1.15	1	AM
737 Plum Street	267	1/21/2012 15:24	2	BEDROOM 2	unit 2	C WALL	PLASTER	FAIR	YELLOW	Neg	< LOD	< LOD	< LOD	2.16	1	AM
737 Plum Street	268	1/21/2012 15:24	2	BEDROOM 2	unit 2	D WALL	PLASTER	FAIR	YELLOW	Neg	< LOD	< LOD	< LOD	3.02	1	AM
737 Plum Street	269	1/21/2012 15:25	2	BEDROOM 2	unit 2	D DOOR	WOOD	FAIR	varnish	Neg	< LOD	< LOD	< LOD	2.3	1	AM
737 Plum Street	270	1/21/2012 15:25	2	BEDROOM 2	unit 2	D DOOR	WOOD	FAIR	varnish	Neg	< LOD	< LOD	< LOD	2.01	1	AM
737 Plum Street	271	1/21/2012 15:26	2	BEDROOM 2	unit 2	A CLOSET dr	WOOD	FAIR	varnish	Neg	< LOD	< LOD	< LOD	1.87	1	AM
737 Plum Street	272	1/21/2012 15:26	2	BEDROOM 2	unit 2	A CLOSET dr casing	WOOD	FAIR	varnish	Neg	< LOD	< LOD	< LOD	2.15	1	AM
737 Plum Street	273	1/21/2012 15:27	2	BEDROOM 2	unit 2	B WINDOW	WOOD	FAIR	varnish	Neg	< LOD	< LOD	< LOD	2.17	1	AM
737 Plum Street	274	1/21/2012 15:28	2	LIVING ROOM	unit 2	B WINDOW	WOOD	FAIR	varnish	Neg	< LOD	< LOD	< LOD	2.15	1	AM
737 Plum Street	275	1/21/2012 15:28	2	LIVING ROOM	unit 2	C FIREPLACE	WOOD	FAIR	varnish	Neg	< LOD	< LOD	< LOD	3.31	1	AM
737 Plum Street	276	1/21/2012 15:29	2	LIVING ROOM	unit 2	C DOOR	METAL	FAIR	WHITE	Neg	< LOD	< LOD	< LOD	3.17	1	AM

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/cm² as determined with L-shell and K-shell X-ray data.
- PbL(mg/cm²):** 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/cm² on the K-shell X-ray data spectrum.
- PbC:** The combined lead concentration in mg/cm² 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**.

03/15/12 ACTIVATED CHARCOAL RADON TEST #6102521

Radon Test Result: 2.8 ±0.2 pCi/L

Test Started 03/07/12 at 11:00 am

Test Ended 03/11/12 at 2:00 pm

Closed house conditions maintained during test.

Location Basement



**CITY OF ST PAUL HRA
737 PLUM
SAINT PAUL, MN 55102**

INTERPRETING YOUR TEST RESULT

The US EPA action level for indoor radon is 4.0 pCi/L. The EPA recommendation for results in this range (2.0 to 3.9 pCi/L) is to conduct further tests to determine the true annual average, ideally with a long-term test kit. If the result remains between 2 and 4 there is little short-term risk, but you should consider fixing your home. Additionally, if you make any structural changes or start to use a lower level of the building more frequently, you should test again.

You may be able to obtain additional information about radon related subjects by calling your **state radon officer at 800-798-9050**. Or call the "Radon Fix-It Line" at 800-644-6999 Monday thru Friday between NOON and 8 pm EST

This test result reflects the amount of radon measured in this sample AFTER it arrived at our laboratory. All analysis computations are automatically adjusted to reflect the length of test, the amount of moisture in the sample, time from the end of test, and the amount of radiation measured. If ALL the test instructions were carefully followed, then it is reasonable to assume this is an accurate assessment of the average level of the radon this sample was exposed to during the time indicated on the test packet.

READ THIS FIRST

This result has been rounded to one-tenth (0.1) of a pCi/L (picoCurie per liter), the most common method of reporting radon in air.

NEXT...PLEASE...READ

everything under the heading

INTERPRETING YOUR TEST RESULT

Your health risk

The primary health risk from long-term exposure to radon is lung cancer. The risk of developing a lung cancer from radon exposure depends both on how much radon is present and how long you are exposed to radon. The higher the radon level or the longer the time of exposure, even if the levels are relatively low, the greater the risk. Exposures up to 4 pCi/L may present some risk of contracting lung cancer to more sensitive occupants, especially children. Recently the US Congress set as a goal the lowering of radon levels in buildings to equal the levels of outside air.

What is a picoCurie

For those interested in the numbers, a picoCurie is 0.000,000,000,001 (one-trillionth) of a Curie, an international measurement unit of radioactivity. One pCi/L means that in one liter of air there will be 2.2 radioactive disintegrations each minute. For example, at 4 pCi/L there will be approximately 12,672 radioactive disintegrations in one liter of air, during a 24-hour period.

