January 31, 2019

Ms. Kathie Bailey
Snowy Mountain Development Corporation c/o
Central Montana Brownfields Coalition
613 NE Main
Lewistown, Montana 59457

Delivered via email smdcdist6@hotmail.com

SUBJECT: Supplemental Asbestos and Lead-Based Paint Report
Former Livingston Memorial Hospital
504 South 13th Street, Livingston, Montana
Tetra Tech Project Number: 117-8292002

Dear Ms. Bailey:

This Supplemental Asbestos and Lead-Based Paint Report (Report) was prepared for the Central Montana Brownfields Coalition (CMBC). This asbestos project was funded by a U.S. Environmental Protection Agency (EPA) Brownfields Revolving Loan Fund (RLF). Tetra Tech was retained by CMBC to perform Qualified Environmental Professional (QEP) services for the duration of cleanup at the Former Livingston Memorial Hospital.

On August 22, 2018, August 28, 2018 and December 14 through 19, 2018 Tetra Tech conducted a supplemental asbestos and lead base paint (LBP) inspection services for the above referenced building. This inspection was conducted in accordance with the findings presented in the *NESAHP Asbestos Renovation Survey dated March 7, 2016*, completed by Northern Industrial Hygiene of Billings, Montana and *Phase II Environmental Site Assessment dated May 25, 2018*, completed by Weston Solutions of Lakewood, Colorado. Based on correspondence with you prior to commencement of the project, Tetra Tech was instructed to conduct a supplemental inspection for asbestos-containing materials (ACM) and lead based paint (LBP) on the Former Livingston Memorial Hospital. Details of our supplemental inspection are provided below.

Asbestos Inspection

The supplemental ACM inspection was conducted in accordance with the Administrative Rules of Montana 17.74.354, using the currently recognized standard protocol developed under the National Emission Standards for Hazardous Air Pollutants (NESHAP) and the Asbestos Hazard Emergency Response Act (AHERA), as administered by the State of Montana Department of Environmental Quality (MDEQ).

Asbestos inspection services were conducted based on the findings generated in the *NESAHP Asbestos Renovation Survey dated March 7, 2016 and Phase II Environmental Site Assessment dated May 25, 2018*, provided in Attachment A of this report. These documents are incorporated in the findings generated within this report.

Mr. Roger Herman, Jr., Mr. Cody Knowlton, and Mr. Daniel Lawrence of Tetra Tech, MDEQ Accredited Asbestos Inspectors, collected additional samples of suspect ACM to meet the requirements of MDEQ. Their Inspector Accreditation Certifications are presented in Attachment B.

Tetra Tech
7100 Commercial Avenue, Suite 4, Billings, MT 59101
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The additional bulk samples were shipped, along with completed chain-of-custody documentation, to Crisp Analytical LLC of Carrollton, Texas for the analysis of asbestos fibers, using U.S. Environmental Protection Agency (EPA) Method 600/R4-93-116 (polarized light microscopy). A copy of the laboratory analytical reports is contained in Attachment C.

A summary of the ACMs identified to contain greater than 1% asbestos that remains on the project site are presented in Table 1. Approximate ACM locations are presented on Figures 1 through 4.

Table 1
Summary of Asbestos-Containing Materials
Former Livingston Hospital
Livingston, Montana

HA Number	Material Description	Percent Asbestos	Material Type	NESHAP Category
Northern Industrial Hygiene - 2016 Inspection				
M8.1	Grey and White Window Caulk	8% Chrysotile	Miscellaneous	Category II Non-Friable
M8.2	White Window Glazing	4% Chrysotile	Miscellaneous	Category II Non-Friable
M8.3	White Window Caulk	12% Chrysotile	Miscellaneous	Category II Non-Friable
Tetra Tech - 2018 Inspection				
LH-M2.1	Silver Surfaced Black Tar Roof	3% Chrysotile	Miscellaneous	Category I Non-Friable

HA Number: Homogeneous Area Number
NESHAP: National Emission Standard for Hazardous Air Pollutants

In accordance with state and federal regulations pertaining to asbestos, the ACMs identified in Table 1 are required to be abated prior to disturbance. The ACMs are required to be removed by a licensed asbestos abatement contractor using appropriate asbestos abatement methods and procedures in accordance with applicable state and federal regulations. Following the completion of asbestos abatement, a visual inspection and asbestos air clearance need to be conducted. Any contractor preparing to bid or perform work on the site should be informed of the potential presence of ACMs. Contractors should also be informed of compliance requirements under current state and federal regulations.

