

Asbestos and Lead Based Paint Site Investigation Report

**VA Medical Center
Building #3
Omaha, NE**

Prepared For:

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AMIE # 14-00391

March 3, 2015



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1.0 SURVEY OVERVIEW

On February 4th, 2015, Building 3, located at the VA Medical Center in Omaha, Nebraska, was inspected for asbestos-containing materials (ACMs), lead-based painted building components and lead-containing materials. The survey was initiated by Mr. Gary Lundgren of Leo A Daly in Omaha, Nebraska.

Mr. Thomas Manion conducted the asbestos inspection. Mr. Manion has completed the requisite training for asbestos accreditation as inspectors at a state-approved training provider, as required by the Toxic Substances Control Act (TSCA Title II). Mr. Manion's United States Environmental Protection Agency (EPA) and State of Nebraska Building Inspector numbers are ME13300B6E93B3451 and 845, respectively.

Mr. Thomas Manion conducted the lead-based painted building components and lead-containing materials inspection. Mr. Manion has completed the requisite training for lead accreditation as lead inspector/risk assessor. Mr. Manion's United States Environmental Protection Agency (EPA) certificate number is 7ME11061201DRAR001.

2.0 SURVEY METHODOLOGY

2.1 Asbestos-Containing Materials

2.1.1 Applicable Definitions

The EPA and the Occupational Safety and Health Administration (OSHA) define ACMs as any material that contains greater than one percent asbestos, as determined by visual area estimation (microscopic analysis).

By definition, friable ACMs contain more than one percent asbestos, release fibers more readily and, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. In contrast, non-friable ACMs contain more than one percent asbestos but, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure.

2.1.2 Bulk Sampling

The asbestos inspection was performed in accordance with EPA's National Emission Standard for Hazardous Air Pollutants (NESHAP), 40 CFR 61. The survey included a pre-renovation inspection of the structure to identify suspect ACMs that may be impacted by future renovation.

A total of eighty-six bulk samples were taken from suspect ACMs. Polarized Light Microscopy (PLM) analysis, utilizing dispersion staining techniques (ref: EPA Method 600/R-93/116), was performed on one hundred nineteen heterogeneous

applications to determine asbestos content. Suspect ACMs were classified as either friable or non-friable ACMs, based on touching and/or sampling the material.

EMSL Analytical, located at 200 Route 130 North, Cinnaminson, NJ 08077, analyzed the samples of suspect ACMs. EMSL Analytical is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) and is assigned laboratory number 101048-0.

Please refer to the laboratory reports, Appendix B, for a listing of all materials analyzed.

2.1.3 Quantification Method Analysis

EPA regulations allow materials determined to contain less than 10 percent asbestos utilizing a visual estimate quantification method, such as PLM analysis, to be treated as non-asbestos containing if the material is re-analyzed using one of two quantification methods and determined to contain one percent or less of asbestos. The two acceptable quantification methods are point count analysis and TEM Chatfield analysis, which is used exclusively on floor tile.

Quantification methods are more time-consuming and more expensive analytical procedures that are occasionally used to more accurately determine the amount of asbestos in certain samples. Because of their higher cost and the acceptable accuracy of the less expensive visual estimation method, laboratories do not typically perform quantification analyses unless specifically requested.

The quantification method known as point counting analysis is used for most ACM types, except floor tile. The organic matrix composition of floor tile precludes the use of point count analysis to more accurately determine asbestos amounts within a sample. Therefore, TEM Chatfield analysis—which effectively removes all organic materials, leaving only asbestos behind—is necessary to provide a more precise percentage of asbestos content in floor tile.

Experience shows that unless the amount of asbestos in certain materials analyzed by PLM visual estimation is sufficiently low, analysis by point counting or TEM Chatfield analyses seldom changes the material classification to non-asbestos-containing. Therefore, point count and TEM Chatfield analyses are not often recommended.

2.1.4 Survey Limitations

At the discretion of the inspector, samples were not collected from materials that are not accessible and/or require dismantling or damage to the finished surfaces (such as walls and ridged ceilings). Suspect ACMs that are not accessible may include thermal

system insulation on mechanical lines inside finished interior walls and ceilings. These applications should be identified at the time of renovation or demolition. Sampling of these materials may not be necessary if these materials are presumed to be asbestos-containing or if the materials discovered within the concealed spaces are determined, by a licensed asbestos inspector, to be homogenous to other materials that were sampled.

2.2 Lead-Based Painted Building Components and Lead-Containing Materials

2.2.1 X-Ray Fluorescence Testing

A portable X-ray fluorescence (XRF) instrument was used for determining the presence and concentration of lead in the facility.

Portable XRF instruments expose painted surfaces, porcelain, glazed block, vinyl and other possible lead-containing materials to X-rays or other high energy radiation—such as gamma rays—which causes lead to emit X-rays with a characteristic frequency. The intensity of this radiation is measured by the instrument's detector, and is then converted into a number that represents the amount of lead in the paint per unit area, usually milligrams per square centimeter (mg/cm²).

A total of one hundred-sixteen readings, including twenty-four calibration readings, were collected from suspect paints, coatings and materials to determine the concentration of lead present.

2.2.2 Classification of XRF Results

XRF results are classified as positive or negative. A positive classification indicates lead is present at or above the standard (determined by the EPA to be 1.0 mg/cm² or higher using XRF). A negative classification indicates lead at or above the standard is not present on the sample.

Please refer to Section 3.2 for a complete listing of components identified to contain lead levels exceeding the EPA's action level of 1.0 mg/cm².

Please refer to the laboratory reports, Appendix B, for a listing of all materials analyzed.

3.0 SURVEY RESULTS

3.1 Asbestos-Containing Materials

Amo – Amosite
 Chry – Chrysotile
 F – Friable

LF – Linear Feet
 MF – Mechanical Fittings
 MM – Miscellaneous Material

NA – Not Available
 ND – None
 Detected
 NF – Non-Friable

NS – Not Sampled
 PACM – Presumed ACM
 SF – Square Feet

SFP – Stop at First
 Positive
 SM – Surfacing Material
 TSI – Thermal System
 Insulation

****Asbestos-containing materials are in bold.****

Description	Color	Photo #	Material Location	Sample #	%	Type	F/ NF	Cond	Est. Qty.	Comment
12" VFT, with black mastic	Blue	3	Entry 100B	1a, b, c	4	Chry	NF	Good	40 SF	Mastic only positive
Floor mastic	Black	--	Room 104, under sub-floor	02a, b, c	ND	--	--	--	--	--
Carpet glue	Yellow	--	Throughout under carpet	03a, b, c	ND	--	--	--	--	--
Vinyl wall base (hard) – with brown mastic	Brown	4	Room 101A	04a, b, c	2	Chry	NF	Good	48 LF	Mastic only positive
Vinyl wall base – with brown mastic	Brown	--	Room B01	05a, b, c	ND	--	--	--	--	--
Vinyl wall base – with tan mastic	Black	--	Room B01	06a, b, c	ND	--	--	--	--	--
Sink undercoating	Gray	5	Room 104	07	5	Chry	NF	Good	1 EA	--
Interior door caulk	White	--	On doors throughout	08a, b, c	ND	--	--	--	--	--
Bathroom fixture caulk	White	--	Bathroom fixtures throughout	09a, b, c	ND	--	--	--	--	--
Radiator cover caulk	Tan	--	Radiators throughout	10a, b, c	ND	--	--	--	--	--
2' x 2' ceiling tiles	White	--	Throughout first floor	11a, b, c	ND	--	--	--	--	--
1' x 1' ceiling tiles	White	--	Throughout first floor (much above 2' x 2' suspended tiles) and second floor	12a, b, c	ND	--	--	--	--	--

Asbestos-Containing Materials, Lead-Based Painted Building Components and Lead-Containing Materials Site Investigation Report
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****Asbestos-containing materials are in bold.****

Description	Color	Photo #	Material Location	Sample #	%	Type	F/ NF	Cond	Est. Qty.	Comment
Tile glue pucks	Yellow	--	Associated with the 1' x 1' ceiling tiles	13a, b, c	ND	--	--	--	--	--
Fire stop	Red	--	B02 wall penetrations	14	ND	--	--	--	--	--
Mortar	Gray	6	B02 West wall were vent penetrates to the exterior	15	10 5	Amo Chry	NF	Good	1 SF	--
Ceiling insulation with backing	Black	--	B02 ceiling	16a, b, c	ND	--	--	--	--	--
Attic insulation	White	--	Throughout attic	17a, b, c	ND	--	--	--	--	--
Pipe insulation seam mastic	White	--	On newer fiberglass pipe insulation	18a, b, c	ND	--	--	--	--	--
Mechanical fitting insulation associated with fiberglass pipe runs	Tan	7	Throughout basement	19a 19b 19c	4 5 SFP SFP	Amo Chry	F	Good	25 MF	--
Pipe Insulation – air cell type	Gray	8	Throughout basement	20a 20b 20c	60 SFP SFP	Chry	F	Good	120 LF	--
Pipe Insulation – mag type	White	9	Throughout basement	21a 21b 21c	30 20 SFP SFP	Amo Chry	F	Good	35 LF	--

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Positive
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****Asbestos-containing materials are in bold.****