Conducting Follow-up Measurements

USEPA protocol describes two general types of radon measurements: short-term tests conducted from 48 hours up to 90 days, and long-term tests that last from 90 to 365 days. Your first test (initial/screening) should be a short-term 'worst-case' screening to see if there is a potential for high exposure to radon. Screening tests should be conducted under closed-building conditions, in the lowest lived-in area in the house, because the highest concentrations of radon will usually be found in a room closest to the underlying soil. Tests made under these conditions are less likely to miss a house with a potential for high concentrations. On the other hand, if the results of worst-case screening tests are very low, there is a high probability that the average annual concentrations in the house are also low.

* Your state has designated a radon officer to assist citizens with questions on radon. Most offer free information on radon and radon reduction techniques, and most keep a list of qualified radon testing and mitigation businesses. Your radon officer can also provide the phone number of your regional USEPA office.

Conducting Follow-up Measurements

The higher your initial (screening) tests, the sooner you should conduct follow-up measurements. The EPA states that you should retest the same location that was tested initially. **For additional or follow-up testing,** make sure at least one test is conducted in the **lowest lived-in level** of the home. Also choose regularly used rooms, such as family rooms, dens, playrooms, or bedrooms. A bedroom on the lower level may be a good choice, because people generally spend the most time in their bedrooms (approximately one-third of the year). If there are children, it may be appropriate to test their rooms or other areas where they spend a lot of time, especially at the lower levels. All short-term follow-up tests **must** be conducted under closed-building conditions. If closed-building conditions cannot be maintained, a long-term measurement conducted under normal living conditions could be used to help estimate average annual exposures.

Tests **should not be conducted** in a kitchen or a bathroom because high humidity, exhaust fans, and other factors can adversely affect the test results. Tests **should not be conducted** in storage areas or laundry rooms, because relatively little time is spent there. Although radon in water may be a contributor to the concentration of airborne radon, radon in air should be **confirmed** before a test for radon in water is performed.

It is recommended that before spending any time or money on radon mitigation, one should conduct multiple (three or more) tests to be certain there is a need. A few more tests will most certainly cost considerably less than any mitigation work.

If follow-up measurements have **confirmed** that the average annual level of radon is equal to or greater than 4 pCi/L, the USEPA recommends that the building or home be mitigated for radon. Consider also that a future buyer is likely to demand that the building pass a radon test before purchasing.

Variations in Radon Levels: what can affect your test results and why it may be important to conduct confirmation tests.

When tests are performed in different seasons or under different weather conditions, the initial screening and follow-up tests may vary considerably. Radon levels can vary significantly between seasons, so different values **are to be expected**. Even during normal

weather, indoor radon levels may rise and fall by a factor of two on a daily cycle; for example, from 5 pCi/L to 10 pCi/L in 24 hours. During rapidly changing or stormy weather, the levels may change more dramatically. Because continual changes in radon levels are considered the norm, expose the testing device for as long as is practical, while following the manufacturer's recommendations. This, of course, provides a better overall average of the measurement.

If you are comparing tests, or are averaging a series of tests, bear in mind that any radon test returns only the average of the levels present during a **specific period of time** at the **precise location** of the test. Conditions during a different test period or at a different location in the building are **expected to be different**.

Test results can also vary if the radon test instructions were not carefully followed. A laboratory measuring radon in samples taken outside the lab **must rely on the person conducting the test**. For example, the wrong starting or ending date of a test will significantly affect the calculated result. The location of each radon test can also influence the result. For example, a test placed in the blowing air stream of a fan is likely to collect more radon than it would under normal conditions. Also, three tests conducted in one home, but in three different rooms, **would be expected to have at least slightly different test results**.

Test results from a properly used activated charcoal test will more closely reflect the average radon concentrations over the last three to five days of the test period. This happens because the radon collected by the activated charcoal has a radioactive half-life of only four days. This means, for example, over one-half of the radon collected during the first three days of a seven day test 'died' before the test ended. Seven day exposures of activated charcoal test devices are suggested because this allows the charcoal to equilibrate with its environment, averaging out the peaks and valleys that normally occur in real-life radon levels. Also the aspect of user convenience is considered, because most find it easier to remember to end a test on the same day of the week it was started.

If you have further questions regarding this test or need advice on follow-up testing, call fax or write to our technical service department listed below. Thank you for choosing the Air Chek test device.

PERFORMING RADON TESTS FOR A REAL ESTATE TRANSACTION

EPA guidelines recommend that at least two short-term tests should be conducted, either together or sequentially, at the same location in the building. If the average of all the tests is below 4 pCi/L, then no further action is necessary at this time. It is **highly recommended** that any property transaction tests be conducted by a **non-interested third party**. To locate a listed or certified radon tester, contact your state or regional EPA radon office or visit our website at <http://www.radon.com> to download a list of NEHA-certified testers. Ask for or download publication number EPA 402-K-00-008 **Home Buyer's and Seller's Guide to Radon**.