The following ACMs identified previously from the site were abated by Schroder Contracting, Inc. of Billings, Montana on November 22 through December 23, 2018.

Northern Industrial Hygiene 2016 Inspection

- Paper Debris located in East Crawlspace (D-1)
- White Paper Debris located in Laundry Crawlspace (D-3)
- Brown Paper Debris located in Laundry Crawlspace (D-4)
- Brown and White Paper Debris located in Dining Area Crawlspace (D-5)
- Magnesia Debris located in Dining Area Crawlspace (D-6)
- Vinyl Sheet Flooring located in Room 023 (F1.1)

- Mastic associated with Non-Asbestos containing Purple Marbled pattern 12-inch by 12-inch vinyl floor tile located in Rooms 101, 107, and 204 (F2.6)
- Mastic associated Non-Asbestos containing with Ivory and Tan Marbled 12-inch by 12-inch vinyl floor tile located in Rooms 133 and 138 (F2.8)
- Mastic associated with Non-Asbestos containing Off-White and Tan Marbled 12-inch by 12-inch vinyl floor tile located in Rooms 145, 163, and 174 (F2.11)
- Rose Marbled 12-inch by 12-inch vinyl floor tile and associated mastic located in Rooms 130 and 203 (F2.12)
- Mastic associated with Non-Asbestos containing White and Black Granite Patterned 12-inch by 12-inch vinyl floor tile located in Room 151 (F2.16)
- Brown with Black Streaks 9-inch by 9-inch vinyl floor tile and associated mastic and residual mastic located in Room 009 (F3.1)
- Light Brown with Brown Streaks 9-inch by 9-inch vinyl floor tile and associated mastic located in Room 006 (F3.2)
- Green 9-inch by 9-inch vinyl floor tile and associated mastic located in Room 029 (F3.3)
- Red 9-inch by 9-inch vinyl floor tile and associated mastic located in Room 106 (F3.3)
- Tan 9-inch by 9-inch vinyl floor tile and associated mastic located in Room 160 (F3.4)
- Grey 9-inch by 9-inch vinyl floor tile and associated mastic located in Room 160 (F3.4)
- Green 9-inch by 9-inch vinyl floor tile and associated mastic located in Room 201 (F3.5)
- Mastic associated with Non-Asbestos containing 2-foot by 4-inch vinyl floor tile located in Rooms 100 and 100A (F9.1)
- Black sink undercoating located in Rooms 111 and 126-127 (M10.1)
- Mudded fitting located in Boiler Room and Room 200 (T2.1)
- Magnesia straight run pipe insulation located in Boiler Room (T3.3)
- Air-Cell straight run pipe insulation located in Boiler Room (T3.4)
- Duplex straight run pipe insulation located in Boiler Room (T3.5)
- Roof drain bowl insulation located in Room 101 (T12.1)

Weston (START) 2018 Inspection

- Incinerator Transite Flue located in Boiler Room (LMH-IT01-01)
- Pipe Gasket located in Boiler Room (LMH-PG01-03)

Tetra Tech 2018 Inspection

- Black and Brown mastic associated with Non-Asbestos containing Tan sheet vinyl flooring located in Room 201 (LH-F1.1A, B, C)

The following materials sampled from the site were suspected to contain asbestos but were found not to contain asbestos by laboratory analysis:

Northern Industrial Hygiene 2016 Inspection

- White hard fitting debris located in East Crawlspace (D-2)
- Mastic associated with Asbestos containing sheet vinyl flooring located in Room 023 (F1.1)
- Beige sheet vinyl flooring located in Room 011 (F1.2)