Description	Color	Photo #	Material Location	Sample #	%	Type	F/ NF	Cond	Est. Qty.	Comment
Mechanical fitting insulation associated with air cell and mag pipe runs	White	10	Throughout basement	22a 22b 22c	25 15 SFP SFP	Amo Chry	F	Good	40 MF	--
Sheetrock and joint compound	Blue	--	New construction areas	23a, b, c	ND	--	--	--	--	--
Sheetrock behind plaster	Blue	--	The backing behind all plaster	24a, b, c	ND	--	--	--	--	--
Plaster top coat	White	--	Throughout	25a, b, c, d, e, f, g	ND	--	--	--	--	--
Plaster bottom coat	Gray	--	Throughout	26a, b, c, d, e, f, g	ND	--	--	--	--	--
Window caulk	Black	--	Windows throughout	27a, b, c	ND	--	--	--	--	--
Soil	Brown	--	Crawl space	28a, b, c	<1	Chry	--	--	--	--
Rubber Roof Sealant	Gray	--	Front awning	29a, b, c	ND	--	--	--	--	--
Soffit/Roof edge sealant	Tan	11	On original wood trim around perimeter of building soffit	30a, b, c	5	Chry	NF	Good	220 LF	--
Roof flashing sealant	Gray	--	Roof	31a, b, c	ND	--	--	--	--	--
Exterior expansion caulk	Gray	--	Rear porch, new addition seam and sidewalk	32a, b, c	ND	--	--	--	--	--
Window/door caulk	Brown	--	Doors and windows throughout	33a, b, c	ND	--	--	--	--	--
Exterior exhaust vent sealant	White	12	West wall	34a, b, c	5	Chry	NF	Good	2 SF	--
Shingles	Black	--	Roof	35a, b, c	ND	--	--	--	--	--

3.2 Lead-Based Painted Building Components and Lead-Containing Materials

BDL – Below Detection Limit

CT – Ceramic Tile

GB – Glazed Block

LP – Lead Paint

LS – Lead Shielding

ML – Miscellaneous Lead (panels, laminates, solders, oakum, bricks)

NA – Not Available

NS – Not Sampled

POR – Porcelain

VB – Vinyl Baseboard

VS – Vinyl Sheeting

VT – Vinyl Tile

****Materials in table have a lead content above 1.0 mg/cm2****

Sample #	Description	Color	Location	Substrate	Reading (mg/cm2)	Condition	Comment
24	Basement support beam	Gray	Room B02	Metal	1.0	Good	--
25	Radiator	White	Room B02, West wall	Metal	1.0	Good	--
54	Paint on door casing	White	Room 101A	Wood	1.9	Good	--
66	Sink	White	Room 205	Porcelain	8.3	Good	--
67, 72	Bathtub	White	Rooms 201, 205	Porcelain	>9.9, >9.9	Good	--
68, 73, 86	Ceramic wall tile (textured)	White	Rooms 201, 205, 106	Ceramic	1.7, 2.2, 2.6	Good	--
70	Toilet	White	Room 201	Porcelain	1.9	Good	--
74	Radiator	White	Room 201	Metal	1.0	Good	--
10E	Handrail	White	Exterior, West side	Wood	2.0	Good	--
11E	Vent	White	Exterior vent on West wall	Wood	1.4, 1.2, 4.4	Good	--
12E	Window and door lentils	White	Exterior windows and doors	Metal	5.1	Good	--
16E	Wood trim and soffit	White	Exterior under new vinyl	Metal	2.1, 3.8, 4.2	Good	--

4.0 RISKS AND HAZARDS

4.1 Asbestos-Containing Materials

To be a significant health concern, asbestos fibers must be inhaled. When asbestos fibers are inhaled, they become lodged in the lung tissue or alveoli. Here they clog and scar the tissues, causing the walls of the alveoli to lose their elasticity and useful function in respiration. Asbestosis (scarring of the lung), lung cancer and Mesothelioma (cancer of the lining of the chest or lining of the abdominal wall) are diseases associated with asbestos exposure.

4.2 Lead-Based Painted Building Components and Lead-Containing Materials

Exposure to lead can be caused by demolition, alteration, friction and deterioration of lead-based painted and lead-containing surfaces. Lead hazards could exist if proper work practices, monitoring, disposal and personal protective equipment are not implemented during disturbance of these surfaces.

Inhalation and ingestion are the major routes of lead exposure. Once in the body, lead is distributed via the bloodstream to red blood cells, soft tissue and bone. The kidneys and gastrointestinal tract eliminate lead in the body very slowly; smaller amounts are lost through perspiration.

Lead in the body can cause serious damage to the central and peripheral nervous system, the cardiovascular system and the kidneys. Exposure to high concentrations of lead can cause mental retardation, convulsions, coma and sometimes death.

5.0 RECOMMENDATIONS

5.1 Asbestos-Containing Materials

The purpose of this section is to interpret survey findings and provide preliminary recommendations that may be relevant and appropriate at this time. Because this document is a presentation of investigative findings, recommendations related to future construction activities are inherently general in nature. More specific determinations concerning ACMs impacted by construction that may require removal can be made during the abatement project design process.

5.1.1 General Recommendations

State and/or federal regulations require that ACMs be removed prior to demolition or renovation activities that will impact the ACMs. Depending on the specific renovation work to be performed, certain ACMs may not require removal if they will not be

disturbed and do not pose a risk to building occupants or construction trade workers. However, to ensure worker safety and to eliminate future asbestos-related maintenance and management costs and risks, AMI recommends removal of all identified ACMs in the areas to be renovated. While partial abatement may be technically possible, it is often impractical and not cost-effective.

ACMs not impacted by renovation or demolition activities should be inspected annually and maintained in good condition. ACMs deemed to be in less than good condition (fair or poor) should be repaired or removed and replaced. Such repairs should be performed by qualified persons and in accordance with regulatory guidelines.

5.1.2 Hazardous Conditions Recommendations

There were no hazardous conditions identified that require immediate removal or repair.

5.2 Lead-Based Painted Building Components and Lead-Containing Materials

Ultimately, facilities are liable for their lead-containing hazardous waste from cradle to grave. EPA regulations provide two ways to make a determination whether the waste stream must be classified as hazardous waste. Waste generators can either test the waste using an approved testing method (Toxicity Characteristic Leaching Procedure [TCLP]), or they can apply knowledge of the hazardous characteristic of the waste.

Based on the initial lead results, AMI recommends TCLP testing be conducted on the existing building materials, painted and unpainted, prior to the start of any renovation or demolition activity.

Any lead-based painted building components or lead-containing materials not removed during renovation should be considered for inclusion in a facility management plan that maintains potential exposure below OSHA action levels and ensures the material will be handled properly and in accordance with applicable regulations.

6.0 REGULATORY REQUIREMENTS

6.1 Asbestos-Containing Materials

6.1.1 Notification Requirements

EPA's NESHAP, 40 CFR, Subpart M, 61.145, *Standard for Demolition and Renovation*, stipulates that an owner of a facility submit proper notification with either the EPA's regional office and/or the state and local regulatory agency of intention to demolish or renovate.

Notifications must be received by the appropriate regulatory agencies 10 working days prior to commencement of asbestos stripping or removal, or other site work. If the demolition or renovation date changes, or the scope of work is increased by more than 20 percent, another notification must be made.

6.1.2 Removal Requirements

Asbestos removal should be performed by a licensed abatement contractor. The contractor should follow all work practices, worker protection and disposal requirements set forth in the contract specifications and by the Occupational Safety and Health Administration (OSHA) and the EPA. Relevant regulations include 29 CFR 1910.1001, 29 CFR 1926.1101 and 40 CFR 763.

6.2 Lead-Based Painted Building Components and Lead-Containing Materials

6.2.1 Disposal Requirements

The Resource Conservation and Recovery Act (RCRA) classifies lead-containing waste streams as hazardous materials if TCLP levels exceed five parts per million. If TCLP leachable lead levels exceed that threshold, EPA regulations (40 CFR 261) require the waste stream to be handled and disposed of as a hazardous material. Waste streams containing less the five parts per million of leachable lead are classified as non-hazardous waste and can be disposed of in a construction and demolition landfill.

6.2.2 Construction Requirements

OSHA's 29 CFR 1926.62 regulates worker exposure to lead during construction activities that include demolition or salvage of structures where lead or materials containing lead are present, as well as removal or encapsulation of lead-containing materials. The standard establishes maximum limits of exposure to lead, including a permissible exposure limit and action level, and should be adhered to during construction and demolition activities. Additional testing of components scheduled for disturbance may be desired prior to or in conjunction with renovation activities to eliminate some measures where feasible.