Limitation of Liability: While we at Air Chek, Inc. make every effort to maintain the highest possible quality control and include several checks and verification steps in our procedures, we make **NO WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS** with respect to any item furnished, information supplied or services rendered you by Air Chek, Inc. Before any action is taken on the basis of test results given to you by Air Chek, Inc. we recommend that further testing be done. Neither Air Chek, Inc., nor any of our employees or agents, shall be liable under any claim, charge, or demand, whether in contract, tort or otherwise, for any and all losses, costs, charges, claims, demands, fees, expenses, injuries or damages (including without limitation **INCIDENTAL OR CONSEQUENTIAL DAMAGES WHICH ARE EXCLUDED**) of any nature or kind arising out of, connected with, resulting from, or sustained as a result of any item furnished, information supplied, or service rendered to you by Air Chek, Inc.

Notice to Pennsylvania Residents: The Radon Certification Act requires that anyone who provides any radon-related service or product to the general public must be certified by the Pennsylvania Department of Environmental Protection. You are entitled to evidence of certification from any person who provides such services or products. You are also entitled to a price list for services or products offered. All radon measurement data will be sent to the Department as required in the Act and will be kept confidential. If you have any questions, comments, or complaints concerning persons who provide radon-related services, please contact the Department of Environmental Protection, P.O. Box 8469, Harrisburg, PA 17105-8469 (717-783-4594).

The radon test kit(s) used for this report is certified by the NEHA-NRPP, Lab ID: 101138, for use in all fifty states. It is also listed or certified for use in all states that have a radon program.

For technical information, call (828) 684-0893. Office hours are Mon-Fri 8:30 to 5:30 EASTERN
You can reach us by Fax at (828) 684-8498 or write to Air Chek, Inc., Box 2000, Naples, NC 28760
Web Site: <http://www.radon.com> **Email to:** info@radon.com

03/15/12 ACTIVATED CHARCOAL RADON TEST #6102530

Radon Test Result: 2.3 ±0.2 pCi/L

Test Started 03/07/12 at 11:00 am

Test Ended 03/12/12 at 2:00 pm

Closed house conditions maintained during test.

Location Basement



**CITY OF ST PAUL HRA
737 PLUM
SAINT PAUL, MN 55102**

INTERPRETING YOUR TEST RESULT

The US EPA action level for indoor radon is 4.0 pCi/L. The EPA recommendation for results in this range (2.0 to 3.9 pCi/L) is to conduct further tests to determine the true annual average, ideally with a long-term test kit. If the result remains between 2 and 4 there is little short-term risk, but you should consider fixing your home. Additionally, if you make any structural changes or start to use a lower level of the building more frequently, you should test again.

You may be able to obtain additional information about radon related subjects by calling your **state radon officer at 800-798-9050**. Or call the "Radon Fix-It Line" at 800-644-6999 Monday thru Friday between NOON and 8 pm EST

This test result reflects the amount of radon measured in this sample AFTER it arrived at our laboratory. All analysis computations are automatically adjusted to reflect the length of test, the amount of moisture in the sample, time from the end of test, and the amount of radiation measured. If ALL the test instructions were carefully followed, then it is reasonable to assume this is an accurate assessment of the average level of the radon this sample was exposed to during the time indicated on the test packet.

READ THIS FIRST

This result has been rounded to one-tenth (0.1) of a pCi/L (picoCurie per liter), the most common method of reporting radon in air.

NEXT...PLEASE...READ

everything under the heading

INTERPRETING YOUR TEST RESULT

Your health risk

The primary health risk from long-term exposure to radon is lung cancer. The risk of developing a lung cancer from radon exposure depends both on how much radon is present and how long you are exposed to radon. The higher the radon level or the longer the time of exposure, even if the levels are relatively low, the greater the risk. Exposures up to 4 pCi/L may present some risk of contracting lung cancer to more sensitive occupants, especially children. Recently the US Congress set as a goal the lowering of radon levels in buildings to equal the levels of outside air.

What is a picoCurie

For those interested in the numbers, a picoCurie is 0.000,000,000,001 (one-trillionth) of a Curie, an international measurement unit of radioactivity. One pCi/L means that in one liter of air there will be 2.2 radioactive disintegrations each minute. For example, at 4 pCi/L there will be approximately 12,672 radioactive disintegrations in one liter of air, during a 24-hour period.

Conducting Follow-up Measurements

USEPA protocol describes two general types of radon measurements: short-term tests conducted from 48 hours up to 90 days, and long-term tests that last from 90 to 365 days. Your first test (initial/screening) should be a short-term 'worst-case' screening to see if there is a potential for high exposure to radon. Screening tests should be conducted under closed-building conditions, in the lowest lived-in area in the house, because the highest concentrations of radon will usually be found in a room closest to the underlying soil. Tests made under these conditions are less likely to miss a house with a potential for high concentrations. On the other hand, if the results of worst-case screening tests are very low, there is a high probability that the average annual concentrations in the house are also low.

* Your state has designated a radon officer to assist citizens with questions on radon. Most offer free information on radon and radon reduction techniques, and most keep a list of qualified radon testing and mitigation businesses. Your radon officer can also provide the phone number of your regional USEPA office.