- Beige and Brown sheet vinyl flooring and associated mastic located in Room 104A (F1.3)
- Purple and Grey sheet vinyl flooring and associated mastic located in Room 109 (F1.4)
- 12-inch by 12-inch White tile pattern sheet vinyl flooring and associated mastic located in Room 161 (F1.6)
- Beige with Black dots 12-inch by 12-inch vinyl floor tile and associated mastic located in Room 161 (F2.1)
- Pink with Black spots 12-inch by 12-inch vinyl floor tile and associated mastic located in Rooms 007 and 009 (F2.2)
- White with Grey specks 12-inch by 12-inch vinyl floor tile and associated mastic located in Room 010 (F2.3)
- Grey Marbled pattern 12-inch by 12-inch vinyl floor tile and associated mastic located in Rooms 002 and 029 (F2.4)
- White with Beige specks 12-inch by 12-inch vinyl floor tile and associated mastic and leveling compound located in Room 101 (F2.5)
- Purple Marbled 12-inch by 12-inch vinyl floor tile associated with Asbestos containing mastic located in Rooms 101, 107, and 204 (F2.6)
- Green Marbled 12-inch by 12-inch vinyl floor tile and associated mastic located in Room 101 (F2.7)
- Ivory with Tan Marbled 12-inch by 12-inch vinyl floor tile associated with Asbestos containing mastic located in Rooms 133 and 138 (F2.8)
- White with Grey Marbled 12-inch by 12-inch vinyl floor tile and associated mastic located in Rooms 104 and 134 (F2.9)
- Light Blue Marbled 12-inch by 12-inch vinyl floor tile and associated mastic located in Room 107 (F2.10)
- Off-White and Tan Marbled 12-inch by 12-inch vinyl floor tile and associated Asbestos containing mastic located in Rooms 145, 163, and 174 (F2.11)
- White with Green and Brown specks 12-inch by 12-inch vinyl floor tile and associated mastic located in Room 202 (F2.13)
- Brown Marbled 12-inch by 12-inch vinyl floor tile and associated mastic located in Room 202 (F2.14)
- White with Blue Specks 12-inch by 12-inch vinyl floor tile and associated mastic located in Room 107 (F2.15)
- White and Black Granite Patterned 12-inch by 12-inch vinyl floor tile associated with Asbestos containing mastic located in Room 151 (F2.16)
- Teal carpet and associated mastic located in Room 022 (F5.1)
- Blue carpet located in Room 017 and 018 (F5.2)
- Brown carpet and associated mastic located in Rooms 137, 159, and 189 (F5.3)
- Blue carpet and associated mastic located in Rooms 160, 162, and 190 (F5.4)
- Leveling compound located in Room 018 (F6.1)
- Brown 1-inch by 1-inch ceramic tile and associated grout located in Rooms 164, 172, and 185 (F7.1)
- Red 6-inch by 6-inch ceramic tile and associated grout located in Rooms 100 and 100A (F8.1A)
- Brown 2-foot by 4-inch floor tile associated with Asbestos containing mastic located in Rooms 103 and 183 (F9.1)
- Gypsum board assembly located in Boiler Room (M3.1)
- Sheetrock and joint compound located in Rooms 137, 157, and 165 (M3.2)
- Gypsum board assembly located in Rooms 015, 016, and 106A (M3.3)
- Sheetrock and joint compound located in Rooms 184-185 and 188 (M3.4)
- Gypsum board located behind plaster in Rooms 101, 127, and 151 (M3.5)