Appendix A

Photo Log



PHOTO 1	Fisher House (bldg. 3) East side

PHOTO 2	Fisher House (bldg. 3) West side



PHOTO 3	Asbestos-Containing Black mastic under 12" x 12" blue vinyl tile

PHOTO 4	Asbestos-Containing Brown mastic behind 4" brown vinyl wall base



PHOTO 5	Asbestos-Containing sink undercoating

PHOTO 6	Asbestos-Containing mortar at vent pipe penetration



PHOTO 7	Asbestos-Containing Mechanical fitting insulation associated with fiberglass pipe runs



PHOTO 8	Asbestos-Containing Pipe Insulation – air cell type



PHOTO 9	Asbestos-Containing Pipe Insulation – mag type



PHOTO 10	Asbestos-Containing Mechanical fitting insulation associated with air cell and mag pipe runs



PHOTO 11	Asbestos-Containing Soffit/Roof edge sealant



PHOTO 12	Asbestos-Containing Exterior exhaust vent sealant

Appendix B

Analytical Results

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

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<http://www.EMSL.com>cinnaslab@EMSL.com

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CustomerPO: 14-00391

ProjectID:

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Received: 02/06/15 9:30 AM
Analysis Date: 2/8/2015
Collected: 2/5/2015

Project: 14-00391 / Omaha VA - Bldg #3 / Omaha, NE

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
01a-Floor Tile 041503212-0001	- 12" VFT blue with black mastic	Blue Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
01a-Mastic 041503212-0001A	- 12" VFT blue with black mastic	Black Non-Fibrous Homogeneous		96% Non-fibrous (other)	4% Chrysotile
01b-Floor Tile 041503212-0002	- 12" VFT blue with black mastic	Blue Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
01b-Mastic 041503212-0002A	- 12" VFT blue with black mastic				Stop Positive (Not Analyzed)
01c-Floor Tile 041503212-0003	- 12" VFT blue with black mastic	Blue Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
01c-Mastic 041503212-0003A	- 12" VFT blue with black mastic				Stop Positive (Not Analyzed)
02a 041503212-0004	- Floor mastic-black	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
02b 041503212-0005	- Floor mastic-black	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
02c 041503212-0006	- Floor mastic-black	Tan/Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Clarissa Turton (10)

Joseph Quiles (36)

Frank Dicrescenzo (28)

Tin Nguyen (17)

Benjamin Ellis, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 02/09/2015 06:20:31

**EMSL Analytical, Inc.**

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CustomerID: AMI50

CustomerPO: 14-00391

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 Received: 02/06/15 9:30 AM
 Analysis Date: 2/8/2015
 Collected: 2/5/2015

Project: 14-00391 / Omaha VA - Bldg #3 / Omaha, NE

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
03a 041503212-0007	- Carpet glue-yellow	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
03b 041503212-0008	- Carpet glue-yellow	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
03c 041503212-0009	- Carpet glue-yellow	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
04a-Cove Base 041503212-0010	- Vinyl wall base (hard)-brown with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
04a-Mastic 041503212-0010A	- Vinyl wall base (hard)-brown with brown mastic	Brown Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
04b-Cove Base 041503212-0011	- Vinyl wall base (hard)-brown with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
04b-Mastic 041503212-0011A	- Vinyl wall base (hard)-brown with brown mastic				Stop Positive (Not Analyzed)
04c-Cove Base 041503212-0012	- Vinyl wall base (hard)-brown with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
04c-Mastic 041503212-0012A	- Vinyl wall base (hard)-brown with brown mastic				Stop Positive (Not Analyzed)

Analyst(s)

Clarissa Turton (10)

Joseph Quiles (36)

Frank Dicrescenzo (28)

Tin Nguyen (17)

Benjamin Ellis, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 02/09/2015 06:20:31

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EMSL Order: 041503212

CustomerID: AMI50

CustomerPO: 14-00391

ProjectID:

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Phone: (402) 397-5001
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 Received: 02/06/15 9:30 AM
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 Collected: 2/5/2015

Project: 14-00391 / Omaha VA - Bldg #3 / Omaha, NE

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
05a-Cove Base 041503212-0013	- Vinyl wall base-brown with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
05a-Mastic 041503212-0013A	- Vinyl wall base-brown with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
05b-Cove Base 041503212-0014	- Vinyl wall base-brown with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
05b-Mastic 041503212-0014A	- Vinyl wall base-brown with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
05c-Cove Base 041503212-0015	- Vinyl wall base-brown with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
05c-Mastic 041503212-0015A	- Vinyl wall base-brown with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
06a-Cove Base 041503212-0016	- Vinyl wall base-black with tan mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
06a-Mastic 041503212-0016A	- Vinyl wall base-black with tan mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Clarissa Turton (10)

Joseph Quiles (36)

Frank Dicrescenzo (28)

Tin Nguyen (17)

Benjamin Ellis, Laboratory Manager
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Project: 14-00391 / Omaha VA - Bldg #3 / Omaha, NE

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
06b-Cove Base 041503212-0017	- Vinyl wall base-black with tan mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
06b-Mastic 041503212-0017A	- Vinyl wall base-black with tan mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
06c-Cove Base 041503212-0018	- Vinyl wall base-black with tan mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
06c-Mastic 041503212-0018A	- Vinyl wall base-black with tan mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
07 041503212-0019	- Sink undercoating-gray	Gray Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
08a 041503212-0020	- Interior door caulk-white	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
08b 041503212-0021	- Interior door caulk-white	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
08c 041503212-0022	- Interior door caulk-white	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Project: 14-00391 / Omaha VA - Bldg #3 / Omaha, NE

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
09a 041503212-0023	- Bathroom fixture caulk-white	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
09b 041503212-0024	- Bathroom fixture caulk-white	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
09c 041503212-0025	- Bathroom fixture caulk-white	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10a 041503212-0026	- Radiator cover caulk-tan	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10b 041503212-0027	- Radiator cover caulk-tan	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10c 041503212-0028	- Radiator cover caulk-tan	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
11a 041503212-0029	- 2x2 ceiling tiles-white	Gray/White Fibrous Homogeneous	50% Cellulose 35% Min. Wool	15% Non-fibrous (other)	None Detected
11b 041503212-0030	- 2x2 ceiling tiles-white	Gray/White Fibrous Homogeneous	50% Cellulose 35% Min. Wool	15% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	% Fibrous	<u>Non-Asbestos</u>		% Type
11c 041503212-0031	- 2x2 ceiling tiles-white	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool		20% Non-fibrous (other)	None Detected
12a 041503212-0032	- 1x1 ceiling tiles-white	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool		20% Non-fibrous (other)	None Detected
12b 041503212-0033	- 1x1 ceiling tiles-white	Gray Fibrous Homogeneous	50% Cellulose 30% Min. Wool		20% Non-fibrous (other)	None Detected
12c 041503212-0034	- 1x1 ceiling tiles-white	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool		20% Non-fibrous (other)	None Detected
13a 041503212-0035	- Tile glue pucks-yellow	Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
13b 041503212-0036	- Tile glue pucks-yellow	Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
13c 041503212-0037	- Tile glue pucks-yellow	Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
14 041503212-0038	- Fire stop-red	Red Non-Fibrous Homogeneous	10% Glass		90% Non-fibrous (other)	None Detected

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Project: 14-00391 / Omaha VA - Bldg #3 / Omaha, NE

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>	
			% Fibrous	% Non-Fibrous	% Type	
15 041503212-0039	- Mortar-gray	Gray Fibrous Heterogeneous		85% Non-fibrous (other)	5% Chrysotile 10% Amosite	
inseparable material attached						
16a-Insulation 041503212-0040	- Ceiling insulation with backing-black	Gray Fibrous Homogeneous	90% Min. Wool	10% Non-fibrous (other)	None Detected	
16a-Backing 041503212-0040A	- Ceiling insulation with backing-black	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected	
16b-Insulation 041503212-0041	- Ceiling insulation with backing-black	Gray Fibrous Homogeneous	95% Min. Wool	5% Non-fibrous (other)	None Detected	
16b-Backing 041503212-0041A	- Ceiling insulation with backing-black	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected	
16c-Insulation 041503212-0042	- Ceiling insulation with backing-black	Gray Fibrous Homogeneous	95% Min. Wool	5% Non-fibrous (other)	None Detected	
16c-Backing 041503212-0042A	- Ceiling insulation with backing-black	Black Non-Fibrous Homogeneous	50% Cellulose	50% Non-fibrous (other)	None Detected	
17a 041503212-0043	- Attic insulation-white	White Fibrous Homogeneous	95% Min. Wool	5% Non-fibrous (other)	None Detected	

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos			Asbestos	
			%	Fibrous	%	Non-Fibrous	%
17b 041503212-0044	- Attic insulation-white	White Fibrous Homogeneous	95%	Min. Wool	5%	Non-fibrous (other)	None Detected
17c 041503212-0045	- Attic insulation-white	White Non-Fibrous Homogeneous	90%	Min. Wool	10%	Non-fibrous (other)	None Detected
18a 041503212-0046	- Pipe insulation seam mastic-white	White Fibrous Homogeneous	40% 10%	Cellulose Glass	50%	Non-fibrous (other)	None Detected
18b 041503212-0047	- Pipe insulation seam mastic-white	White Fibrous Homogeneous	40% 10%	Cellulose Glass	50%	Non-fibrous (other)	None Detected
18c 041503212-0048	- Pipe insulation seam mastic-white	White Fibrous Homogeneous	30% 8%	Cellulose Glass	62%	Non-fibrous (other)	None Detected
19a 041503212-0049	- Mudded fittings-tan	White Fibrous Homogeneous			91%	Non-fibrous (other)	4% Amosite 5% Chrysotile
19b 041503212-0050	- Mudded fittings-tan						Stop Positive (Not Analyzed)
19c 041503212-0051	- Mudded fittings-tan						Stop Positive (Not Analyzed)
20a 041503212-0052	- Pipe insulation-gray	Gray Fibrous Homogeneous			40%	Non-fibrous (other)	60% Chrysotile