Conducting Follow-up Measurements

The higher your initial (screening) tests, the sooner you should conduct follow-up measurements. The EPA states that you should retest the same location that was tested initially. **For additional or follow-up testing,** make sure at least one test is conducted in the **lowest lived-in level** of the home. Also choose regularly used rooms, such as family rooms, dens, playrooms, or bedrooms. A bedroom on the lower level may be a good choice, because people generally spend the most time in their bedrooms (approximately one-third of the year). If there are children, it may be appropriate to test their rooms or other areas where they spend a lot of time, especially at the lower levels. All short-term follow-up tests **must** be conducted under closed-building conditions. If closed-building conditions cannot be maintained, a long-term measurement conducted under normal living conditions could be used to help estimate average annual exposures.

Tests **should not be conducted** in a kitchen or a bathroom because high humidity, exhaust fans, and other factors can adversely affect the test results. Tests **should not be conducted** in storage areas or laundry rooms, because relatively little time is spent there. Although radon in water may be a contributor to the concentration of airborne radon, radon in air should be **confirmed** before a test for radon in water is performed.

It is recommended that before spending any time or money on radon mitigation, one should conduct multiple (three or more) tests to be certain there is a need. A few more tests will most certainly cost considerably less than any mitigation work.

If follow-up measurements have **confirmed** that the average annual level of radon is equal to or greater than 4 pCi/L, the USEPA recommends that the building or home be mitigated for radon. Consider also that a future buyer is likely to demand that the building pass a radon test before purchasing.

Variations in Radon Levels: what can affect your test results and why it may be important to conduct confirmation tests.

When tests are performed in different seasons or under different weather conditions, the initial screening and follow-up tests may vary considerably. Radon levels can vary significantly between seasons, so different values **are to be expected**. Even during normal

weather, indoor radon levels may rise and fall by a factor of two on a daily cycle; for example, from 5 pCi/L to 10 pCi/L in 24 hours. During rapidly changing or stormy weather, the levels may change more dramatically. Because continual changes in radon levels are considered the norm, expose the testing device for as long as is practical, while following the manufacturer's recommendations. This, of course, provides a better overall average of the measurement.

If you are comparing tests, or are averaging a series of tests, bear in mind that any radon test returns only the average of the levels present during a **specific period of time** at the **precise location** of the test. Conditions during a different test period or at a different location in the building are **expected to be different**.

Test results can also vary if the radon test instructions were not carefully followed. A laboratory measuring radon in samples taken outside the lab **must rely on the person conducting the test**. For example, the wrong starting or ending date of a test will significantly affect the calculated result. The location of each radon test can also influence the result. For example, a test placed in the blowing air stream of a fan is likely to collect more radon than it would under normal conditions. Also, three tests conducted in one home, but in three different rooms, **would be expected to have at least slightly different test results**.

Test results from a properly used activated charcoal test will more closely reflect the average radon concentrations over the last three to five days of the test period. This happens because the radon collected by the activated charcoal has a radioactive half-life of only four days. This means, for example, over one-half of the radon collected during the first three days of a seven day test 'died' before the test ended. Seven day exposures of activated charcoal test devices are suggested because this allows the charcoal to equilibrate with its environment, averaging out the peaks and valleys that normally occur in real-life radon levels. Also the aspect of user convenience is considered, because most find it easier to remember to end a test on the same day of the week it was started.

If you have further questions regarding this test or need advice on follow-up testing, call fax or write to our technical service department listed below. Thank you for choosing the Air Chek test device.

PERFORMING RADON TESTS FOR A REAL ESTATE TRANSACTION

EPA guidelines recommend that at least two short-term tests should be conducted, either together or sequentially, at the same location in the building. If the average of all the tests is below 4 pCi/L, then no further action is necessary at this time. It is **highly recommended** that any property transaction tests be conducted by a **non-interested third party**. To locate a listed or certified radon tester, contact your state or regional EPA radon office or visit our website at <http://www.radon.com> to download a list of NEHA-certified testers. Ask for or download publication number EPA 402-K-00-008 **Home Buyer's and Seller's Guide to Radon**.

Limitation of Liability: While we at Air Chek, Inc. make every effort to maintain the highest possible quality control and include several checks and verification steps in our procedures, we make **NO WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS** with respect to any item furnished, information supplied or services rendered you by Air Chek, Inc. Before any action is taken on the basis of test results given to you by Air Chek, Inc. we recommend that further testing be done. Neither Air Chek, Inc., nor any of our employees or agents, shall be liable under any claim, charge, or demand, whether in contract, tort or otherwise, for any and all losses, costs, charges, claims, demands, fees, expenses, injuries or damages (including without limitation **INCIDENTAL OR CONSEQUENTIAL DAMAGES WHICH ARE EXCLUDED**) of any nature or kind arising out of, connected with, resulting from, or sustained as a result of any item furnished, information supplied, or service rendered to you by Air Chek, Inc.

Notice to Pennsylvania Residents: The Radon Certification Act requires that anyone who provides any radon-related service or product to the general public must be certified by the Pennsylvania Department of Environmental Protection. You are entitled to evidence of certification from any person who provides such services or products. You are also entitled to a price list for services or products offered. All radon measurement data will be sent to the Department as required in the Act and will be kept confidential. If you have any questions, comments, or complaints concerning persons who provide radon-related services, please contact the Department of Environmental Protection, P.O. Box 8469, Harrisburg, PA 17105-8469 (717-783-4594).