- 2-foot by 4-foot Medium Fissure and Pinhole ceiling panels located in Room 021 (M5.1)
- 2-foot by 4-foot Heavy Texture, Fissure, and Pinholes ceiling panels located in Room 024 (M5.2)
- 2-foot by 4-foot Light Texture, Fissure, and Pinholes ceiling panels located in Room 022 (M5.3)
- 2-foot by 4-foot Pinhole and Small Fissure ceiling panels located in Room 020 (M5.4)
- 2-foot by 4-foot in a 5-inch by 5-inch pattern ceiling panel located in Rooms 017-018 (M5.5)
- 2-foot by 4-foot Light Texture, Deep Fissure, and Pinholes ceiling panels located in Rooms 014 and 017 (M5.6)
- 2-foot by 4-foot gypsum board panel with vinyl cover located in Room 002 (M5.7)
- 1-foot by 1-foot White with Heavy Fissures ceiling tiles and associated brown mastic located in Rooms 103 and 153 (M6.2)
- 1-foot by 1-foot Patterned Holes ceiling tiles and associated Brown mastic located in Room 106 (M6.3)
- 1-foot by 1-floot White with Heavy Texture and Fissures ceiling tiles and associated Black mastic located in Room 194 (M6.4)
- Plaster wall system over gypsum board (M3.5), located in Rooms 101, 140, 127, 162, and 193 (M7.1)
- Brown vinyl window glazing located in Rooms 146, 149, and 155 (M8.4)
- 4-inch by 4-inch White ceramic tile and associated mastic and grout located in Rooms 164, 172, and 185 (M8.5)
- White sink undercoating located in Rooms 157-158 and 195 (M10.2)
- Grey sink undercoating located in Rooms 159 and 205 (M10.3)
- Light Brown 4-inch cove base and associated mastic located in Room 022 (M12.1)
- Beige 4-inch cove base and associated mastic located in Room 014 (M12.2)
- 4-inch Black cove base and associated Brown mastic located in Room 009 (M12.3)
- 4-inch Brown cove base and associated Brown mastic located in Rooms 104A, 179, and 203 (M12.4)
- White mastic associated with cove base mastic located in Rooms 110, 126, and 205 (M12.5)
- Yellow/Brown cove base mastic located in Room 116 (M12.6)
- Concrete located in Boiler Room (M16.1)
- Concrete located in Room 016 (M16.2)
- Concrete located on exterior foundation wall (M16.3)
- Brick and mortar associated with exterior of incinerator (M17.1)
- Firebrick and mortar associated with interior of incinerator (M17.2)
- Red clay block and mortar located in Rooms 101, 163, and 170 (M17.3)
- Light Brown brick and mortar associated with exterior (M17.4)
- Concrete block and mortar located in Boiler Room (M18.1)
- Fiberglass reinforced plastic located in Room 002 (M19.1)
- Green 4-inch by 4-inch ceramic tile and associated mortar and grout located in Rooms 122-124 (M19.1)
- Boiler ribbon gasket located on large boiler in boiler room (T1.1)
- White boiler ribbon gasket located on small boiler in boiler room (T1.2)
- Red boiler flange gasket located on small boiler in boiler room (T1.3)
- White pipe flange gasket located on small boiler in boiler room (T1.4)
- Red flange gasket located on main water line (T1.5)
- Mudded pipe fitting on insulated fiberglass straight run piping located in Boiler Room (T2.2)
- Boiler breaching located in Boiler Room (T7.1)

- Black vibration joint collar located in Room 029 (T8.1)
- Grey duck sealant located in Room 016 (T9.1)
- Red fire stop located in Room 026 (T11.1)

Tetra Tech 2018 Inspection

- Tan with Black dot 12-inch by 12-inch vinyl floor tile and associated Yellow mastic with White leveling compound located in Rooms 125-127 (LH-F2.1A, B, C)
- Yellow stair tread mastic associated with rubber stair tread located throughout (LH-F5.1A, B, C)
- 2-inch by 2-inch Tan with Black Specks ceramic floor tile and associated grout located in Room 205A (LH-F7.1A, B, C)
- Built up tar roof associated with original building (LH-M1.1A, B, C)
- Perlite insulation associated with membrane roofing on original building (LH-M1.2A, B, C)
- Drywall associated with membrane roofing on NE addition (LH-M1.3A, B, C)
- Brown mastic associated with cork board located in Room 121 (LH-M6.1A, B, C)
- Tan mastic associated with wooden wainscoting located throughout (LH-M8.1A, B, C)
- Warnock Hersey insulated wood fire doors located throughout (LH-M9.1A, B, C)
- Mohawk insulated wood fire doors located throughout (M9.2A, B, C)
- Black wire insulation primary power located in breaker boxes (LH-M11.1A, B, C)
- White and Black wire insulation secondary power located in breaker boxes (LH-M11.2A, B, C)
- Concrete walls and ceilings, scratch coat and plaster located in Room 120C (LH-M18.1A, B, C)
- Black felt paper behind wallboard covered with plaster walls located in Rooms 122, 122A, and 123 (LH-M20.1A, B, C)
- Black mastic associated with paper backed Yellow fiberglass batt insulation located throughout (LH-M30.1A, B, C)
- Black mastic associated with foil backed Pink fiberglass batt insulation located throughout (LH-M30.2A, B, C)
- Black mastic associated with paper backed Orange fiberglass duct insulation located throughout (LH-M30.3A, B, C)
- Mastic associated with fabric acoustic wall covering located in Room 103 (LH-M31.1A, B, C)
- Tan mastic associated with Styrofoam on brick located on exterior (LH-M32.1A, B, C)
- Black foundation sealant (LH-M40.1A, B, C)
- Tan EFIS associated with NE addition roof (LH-M41.1A, B, C)
- White woven duct tape located in Rooms 183-184, 188, 002, and 028 (LH-T9.1A, B, C)