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Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
20b 041503212-0053	- Pipe insulation-gray				Stop Positive (Not Analyzed)
20c 041503212-0054	- Pipe insulation-gray				Stop Positive (Not Analyzed)
21a 041503212-0055	- Pipe insulation-white	White Fibrous Homogeneous		50% Non-fibrous (other)	30% Amosite 20% Chrysotile
21b 041503212-0056	- Pipe insulation-white				Stop Positive (Not Analyzed)
21c 041503212-0057	- Pipe insulation-white				Stop Positive (Not Analyzed)
22a 041503212-0058	- Mudded fittings-white	White Fibrous Homogeneous		60% Non-fibrous (other)	25% Amosite 15% Chrysotile
22b 041503212-0059	- Mudded fittings-white				Stop Positive (Not Analyzed)
22c 041503212-0060	- Mudded fittings-white				Stop Positive (Not Analyzed)
23a-Sheetrock 041503212-0061	- Sheetrock and joint compound-white	Brown/Gray Fibrous Homogeneous	7% Glass 15% Cellulose	78% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	%	<u>Non-Asbestos</u>		<u>Asbestos</u>
				Fibrous	Non-Fibrous	% Type
23a-Joint Compound 041503212-0061A	- Sheetrock and joint compound-white	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
23b-Sheetrock 041503212-0062	- Sheetrock and joint compound-white	Brown/Gray Fibrous Homogeneous	15% 8%	Cellulose Glass	77% Non-fibrous (other)	None Detected
23b-Joint Compound 041503212-0062A	- Sheetrock and joint compound-white	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
23c-Sheetrock 041503212-0063	- Sheetrock and joint compound-white	Brown/White Fibrous Homogeneous	15% 8%	Cellulose Glass	77% Non-fibrous (other)	None Detected
23c-Joint Compound 041503212-0063A	- Sheetrock and joint compound-white	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
24a 041503212-0064	- Sheetrock behind plaster	Brown/Gray Fibrous Homogeneous	20%	Cellulose	80% Non-fibrous (other)	None Detected
24b 041503212-0065	- Sheetrock behind plaster	Brown/Gray Fibrous Homogeneous	20%	Cellulose	80% Non-fibrous (other)	None Detected
24c 041503212-0066	- Sheetrock behind plaster	Brown/White Fibrous Homogeneous	15%	Cellulose	85% Non-fibrous (other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 02/09/2015 06:20:31

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

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<http://www.EMSL.com>cinnaslab@EMSL.com

EMSL Order: 041503212

CustomerID: AMI50

CustomerPO: 14-00391

ProjectID:

Attn: **Tom Manion**
AMI Group, Inc.
8802 South 135th Street
Suite 100
Omaha, NE 68138-6511

Phone: (402) 397-5001
 Fax: (402) 397-3313
 Received: 02/06/15 9:30 AM
 Analysis Date: 2/8/2015
 Collected: 2/5/2015

Project: 14-00391 / Omaha VA - Bldg #3 / Omaha, NE

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
25a 041503212-0067	- Plaster top coat-white	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
25b 041503212-0068	- Plaster top coat-white	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
25c 041503212-0069	- Plaster top coat-white	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
25d 041503212-0070	- Plaster top coat-white	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
25e 041503212-0071	- Plaster top coat-white				Insufficient Material
25f 041503212-0072	- Plaster top coat-white	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
25g 041503212-0073	- Plaster top coat-white	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
26a 041503212-0074	- Plaster bottom coat-gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
26b 041503212-0075	- Plaster bottom coat-gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Clarissa Turton (10)

Joseph Quiles (36)

Frank Dicrescenzo (28)

Tin Nguyen (17)

Benjamin Ellis, Laboratory Manager
or other approved signatory

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Project: 14-00391 / Omaha VA - Bldg #3 / Omaha, NE

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
26c 041503212-0076	- Plaster bottom coat-gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
26d 041503212-0077	- Plaster bottom coat-gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
26e 041503212-0078	- Plaster bottom coat-gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
26f 041503212-0079	- Plaster bottom coat-gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
26g 041503212-0080	- Plaster bottom coat-gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
27a 041503212-0081	- Window caulk-black	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
27b 041503212-0082	- Window caulk-black	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
27c 041503212-0083	- Window caulk-black	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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Project: 14-00391 / Omaha VA - Bldg #3 / Omaha, NE

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
28a 041503212-0084	- Soil-crawlspace	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
28b 041503212-0085	- Soil-crawlspace	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Recommend TEM					
28c 041503212-0086	- Soil-crawlspace	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile

Analyst(s)

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EMSL Order: 041504262

CustomerID: AMI50

CustomerPO: 14-00391

ProjectID:

Attn: **Tom Manion**
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Phone: (402) 397-5001
Fax: (402) 397-3313
Received: 02/16/15 9:00 AM
Analysis Date: 2/17/2015
Collected: 2/13/2015

Project: 14-00391 / Omaha VA-Bldg #3 / Omaha, NE

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
29a 041504262-0001	- Rubber roof sealant-gray	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
29b 041504262-0002	- Rubber roof sealant-gray	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
29c 041504262-0003	- Rubber roof sealant-gray	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
30a 041504262-0004	- Soffit/roof edge sealant-tan	Tan/White Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
30b 041504262-0005	- Soffit/roof edge sealant-tan				Stop Positive (Not Analyzed)
30c 041504262-0006	- Soffit/roof edge sealant-tan				Stop Positive (Not Analyzed)
31a 041504262-0007	- Roof flashing sealant-gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
31b 041504262-0008	- Roof flashing sealant-gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
31c 041504262-0009	- Roof flashing sealant-gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Andrew Castellano (5)

Thomas Schwab (12)

Benjamin Ellis, Laboratory Manager
or other approved signatory

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Initial report from 02/17/2015 14:48:19

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EMSL Order: 041504262

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CustomerPO: 14-00391

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Analysis Date: 2/17/2015
Collected: 2/13/2015

Project: 14-00391 / Omaha VA-Bldg #3 / Omaha, NE

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
32a 041504262-0010	- Exterior expansion caulk-gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
32b 041504262-0011	- Exterior expansion caulk-gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
32c 041504262-0012	- Exterior expansion caulk-gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
33a 041504262-0013	- Window/door caulk-brown	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
33b 041504262-0014	- Window/door caulk-brown	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
33c 041504262-0015	- Window/door caulk-brown	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
34a 041504262-0016	- Exterior exhaust vent sealant-white	White Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
34b 041504262-0017	- Exterior exhaust vent sealant-white				Stop Positive (Not Analyzed)
34c 041504262-0018	- Exterior exhaust vent sealant-white				Stop Positive (Not Analyzed)

Analyst(s)

Andrew Castellano (5)

Thomas Schwab (12)

Benjamin Ellis, Laboratory Manager
or other approved signatory

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Fax: (402) 397-3313
Received: 02/16/15 9:00 AM
Analysis Date: 2/17/2015
Collected: 2/13/2015

Project: 14-00391 / Omaha VA-Bldg #3 / Omaha, NE

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
35a 041504262-0019	- Shingles-black	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (other)	None Detected
35b 041504262-0020	- Shingles-black	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
35c 041504262-0021	- Shingles-black	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (other)	None Detected

Analyst(s)

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Initial report from 02/17/2015 14:48:19

Date: Feb 4, 2015

XRF Lead Sampling Summary
OMAHA VA – Building #3
Omaha, NE

AMI Environmental
8802 S 135th Street
Omaha, NE 68138

AMI Project #: 14-00391

Note:

-Bold readings of 1.0 mg/cm² or higher are to be considered positive for the presence of lead-based paint

Sample #	Location	Substrate	Color	Application	Reading (mg/cm ²)	Results
1	Calibration	Wood	--	Unpainted	0.2	--
2	Calibration	Wood	--	Unpainted	-0.0	--
3	Calibration	Wood	--	Unpainted	-0.0	--
4	Calibration	Wood	Yellow	Paint	1.0	+
5	Calibration	Wood	Yellow	Paint	1.0	+
6	Calibration	Wood	Yellow	Paint	1.0	+
7	Basement, Room B01, West Wall	Concrete Block	White	Paint	0.0	--
8	Basement, Room B01, East Wall	Concrete Block	White	Paint	-0.2	--
9	Basement, Room B01, Ceiling	Plaster	White	Paint	-0.2	--
10	Basement, Room B01, Conduit	Metal	White	Paint	0.1	--
11	Basement, Room B01, West Door	Metal	Black	Paint	-0.1	--
12	Basement, Room B01, West Door Frame	Metal	Black	Paint	-0.6	--
13	Basement, Room B01, West Wall Junction Box	Metal	White	Paint	-0.3	--
14	Basement, Room B01, North Crawlspace Door Frame	Wood	White	Paint	-0.1	--
15	Basement, Room B01, West Wall Radiator	Metal	White	Paint	0.0	--
16	Basement, Room B01, West Window Frame	Metal	Black	Paint	-0.0	--
17	Basement, Room B02, North Door	Wood	White	Paint	-0.1	--
18	Basement, Room B02, North Door Frame	Wood	White	Paint	-0.0	--
19	Basement, Room B02, Horizontal Beam	Metal	White	Paint	-0.6	--
20	Basement, Room B02, Floor Joist	Wood	White	Paint	0.1	--
21	Basement, Room B02, South Wall	Concrete Block	White	Paint	-0.0	--
22	Basement, Room B02, North Wall	Plaster	White	Paint	0.3	--
23	Basement, Room B02, Floor	Concrete	Grey	Paint	0.1	--
24	Basement, Room B02, Floor Support	Metal	Grey	Paint	1.0	+
25	Basement, Room B02, West Wall Radiator	Metal	White	Paint	1.0	+
26	Basement, Room B02, West Wall	Brick	White	Paint	-0.2	--
27	Basement, Stairwell, Handrail	Metal	Grey	Paint	0.1	--
28	Basement, Stairwell Center Landing, Wall Base	Wood	White	Paint	-0.0	--
29	Basement, Stairwell Center Landing, Window Seal	Wood	White	Paint	0.1	--
30	Basement, Stairwell Center Landing, Wains Coat	Wood	White	Paint	-0.0	--
31	Basement, Stairwell Center Landing, Ceiling	Plaster	White	Paint	0.0	--