The radon test kit(s) used for this report is certified by the NEHA-NRPP, Lab ID: 101138, for use in all fifty states. It is also listed or certified for use in all states that have a radon program.

For technical information, call (828) 684-0893. Office hours are Mon-Fri 8:30 to 5:30 EASTERN
You can reach us by Fax at (828) 684-8498 or write to Air Chek, Inc., Box 2000, Naples, NC 28760
Web Site: <http://www.radon.com> **Email to:** info@radon.com

Neighborhood Energy Connection

Residential Energy Specification

Customer: City of Saint Paul

Auditor: Michael Childs

Address: 737 Plum Street

Phone: 651-221-4462 #145

Spec ID#	Spec Title	Specification	Location / Notes
104	Replace Furnace with 95% AFUE Forced Air Furnace	Remove existing furnace, 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 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 set back 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.	
304	Replace Water Heater with Power Vented .67 EF	Replace 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.	

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 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. "Essentially stopped" means that air leakage will not be detected by an infrared scan when the house is pressurized to 30 Pascals. 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.	
514	Spray Foam Open Slants after installing air chutes (vaulted ceiling)	Follow manufacturer's instructions to completely and evenly fill the cavity. Foam if 2nd floor vaulted ceiling is gutted.	Option 1: if opening up slants
516	Insulate Slants to capacity (vaulted ceiling)	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/cubic foot or dense pack spider fiberglass per manufacturer's instructions.	Option 2: If not removing sheetrock/plaster Insulate vaulted ceiling best way possible.
524	Insulate Flat Roof	All bypasses shall be sealed before insulating 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. Insulate to R-50. If there is not enough room, insulate to capacity.	Above front entry and rear addition.
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	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.	
532	Build Dam, insulate and weather strip attic hatch	Access hatch door to attic shall be insulated to R-40 and insulation dam constructed around opening. Opening shall be weather stripped to provide a tight seal.	
616	Wall insulation - Interior Application: Dense Pack Cellulose	Exterior walls insulated from inside the house shall be drilled through to provide access.	Option 1.
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.	Option 2.
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.	Option 3.
806	Air Seal and Insulate Rim Joist using two-part foam	Apply two-part foam evenly and consistently according to manufacturer's instructions to insulate to R-10 around basement rim joist.	
912	Insulate crawlspace walls	Install Vapor barrier to bare ground and attach to walls before spray foam Use spray foam on rim joist, band joist and walls to minimum R-19.	
	I		

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

Plum Street
Saint Paul, MN 55106



**3 Stars Plus
As Is**

Uniform Energy Rating System

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

Energy Efficient

HERS Index: 131

General Information

Conditioned Area: 2731 sq. ft.
 Conditioned Volume: 22956 cubic ft.
 Bedrooms: 3
 House Type: Single-family detached
 Foundation: More than one type

Mechanical Systems Features

Heating: Fuel-fired air distribution, Natural gas, 80.0 AFUE.
 Water Heating: Conventional, Natural gas, 0.52 EF, 40.0 Gal.

Duct Leakage to Outside: RESNET/HERS default
 Ventilation System: None
 Programmable Thermostat: Heating: No Cooling: No

Building Shell Features

Ceiling Flat: R-19
 Vaulted Ceiling: R-13
 Above Grade Walls: R-11
 Foundation Walls: R-1.1
 Slab: R-0.0 Edge, R-0.0 Under
 Exposed Floor: NA
 Window Type: Double - Vinyl
Infiltration:
 Rate: Htg: 5535 Clg: 5535 CFM50
 Method: Blower door test

Lights and Appliance Features

Percent Interior Lighting: 0.00
 Percent Exterior Lighting: 0.00
 Refrigerator (kWh/yr): 691.00
 Dishwasher Energy Factor: 0.46
 Range/Oven Fuel: Natural gas
 Clothes Dryer Fuel: Natural gas
 Clothes Dryer EF: 3.01
 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 v12.97

This information does not constitute any warranty of energy cost or savings.
 © 1985-2012 Architectural Energy Corporation, Boulder, Colorado.

Registry ID:

Rating Number:

Certified Energy Rater: Michael Childs

Rating Date: 3/19/2012

Rating Ordered For: City of Saint Paul

Estimated Annual Energy Cost

Use	As Is		
	MMBtu	Cost	Percent
Heating	244.0	\$2264	67%
Cooling	0	\$0	0%
Hot Water	24.1	\$217	6%
Lights/Appliances	30.4	\$700	21%
Photovoltaics	-0.0	\$-0	-0%
Service Charges		\$180	5%
Total		\$3361	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

Plum Street
Saint Paul, MN 55106



5 Stars
Projected Rating

Uniform Energy Rating System

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

Energy Efficient

HERS Index: 78

General Information

Conditioned Area: 2731 sq. ft.
Conditioned Volume: 22956 cubic ft.
Bedrooms: 3

House Type: Single-family detached
Foundation: More than one type

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: RESNET/HERS default
Ventilation System: Exhaust Only: 60 cfm, 13.0 watts.
Programmable Thermostat: Heating: Yes Cooling: Yes