Lead-Based Paint Inspection Services

LBP inspection services were conducted based on the findings generated in the *Phase II Environmental Site Assessment dated May 25, 2018*, provided in Attachment A of this report. This document is incorporated in the findings generated within this report.

Mr. Paydn Borland of Tetra Tech tested painted interior and exterior components of suspect lead to meet the requirements of EPA and United States Department of Housing and Urban development (HUD). Mr. Borland was under the direct supervision of Mr. Roger Herman, Jr. of Tetra Tech, EPA Accredited Lead Inspector/Risk Assessor. His Inspector/Risk Assessor Accreditation Certification is presented in Attachment B.

Components tested during this lead-based paint (LBP) inspection included all accessible interior and exterior components. Tested painted components were cataloged based on location, specific component type, and substrate material.

The EPA and HUD define an LBP inspection as a surface-by-surface investigation to determine the presence of LBP. Tetra Tech generally followed the HUD LBP inspection guidelines (HUD, 1995, revised 1997 and 2000) for the purposes of this inspection[1]. The EPA and HUD define LBP as any surface coating that contains 1.0 milligram per square centimeter (mg/cm² or 0.5% by weight).

Mr. Paydn Borland, of Tetra Tech used field X-Ray Fluorescence (XRF) methodology to determine the presence or absence of LBP. XRF is identified as the recommended method to determine lead in paint. For these inspections, Tetra Tech personnel utilized the *Niton XLP, Spectrum Analyzer XRF*, which automatically calculates measurable amounts of lead in paint by correcting for substrate conditions. The XRF *Performance Characteristic Sheet* for the XRF used by Tetra Tech specifies the ranges where XRF results are positive, negative, or inconclusive. The *Performance Characteristic Sheet* for this instrument is presented in Attachment D.

XRF data indicated that LBP, as defined by the EPA, is present. XRF data also indicated that lead is present in concentrations less than the EPA limit of 1.0 mg/cm² and greater than 0.02 mg/cm². A complete listing of the XRF readings collected during this inspection is provided in Attachment E.

A summary of the EPA defined LBP identified during this inspection is provided in Table 2. Approximate locations of the LBP components are presented on Figures 5 through 8.

Table 2
Summary of LBP
Former Livingston Memorial Hospital
Livingston, Montana

Component and General Description	Observed Condition	Highest Lead Concentration mg/cm²
Yellow Painted Wood Trim	Good	2.9
Yellow Painted Wood Fascia	Good	3.4
Yellow Painted Metal Window and Door Frame Headers	Good	10.1
Yellow Painted Wood Soffit	Good	4.3
Brown Painted Door Kickplate	Good	11.1

[1] As specified in Housing and Urban Development, Guidelines for the Control of Lead-Based Paint Hazards in Housing, June 1995, revised 1997 and 2000

Table 2 Summary of LBP Former Livingston Memorial Hospital Livingston, Montana		
Component and General Description	**Observed Condition**	**Highest Lead Concentration mg/cm^2**
Brown Painted Door Transition	Good	12.2
Brown painted stair tread edging	Good	12.2
White ceramic shower base	Good	9
White ceramic sink	Cracked	32.6
White ceramic bathtub	Good	7.1
White painted metal attic entry hatch and frame	Good	1.5
White painted metal door jamb	Good	6.4
White painted metal window frame	Good	15.7
White ceramic toilet	Good	3.4
Orange painted I-beam	Good	3.3

mg/cm^2 = milligrams per centimeter squared
Reported concentrations are the highest recorded reading for individual component types
Reported LBP components are based on EPA Standards

OSHA has regulations pertaining to the disturbance of paint with any concentration of lead (29 CFR1926.62). OSHA requires that safe work practices be utilized to reduce exposure to harmful levels of lead, regardless of the work being performed. Safe work practices may include use of PPE (respiratory protector, disposable coveralls, and eye protection), initial exposure assessment, and use of wet methods. Tetra Tech recommends that renovation or removal involving any painted surfaces be conducted by a contractor who has received a minimum of OSHA Lead in the Construction Training (commonly referred to as “OSHA Lead Awareness Training”).