Date: Feb 4, 2015

AMI Project #: 14-00391

XRF Lead Sampling Summary
OMAHA VA – Building #3
Omaha, NE

AMI Environmental
8802 S 135th Street
Omaha, NE 68138

Sample #	Location	Substrate	Color	Application	Reading (mg/cm ²)	Results
32	Basement, Stairwell, Door	Wood	White	Paint	-0.1	--
33	Basement, Stairwell, Door Frame	Wood	White	Paint	-0.1	--
34	Main Floor, Room 100B, North Wall	Plaster	White	Paint	-0.1	--
35	Main Floor, Room 100B, Base Board	Wood	White	Paint	-0.0	--
36	Main Floor, Room 100B, Radiator Cover	Metal	White	Paint	0.2	--
37	Main Floor, Room 100B, Door Frame	Wood	White	Paint	-0.1	--
38	Main Floor, Room 100C, Sliding Door	Wood	White	Paint	0.0	--
39	Main Floor, Room 100C, Door Frame	Wood	White	Paint	0.2	--
40	Main Floor, Room 100C, Closet Shelve	Wood	White	Paint	0.1	--
41	Main Floor, Room 100C, Closet Cleat	Wood	White	Paint	0.1	--
42	Main Floor, Room 100A, Handrail	Wood	White	Paint	-0.1	--
43	Main Floor, Room 100A, Stair Stringer	Wood	White	Paint	0.1	--
44	Main Floor, Room 100, West Window Frame	Wood	Brown	Paint	-0.1	--
45	Main Floor, Room 100, West Wall	Plaster	White	Paint	-0.1	--
46	Main Floor, Room 103W, Window Seal	Wood	White	Paint	-0.0	--
47	Main Floor, Room 103W, Window Apron	Wood	White	Paint	-0.2	--
48	Main Floor, Room 103, Ceiling	Drywall	White	Paint	-0.0	--
49	Main Floor, Room 107, East Window Frame	Wood	White	Paint	-0.1	--
50	Main Floor, Room 107, South Wall	Drywall	White	Paint	0.0	--
51	Main Floor, Room 105E, Radiator Cover	Metal	White	Paint	0.0	--
52	Main Floor, Room 105E, Window Seal	Wood	White	Paint	-0.1	--
53	Main Floor, Room 101A, North Wall	Plaster	White	Paint	0.1	--
54	Main Floor, Room 101A, Door Frame	Wood	White	Paint	1.9	+
55	Main Floor, Room 101A, Door	Wood	White	Paint	0.2	--
56	2 nd Floor, Room 200, East Wall	Drywall	White	Paint	-0.1	--
57	2 nd Floor, Room 201, Door Frame	Metal	White	Paint	-0.2	--
58	2 nd Floor, Room 20B, Closet Shelve	Wood	White	Paint	-0.1	--
59	2 nd Floor, Room 20B, Closet Cleat	Wood	White	Paint	0.3	--
60	2 nd Floor, Room 202, East Radiator Cover	Metal	White	Paint	-0.2	--
61	2 nd Floor, Room 202, East Window Apron	Wood	White	Paint	-0.0	--
62	2 nd Floor, Room 205, South Wall	Drywall	White	Paint	-0.1	--
63	2 nd Floor, Room 205, East Wall Base	Wood	White	Paint	0.1	--
64	2 nd Floor, Room 205 Bathroom, West Wall (textured)	Plaster	White	Paint	-0.2	--
65	2 nd Floor, Room 205 Bathroom, Toilet	Porcelain	White	Glaze	-0.0	--

Date: Feb 4, 2015

XRF Lead Sampling Summary
OMAHA VA – Building #3
Omaha, NE

AMI Environmental
8802 S 135th Street
Omaha, NE 68138

AMI Project #: 14-00391

Sample #	Location	Substrate	Color	Application	Reading (mg/cm ²)	Results
66	2nd Floor, Room 205 Bathroom, Sink	Porcelain	White	Glaze	8.3	+
67	2nd Floor, Room 205 Bathroom, Bathtub	Porcelain	White	Glaze	+9.9	+
68	2nd Floor, Room 205 Bathroom, East Wall (textured)	Ceramic Tile	White	Paint	1.7	+
69	2 nd Floor, Room 205 Bathroom, Floor Tile	Ceramic Tile	Multiple Brown	Glaze	-0.0	--
70	2nd Floor, Room 201 Bathroom, Toilet	Porcelain	White	Glaze	1.9	+
71	2 nd Floor, Room 201 Bathroom, Sink	Porcelain	White	Glaze	-0.2	--
72	2nd Floor, Room 201 Bathroom, Bathtub	Porcelain	White	Glaze	+9.9	+
73	2nd Floor, Room 201 Bathroom, Wall Tile (textured)	Ceramic Tile	White	Paint	2.2	+
74	2nd Floor, Room 201 Bathroom, Radiator (textured)	Metal	White	Paint	1.0	+
75	2 nd Floor, Room 205A Bathroom, Radiator (textured)	Metal	White	Paint	-0.0	--
76	2 nd Floor, Room 205, Attic Opening	Wood	White	Paint	0.0	--
77	2 nd Floor, Room 200, Fan Opening	Metal	White	Paint	0.0	--
78	Main Floor, Room 104A Bathroom, Sink	Porcelain	White	Glaze	-0.2	--
79	Main Floor, Room 104A Bathroom, Toilet	Porcelain	White	Glaze	-0.2	--
80	Main Floor, Room 104A Bathroom, West Wall	Ceramic Tile	Blue	Glaze	0.1	--
81	Main Floor, Room 104A Bathroom, 1 inch Floor Tile	Ceramic Tile	Blue	Glaze	0.1	--
82	Main Floor, Room 104A Bathroom, Radiator	Metal	White	Paint	0.0	--
83	Main Floor, Room 104A Bathroom, Door Frame	Metal	White	Paint	-0.2	--
84	Main Floor, Room 106 Bathroom, Sink	Porcelain	White	Glaze	-0.3	--
85	Main Floor, Room 106 Bathroom, Toilet	Porcelain	White	Glaze	0.2	--
86	Main Floor, Room 106 Bathroom, Wall Tile (textured)	Ceramic Tile	White	Glaze	2.6	+
87	Main Floor, Room 106 Bathroom, Floor Tile	Ceramic Tile	Multiple Brown	Glaze	0.1	--
88	Main Floor, Room 106 Bathroom, Ceiling	Plaster	White	Paint	0.1	--
89	Calibration	Wood	--	Unpainted	0.0	--
90	Calibration	Wood	--	Unpainted	-0.0	--
91	Calibration	Wood	--	Unpainted	-0.1	--
92	Calibration	Wood	Yellow	Paint	1.0	+
93	Calibration	Wood	Yellow	Paint	1.0	+
94	Calibration	Wood	Yellow	Paint	1.0	+

Date: Feb 4, 2015

XRF Lead Sampling Summary
OMAHA VA – Building #3
Omaha, NE

AMI Environmental
8802 S 135th Street
Omaha, NE 68138

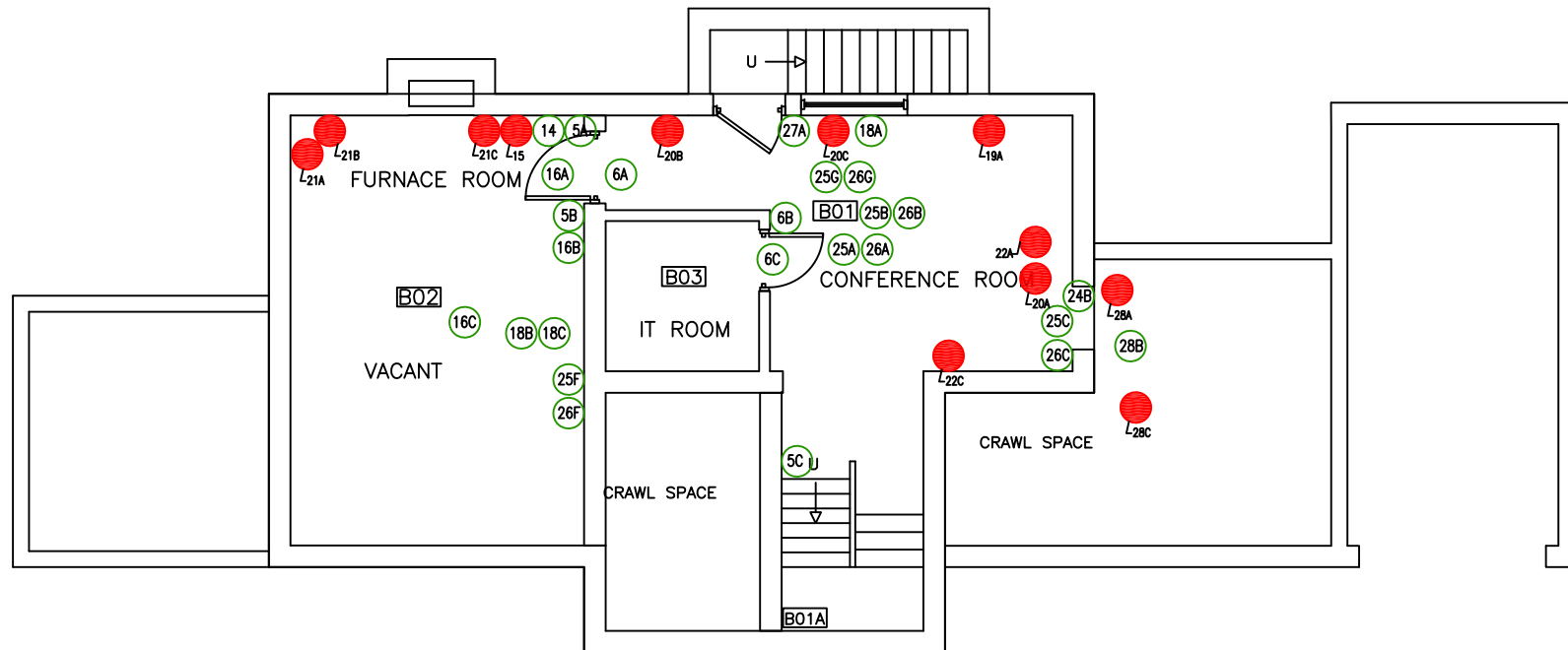
Note:

-Bold readings of 1.0 mg/cm² or higher are to be considered positive for the presence of lead-based paint

Sample #	Location	Substrate	Color	Application	Reading (mg/cm ²)	Results
1E	Calibration	Wood	--	Unpainted	-0.0	--
2E	Calibration	Wood	--	Unpainted	0.1	--
3E	Calibration	Wood	--	Unpainted	0.1	--
4E	Calibration	Wood	Yellow	Paint	1.0	+
5E	Calibration	Wood	Yellow	Paint	1.0	+
6E	Calibration	Wood	Yellow	Paint	1.0	+
7E	Exterior, East handrail	Metal	White	Paint	0.2	--
8E	Exterior, East parking curbs	Concrete	Blue	Paint	-0.0	--
9E	Exterior, NE gutters and downspout	Metal	Gray	Paint	-0.1	--
10E	Exterior, West handrails	Metal	White	Paint	5.1	--
11E	Exterior, vent on West wall	Metal	White	Paint	2.9	--
12E	Exterior, West window lintel	Metal	White	Paint	62.	--
13E	Exterior, Wood panel on West wall	Wood	White	Paint	0.2	--
14E	Exterior, West window frame	Wood	Brown	Paint	-0.2	--
15E	Exterior, West door frame	Metal	Brown	Paint	-0.2	--
16E	Exterior, SE wood trim and soffit under new vinyl	Metal	White	Paint	3.0	--
17E	Calibration	Wood	--	Unpainted	0.0	--
18E	Calibration	Wood	--	Unpainted	0.2	--
19E	Calibration	Wood	--	Unpainted	0.1	--
20E	Calibration	Wood	Yellow	Paint	1.0	--
21E	Calibration	Wood	Yellow	Paint	1.0	--
22E	Calibration	Wood	Yellow	Paint	1.0	--

Appendix C

CAD Drawings



KEY




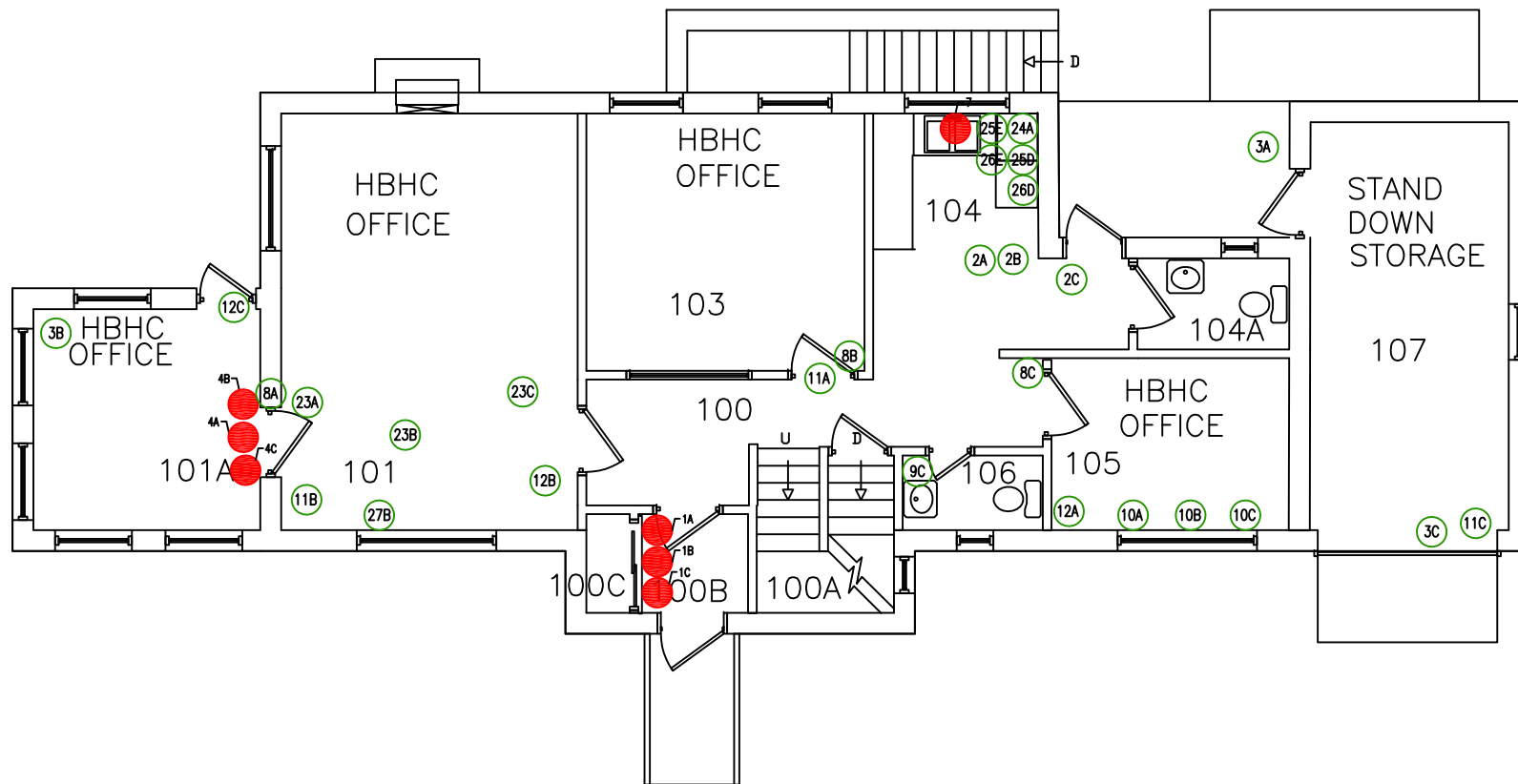
NEGATIVE ASBESTOS
SAMPLE



POSITIVE ASBESTOS
SAMPLE

POSITIVE ASBESTOS CONTAINING MATERIAL IS CLASSIFIED AS BEING GREATER THAN 1% ASBESTOS.
(Positive asbestos containing material in California is greater than 0.1% asbestos)

	<h1>AMI</h1>		PROJECT NUMBER 14-00391	DRAWING TITLE ENVIRONMENTAL ASSESSMENT FISHER HOUSE – BUILDING #3 OMAHA, NE
			SHEET A1	
	Environmental		DATE 03-12-2015	
			DWN BY M. HAYES	
8802 S. 135th St SUITE 100 OMAHA NE. 68138	PH (402) 397-5001		SCALE NOT TO SCALE	BASEMENT ASBESTOS SAMPLE LOCATIONS
	FAX (402) 397-3313			