Building Shell Features

Ceiling Flat: R-50, R-19
Vaulted Ceiling: NA
Above Grade Walls: R-13
Foundation Walls: R-1.1, R-11.1
Slab: R-0.0 Edge, R-0.0 Under

Exposed Floor: NA
Window Type: NFRC .31 / .31

Infiltration:
Rate: Htg: 3135 Clg: 3135 CFM50
Method: Blower door test

Lights and Appliance Features

Percent Interior Lighting: 80.00
Percent Exterior Lighting: 0.00
Refrigerator (kWh/yr): 691.00
Dishwasher Energy Factor: 0.46

Range/Oven Fuel: Natural gas
Clothes Dryer Fuel: Natural gas
Clothes Dryer EF: 3.01
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 v12.97

This information does not constitute any warranty of energy cost or savings.
© 1985-2012 Architectural Energy Corporation, Boulder, Colorado.

Registry ID:

Rating Number:

Certified Energy Rater: Michael Childs

Rating Date: 3/19/2012

Rating Ordered For: City of Saint Paul

Estimated Annual Energy Cost

Projected Rating

Use	MMBtu	Cost	Percent
Heating	139.8	\$1269	56%
Cooling	1.7	\$49	2%
Hot Water	19.4	\$174	8%
Lights/Appliances	26.7	\$602	26%
Photovoltaics	-0.0	\$-0	-0%
Service Charges		\$180	8%
Total		\$2275	100%

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

TITLE

Company

Address

City, State, Zip

Phone #

Fax #



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

March 13, 2012

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

Re: 737 Plum St
File#: 10 220465 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 March 13, 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 March 13, 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: Jim Seeger** **Phone: 651-266-9046**

- Remove mold, mildew and moldy or water damaged materials.
- Remove or encapsulate asbestos in an approved manner if present.
- 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 or replace damaged doors and frames as necessary, including storm doors.
- Install floor covering in bathroom and kitchen that is impervious to water.
- 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.
- Provide fire block construction as necessary and seal chases in basement ceiling.

Re: 737 Plum St
March 13, 2012
Page 2

BUILDING **Inspector: Jim Seeger** **Phone: 651-266-9046**

- 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.
- 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 house and garage.
- Install rain leaders to direct drainage away from foundation.
- Provide general rehabilitation of garage.
- Review all applicable codes & policies when replacing windows including egress windows for sleeping rooms.
- Properly attach deck to house and support post to beams.
- Replace overhead garage door on garage.
- Install gable end supports in garage ceiling.
- Install 1 hour fire wall on west wall of garage.
- Repair or remove fences.
- Install support for head joist over basement stairs both ends.
- Install vapor barrier in crawl spaces
- Remove second floor kitchen.
- Repair second floor ceilings.
- Replace decayed or mismatched siding and trim.
- Have fireplace inspected by qualified inspector and submit report.
- A building permit is required to correct the above deficiencies.

ELECTRICAL **Inspector: Dan Moynihan** **Phone: 651-266-9036**

- Bond around water meter with a copper wire sized for the electrical service per Article 250 of the NEC
- Remove all cord wiring - garage.
- 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. No power at time of inspection.
- 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
- Remove and or/ re-wire all illegal, improper or hazardous wiring in garage.
- Repair service mast.
- Based on repair list purchase permit for a service and 5 circuits.
- All added receptacles must be grounded, tamper-resistant and be on an Arc-Fault Circuit Interrupter-protected circuit.

Re: 737 Plum St
March 13, 2012
Page 3

ELECTRICAL **Inspector: Dan Moynihan** **Phone: 651-266-9036**

- 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 Heater - No gas shut off or gas piping incorrect (IFGC 402.1)
- Basement - Water Heater - gas venting incorrect (IFGC 503)
- Basement - Water Heater - 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 - support meter properly (MPC 2280)
- Basement - Water Piping - improper fittings or usage (MPC 0420)
- Basement - Water Piping - improper piping or usage (MPC 0520)
- Basement - Water Piping - pipe sizing incorrect (MPC 4715.1730)
- 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 - missing - replace 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 pipe supports (MPC 1430 Subp. 4)
- Basement - Soil and Waste Piping - no front sewer clean out (MPC 1000)
- Basement - Soil and Waste Piping - no soil stack base clean out
- Basement - Soil and Waste Piping - replace the floor drain cover or clean out plug (MPC 1300)
- Basement - Soil and Waste Piping - unplugged or open piping; back pitched piping (MPC 1000)
- Basement - Laundry Tub - faucet is missing, broken or parts missing (MPC 0200. P.)
- Basement - Laundry Tub - water piping incorrect (MPC 0200 P.)
- First Floor - Main Bath - Gas Piping - range gas shut off; connector or piping incorrect (IFGC 411 1.3.3)