EPA has regulations pertaining to the disturbance of paint in pre-1978 child-occupied facilities but not limited to residential homes, apartments, child care facilities, and kindergartens (24 CRF Part 35 and 40 CFR Part 745). Any contractor performing qualifying work on pre-1978 child-occupied facilities and who might disturb painted surfaces while doing plumbing, electrical, drywall, painting, tile, window replacement, landscaping, repairs, construction, renovation, remodeling, HVAC, demolition, plus many, other jobs must employ at least one Certified Renovator who has successfully completed EPA Lead Renovation Repair and Painting (RRP) Training. The RRP rule applies to people who are contractors, handymen, maintenance companies, rental property owners, schools, and day care providers as well as non-profits and government agencies.

Landlords are required to distribute the educational information (included in Appendix F) to all building occupants. Standard warning language in leases or sales contract must also include information they need to protect their children from LBP hazards.

Tetra Tech also recommends that present and future tenants sign a form documenting that they have received this information.

A copy of this report must be provided to new lessees and purchasers of this property (24 CRF 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 tenants.

LIMITATIONS

Our opinions are intended exclusively for use by Snowy Mountain Development Corporation. The scope of services performed by Tetra Tech may not be appropriate to satisfy the needs of other users, and any use or re-use of this document, or the findings presented herein is at the sole risk of the user. Furthermore, the opinions presented herein apply to the site conditions existing at the time of our investigation. Therefore, our opinions and recommendations may not apply to future conditions that may exist at the site which we have not had the opportunity to evaluate.

It has been a pleasure assisting you with this project. If you should have any questions or need any additional information please contact me in our Billings, Montana office at (406) 248-9161 or Mr. Nicholas Sovner in our Helena, Montana office at (406) 443-5210.

Respectfully submitted,

Tetra Tech, Inc.

Roger W. Herman, Jr.
Asbestos, Lead & IH Services Manager

Nicholas Sovner
Brownfields Project Manager

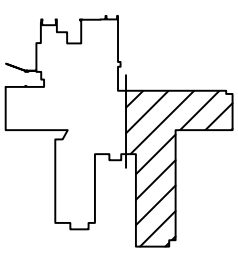
PB/RWH/ba

N-S\Snowy Mountain Development Corporation\117-8292002 - Livingston Hospital ACM\05-Deliverables\Final\Supplemental ACM-LBP\FLMH Supplemental ASB and LBP Inspection Report.docx

Figures
Attachment A – NESAHP Asbestos Renovation Survey dated March 7, 2016 and Phase II Environmental Site Assessment dated May 25, 2018
Attachment B – Inspector Accreditation Certifications
Attachment C – Laboratory Analytical Reports
Attachment D – Performance Characteristics Sheet
Attachment E – XRF Results
Attachment F – Educational Information for Landlords