KEY




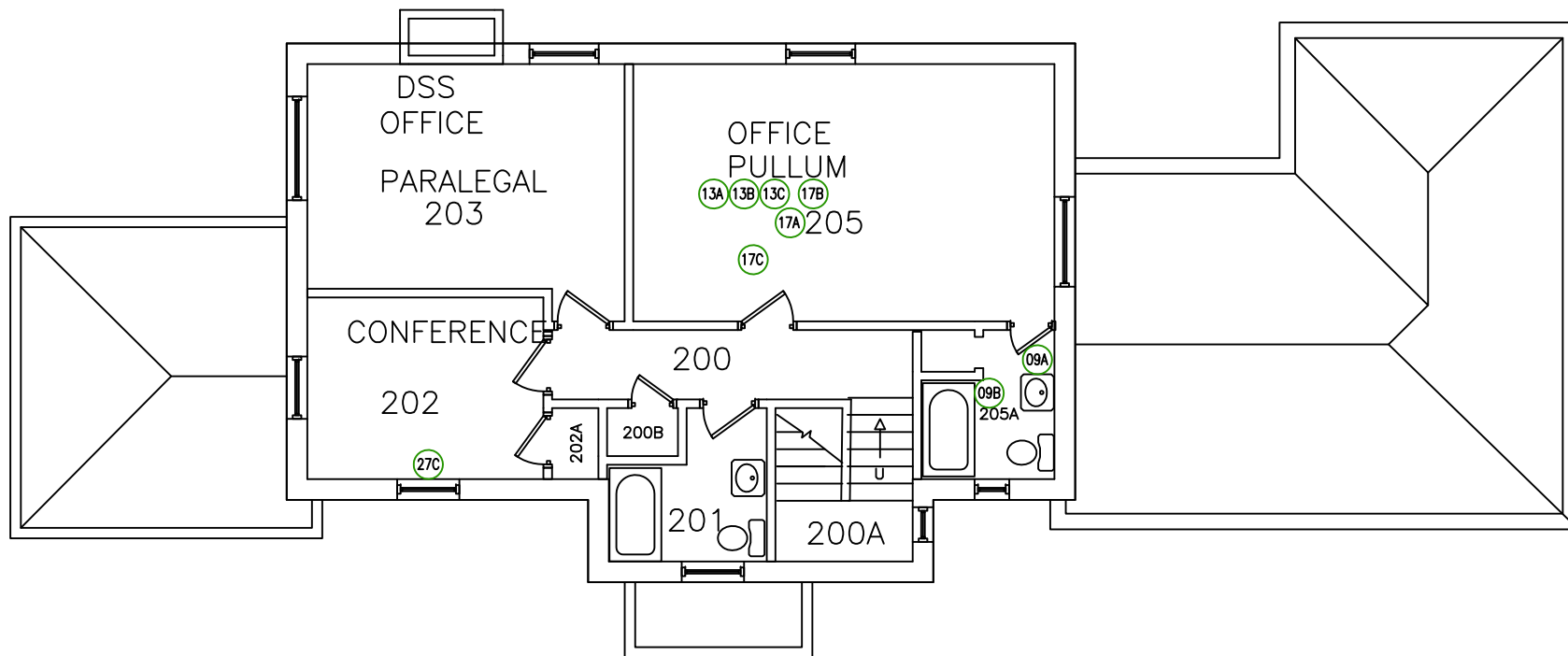
NEGATIVE ASBESTOS
SAMPLE



POSITIVE ASBESTOS
SAMPLE

POSITIVE ASBESTOS CONTAINING MATERIAL IS CLASSIFIED AS BEING GREATER THAN 1% ASBESTOS.
(Positive asbestos containing material in California is greater than 0.1% asbestos)

	AMI Environmental	PROJECT NUMBER 14-00391	DRAWING TITLE ENVIRONMENTAL ASSESSMENT FISHER HOUSE - BUILDING #3 OMAHA, NE FIRST FLOOR ASBESTOS SAMPLE LOCATIONS
		SHEET A2	
		DATE 03-12-2015	
		DWN BY M. HAYES	
8802 S. 135th St. SUITE 100 OMAHA NE, 68138	PH (402) 397-5001 FAX (402) 397-3313	SCALE NOT TO SCALE	



KEY



NEGATIVE ASBESTOS
SAMPLE



POSITIVE ASBESTOS
SAMPLE

POSITIVE ASBESTOS CONTAINING MATERIAL IS CLASSIFIED AS BEING GREATER THAN 1% ASBESTOS.
(Positive asbestos containing material in California is greater than 0.1% asbestos)



AMI

Environmental

8802 S. 135th St.
SUITE 100
OMAHA NE, 68138

PH (402) 397-5001
FAX (402) 397-3313

PROJECT NUMBER
14-00391

SHEET
A3

DATE
03-12-2015

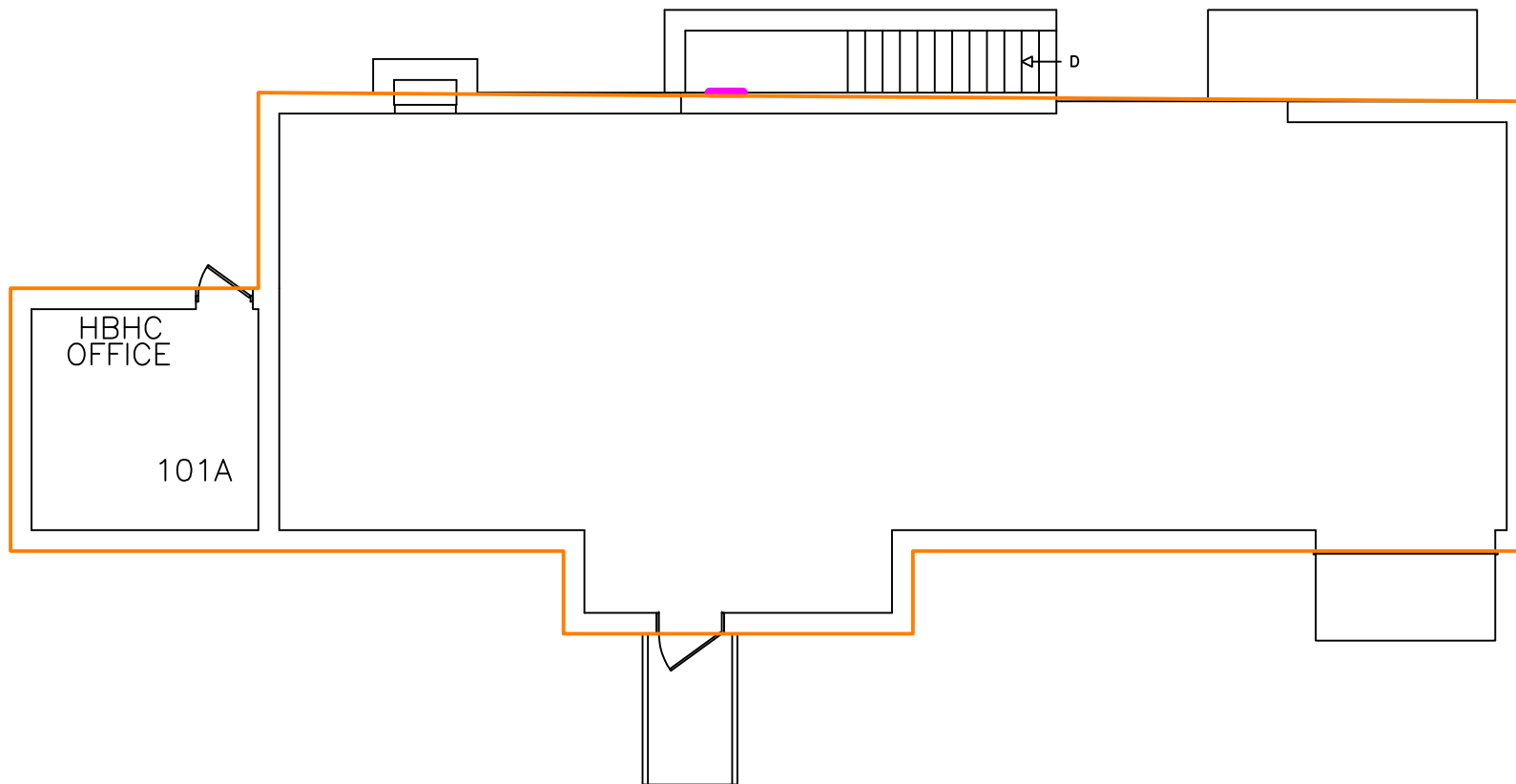
DWN BY
M. HAYES

SCALE
NOT TO SCALE

DRAWING TITLE

ENVIRONMENTAL ASSESSMENT
FISHER HOUSE - BUILDING #3
OMAHA, NE

SECOND FLOOR ASBESTOS SAMPLE LOCATIONS



KEY



ASBESTOS-CONTAINING, NON-FRIABLE, CATEGORY I, EXHAUST
VENT SEALANT, WHITE



ASBESTOS-CONTAINING, NON-FRIABLE, CATEGORY I, SOFFIT / ROOF
EDGE SEALANT, TAN

POSITIVE ASBESTOS CONTAINING MATERIAL IS CLASSIFIED AS BEING GREATER THAN 1% ASBESTOS.
(Positive asbestos containing material in California is greater than 0.1% asbestos)