Re: 737 Plum St
March 13, 2012
Page 4

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

- First Floor - Main Bath - Lavatory - waste incorrect (MPC 2300) also secure to wall properly.
- First Floor - Main Bath - Sink - waste incorrect (MPC 2300)
- First Floor - Main Bath - Toilet Facilities - incorrectly vented (MPC 2500)
- First Floor - Main Bath - Toilet Facilities - waste incorrect (MPC 2300)
- First Floor - Main Bath - Tub and Shower - Provide access (MPC 0900)
- First Floor - Main Bath - Tub and Shower - provide stopper (MPC 1240)
- First Floor - Main Bath - Tub and Shower - replace waste and overflow (MPC 1240)
- First Floor - Master Bath - Toilet - reset toilet to floor.
- First Floor - Master Bath - Lavatory - waste incorrect (MPC 2300) also secure to wall properly
- First Floor - Master Bath - Tub and Shower - Provide access (MPC 0900)
- First Floor - Master Bath - Tub and Shower - provide stopper (MPC 1240)
- Exterior - Gas piping - test gas piping and provide proper entry into building for Excel, unlock of the gas meter.
- Exterior - Gas Piping - Improper entry into dwelling (IFGC 404.4)
- Exterior - Piping Vents - Incorrect sizing (MPC 2530 Subp. 2) also verify proper vent through roof of main bathroom
- Comments: - Remove gas opening from first floor bathroom behind tub shower. Waste for bathrooms in an inaccessible location. Plumber to verify proper waste.
- Obtain plumbing permits prior to commencement of work.

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

- Install approved lever handle manual building shutoff gas valve in an accessible location ahead of the first branch tee
- Clean and Orsat test boiler 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
- Install approved metal chimney liner
- Connect furnace and water heater venting into chimney liner
- Vent clothes dryer to code
- Provide adequate combustion air and support duct to code
- Provide support for gas lines to code
- Plug, cap and/or remove all disconnected gas lines
- Install furnace air filter access cover
- All supply and return ducts for warm air heating system must be clean before final approval for occupancy. Provide access for inspection of inside of ducts or provide documentation from a licensed duct-cleaning contractor that the duct system has been cleaned.
- Repair and/or replace heating registers as necessary
- Provide heat in every habitable room and bathrooms

Re: 737 Plum St
March 13, 2012
Page 5

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

- Submit Documentation from a licensed contractor that the wood burning fireplace is clean and safe for use or permanently seal openings
- Install sediment trap (dirt leg) on gas line to furnace.
- 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.
- This property is in a designated Heritage Preservation District and all exterior work is subject to HPC guidelines and review before permits are issued.
- Most of the roof covering could not be inspected from grade. Recommend this be done before rehabilitation is attempted.
- The building is approved for 1dwelling units but contains 2 dwelling units. Obtain approval for additional units or remove the excess dwelling units. If the additional units are approved, maintain the required fire-separation between dwelling units and between units and common area.

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.)

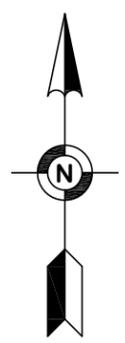
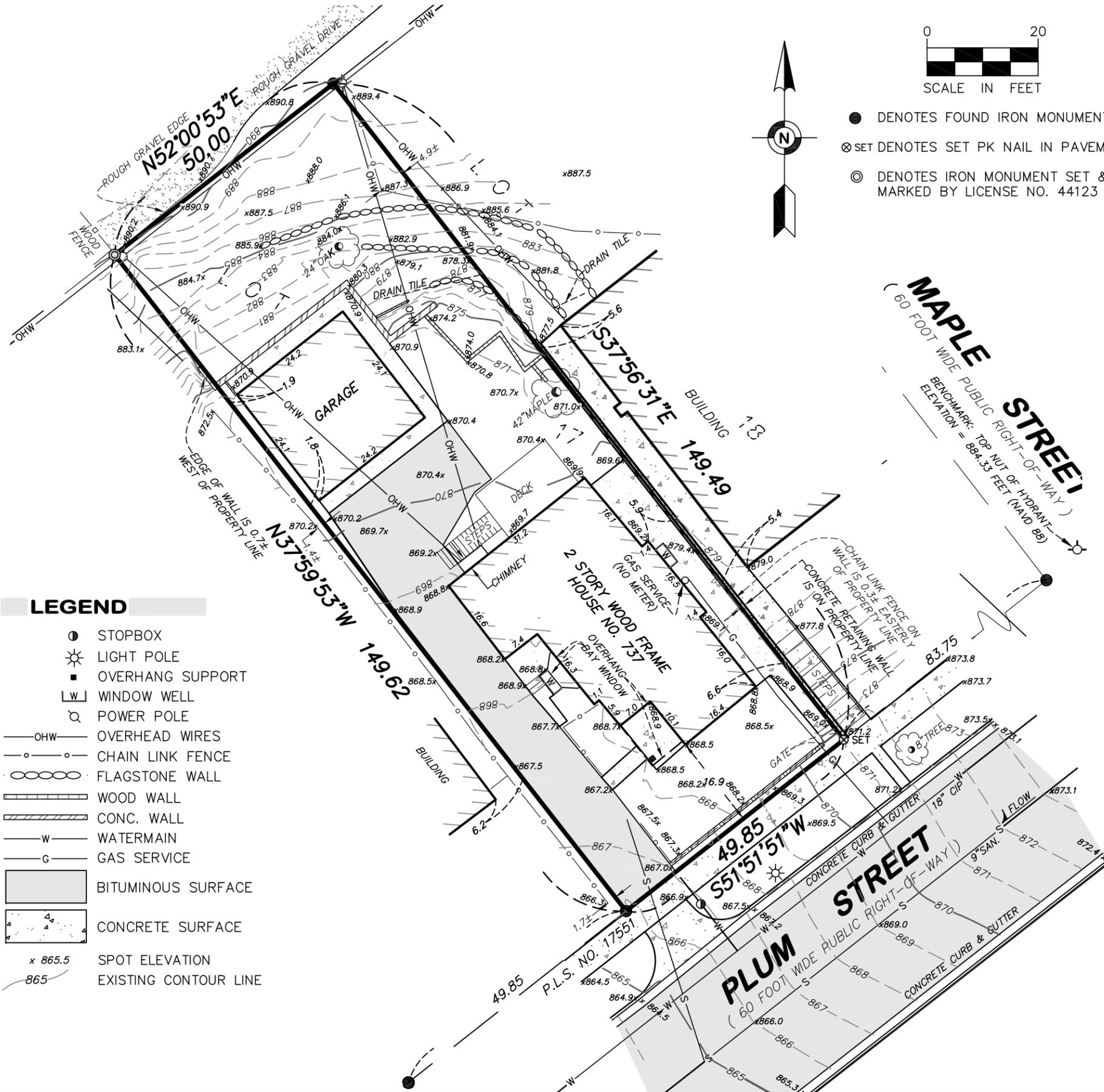
If you have any questions regarding this inspection report, please contact Jim Seeger between 7:30 - 9:00 AM at 651-266-9046 or leave a voice mail message.