FIGURES

Key Plan



Legend

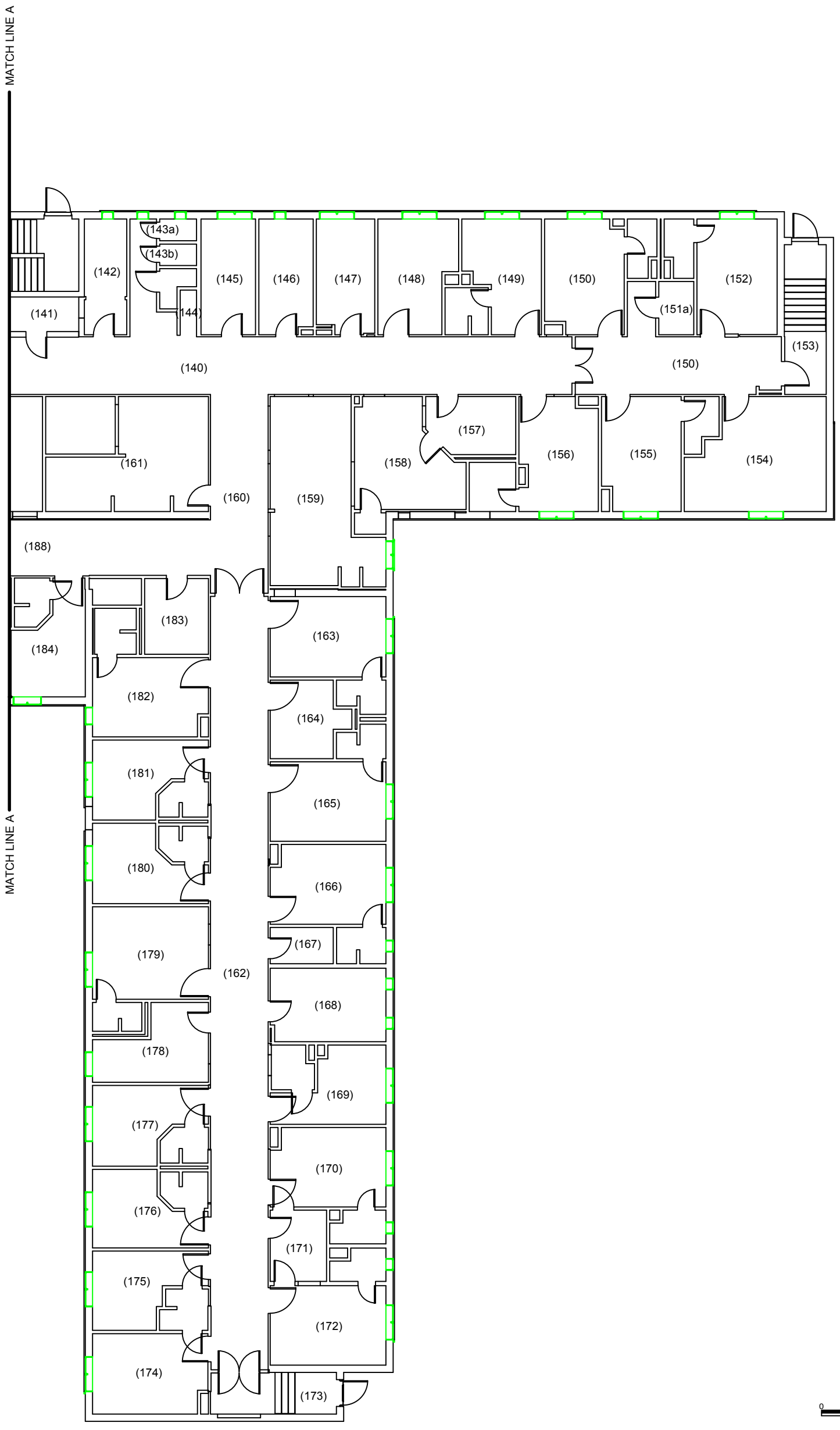
M8.1 / M8.3 - Gray and white window caulk

M8.1 / M8.2 / M8.3 - Gray window caulk, white window caulk, and white window glazing

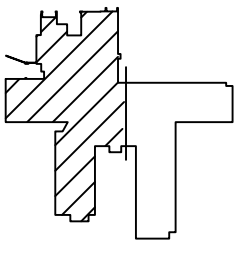
( ) Room Number

Asbestos Inspection
ACM Locations
SMDC - Former Livingston Hospital - Main Level
504 South 13th Street
Livingston, Montana

DATE: 01/31/2019	DRAWN BY: DLL
REVIEWED: RH	APPROX. SCALE: 1" = 16'
PROJ. NO. 117-8292002	FIGURE NO. 1



Key Plan



Legend

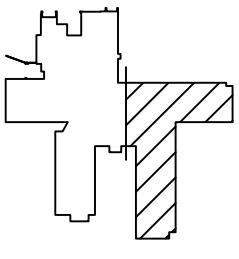
M8.1 / M8.3 - Gray and white window caulk

( ) Room Number

Asbestos Inspection
ACM Locations
SMDC - Former Livingston Hospital - Main Level
504 South 13th Street
Livingston, Montana