AMI

Environmental

8802 S. 135th St.
SUITE 100
OMAHA NE, 68138

PH (402) 397-5001
FAX (402) 397-3313

PROJECT NUMBER
14-00391

SHEET
A4

DATE
03-12-2015

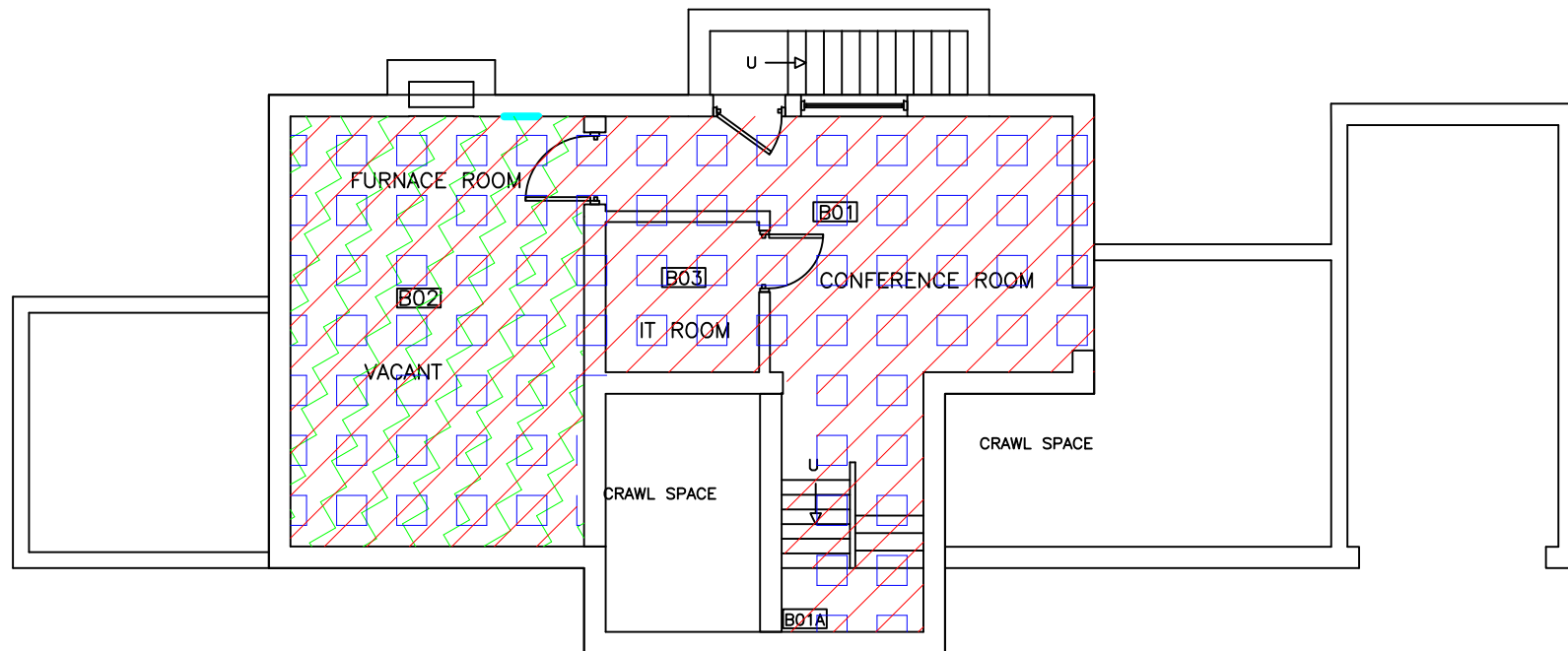
DWN BY
M. HAYES

SCALE
NOT TO SCALE





DRAWING TITLE

ENVIRONMENTAL ASSESSMENT
FISHER HOUSE - BUILDING #3
OMAHA, NE


EXTERIOR ASBESTOS MATERIAL LOCATIONS

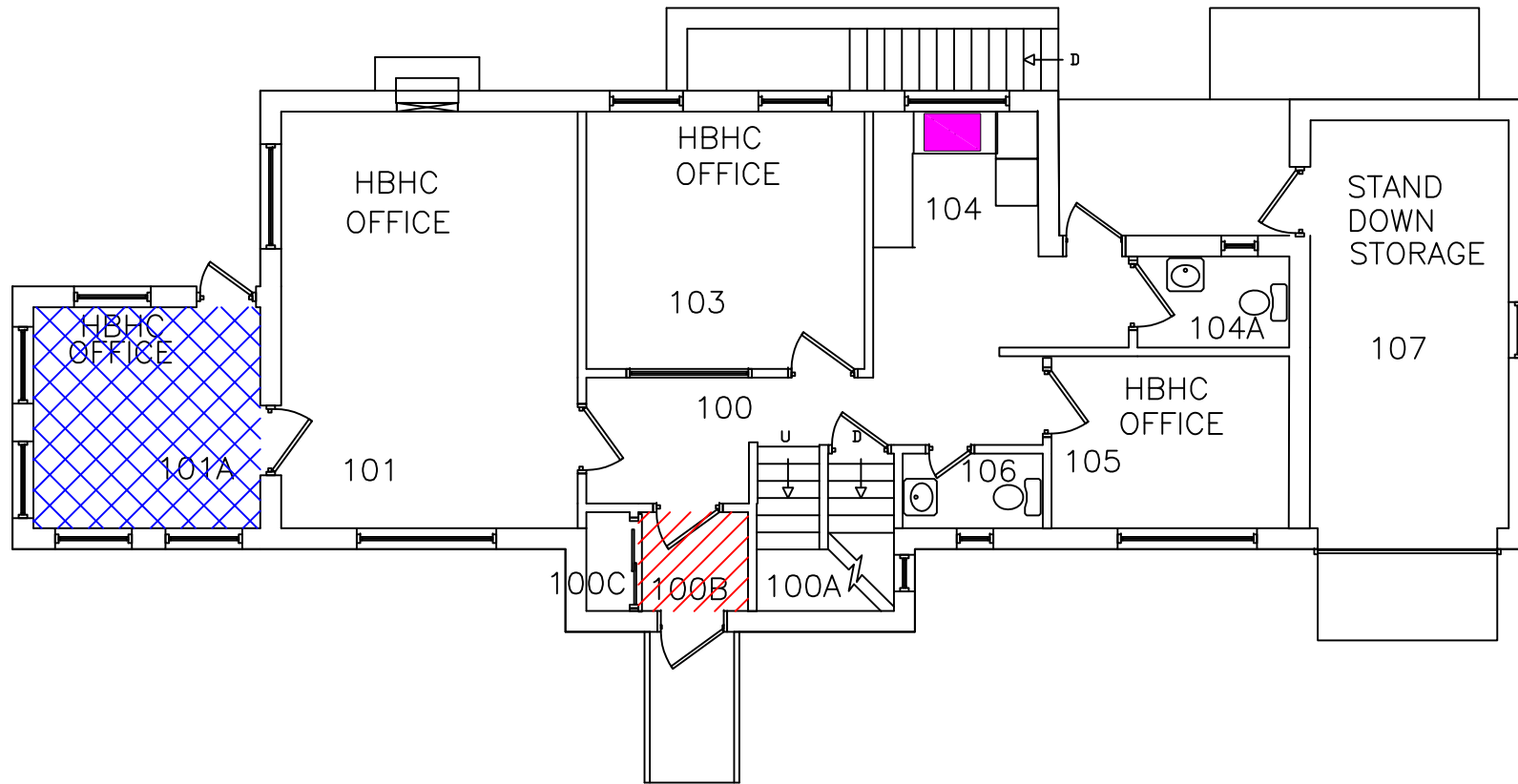


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


-  ASBESTOS-CONTAINING, NON-FRIABLE, CATEGORY II, MORTAR, GREY
-  ASBESTOS-CONTAINING, FRIABLE, MECHANICAL FITTING INSULATION ASSOCIATED WITH FIBERGLASS PIPE RUNS, TAN
-  ASBESTOS-CONTAINING, FRIABLE, PIPE INSULATION - AIR CELL TYPE, GREY
-  ASBESTOS-CONTAINING, FRIABLE, PIPE INSULATION - MAG TYPE, WHITE

POSITIVE ASBESTOS CONTAINING MATERIAL IS CLASSIFIED AS BEING GREATER THAN 1% ASBESTOS.
(Positive asbestos containing material in California is greater than 0.1% asbestos)

	AMI Environmental	PROJECT NUMBER 14-00391	DRAWING TITLE ENVIRONMENTAL ASSESSMENT FISHER HOUSE – BUILDING #3 OMAHA, NE
		SHEET A5	
		DATE 03-12-2015	
		DWN BY M. HAYES	
8802 S. 135th St. SUITE 100 OMAHA NE, 68138	PH (402) 397-5001 FAX (402) 397-3313	SCALE NOT TO SCALE	BASEMENT ASBESTOS MATERIAL LOCATIONS



KEY

-  ASBESTOS-CONTAINING, NON-FRIABLE, CATEGORY I, SINK UNDERCOATING, GREY
-  ASBESTOS-CONTAINING, NON-FRIABLE, CATEGORY I, MASTIC, BLACK, UNDER NON-ASBESTOS CONTAINING FLOOR TILE, BLUE
-  ASBESTOS-CONTAINING, NON-FRIABLE, CATEGORY I, MASTIC, BROWN, UNDER NON-ASBESTOS CONTAINING WALL BASE

POSITIVE ASBESTOS CONTAINING MATERIAL IS CLASSIFIED AS BEING GREATER THAN 1% ASBESTOS.
(Positive asbestos containing material in California is greater than 0.1% asbestos)



AMI

Environmental

8802 S. 135th St.
SUITE 100
OMAHA NE, 68138

PH (402) 397-5001
FAX (402) 397-3313

PROJECT NUMBER
14-00391

SHEET
A6

DATE
03-12-2015

DWN BY
M. HAYES

SCALE
NOT TO SCALE

DRAWING TITLE

ENVIRONMENTAL ASSESSMENT
FISHER HOUSE - BUILDING #3
OMAHA, NE

FIRST FLOOR ASBESTOS MATERIAL LOCATIONS



Appendix D
Training Certificates

State of Nebraska

Department of Health and Human Services
Division of Public Health

License Type: Asbestos Inspector

License No. 845 Status: Active

Thomas P Manion
AMI Environmental
8802 South 135th Suite 100
Omaha NE 68138

Expires: 10/30/2015

John L. Manion
Administrator, Licensure Unit

Signature



M·E·T·A
Mayhew Environmental Training Associates
INCORPORATED

Certificate # ME13300B6E93B3451

Thomas Manion

has on 1/13/2015 in Omaha, NE completed the requirements for asbestos accreditation under TSCA Title II and the State of Nebraska Asbestos Regulations and Statutes

4-hr. Asbestos Building Inspector Refresher

as approved by NE & the US EPA under 40 CFR 763 (AHERA) from 1/13/2015 to 1/13/2015 and passed the associated exam on 1/13/2015 with a score of at least 70%



P.O. Box 4693

SSN: XXX-XX-9339

Expiration: 1/13/2016

- Lawrence, KS. 66047

- 800.444.6382

www.metaenvironmental.net

Thomas Mayhew
Instructor

Thomas Mayhew
President