Sincerely,

James L. Seeger, Code Compliance Officer
Phone: 651-266-9046
Email: james.seeger@ci.stpaul.mn.us

JLS:ml Attachments

CERTIFICATE OF SURVEY FOR: HOUSING AND REDEVELOPMENT AUTHORITY OF THE CITY OF SAINT PAUL, MINNESOTA



- DENOTES FOUND IRON MONUMENT
- ⊗ SET DENOTES SET PK NAIL IN PAVEMENT
- ⊙ DENOTES IRON MONUMENT SET & MARKED BY LICENSE NO. 44123

LEGAL DESCRIPTION:

Lot 17, Auditor's Subdivision No. 20, according to the recorded plat thereof, and situate in Ramsey County, Minnesota.

Parcel Number: 33.29.22.32.0152
Parcel Address: 737 Plum Street

NOTES:

1. The orientation of this bearing system is based on the Ramsey County Coordinate Grid, (NAD 83-96 Adj.)
2. The area of the property described hereon is 7,467 square feet.
3. The legal description and easement information used in the preparation of this survey were based on an Owners Policy prepared by Old Republic National Title Insurance Company, Policy No. OX08002108, having a date of February 22, 2010.
4. Visible improvements are shown on the survey. Other improvements not visible to the surveyor may be present.
5. BENCHMARK: Minnesota Department of Transportation Control Monument "6283 W". Elevation = 765.769 feet (NAVD 88).
6. Existing utilities and services shown hereon, were located either physically, from existing records made available to us, by resident testimony, or by locations provided by Gopher One per ticket No. 122481674. Other utilities and services may be present. Verification and location of all utilities and services should be obtained from the owners of the respective utilities prior to any design, planning or excavation.

CERTIFICATION:

I hereby certify that this survey 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.

Dated this 6th day of September, 2012.

Brent R. Peters
Brent R. Peters, P.L.S.
Minnesota License No. 44123

- ### LEGEND
- STOPBOX
 - ☀ LIGHT POLE
 - OVERHANG SUPPORT
 - ⌈⌋ WINDOW WELL
 - ⊗ POWER POLE
 - OHW — OVERHEAD WIRES
 - ○ — CHAIN LINK FENCE
 - ⊖ FLAGSTONE WALL
 - ▨ WOOD WALL
 - ▩ CONC. WALL
 - W — WATERMAIN
 - G — GAS SERVICE
 - BITUMINOUS SURFACE
 - ▨ CONCRETE SURFACE
 - x 865.5 SPOT ELEVATION
 - 865 EXISTING CONTOUR LINE

1229 Tyler Street NE, Suite 100
 Minneapolis, Minnesota 55413
 PHONE: (612) 466-3300
 FAX: (612) 466-3383
 WWW.EFNSURVEY.COM
 COPYRIGHT © 2012 By EGAN, FIELD & NOWAK, INC.



SURVEY FOR:
**HOUSING & REDEVELOPMENT AUTHORITY
 OF THE CITY OF SAINT PAUL, MINNESOTA**
 737 PLUM STREET, SAINT PAUL, MN

FIELD BOOK	PAGE	FIELDWORK CHIEF:	DRAWN BY:	CHECKED BY:
2743	54	S.W.	kgf	B.R.P.
DRAWING NAME:		JOB NO.		
35342.dwg		35342		
FILE NO.		5965		