DATE: 01/31/2019	DRAWN BY: DLL
REVIEWED: RH	APPROX. SCALE: 1" = 16'
PROJ. NO. 117-8292002	FIGURE NO. 2

Key Plan



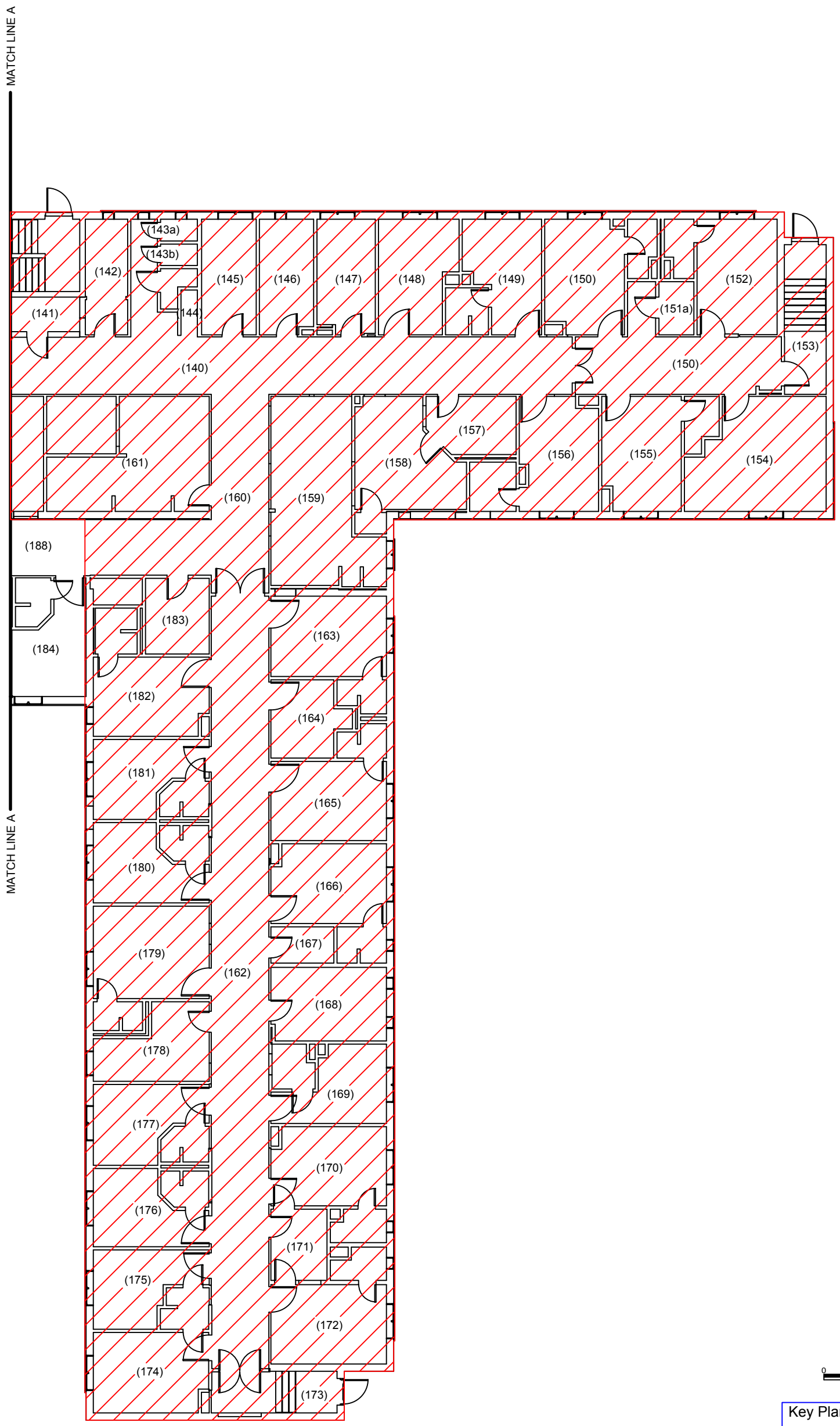
Legend

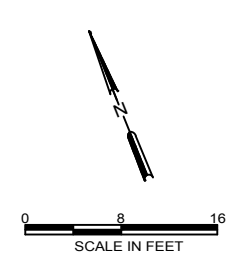
M2.1 - Silver surfaced black tar roof beneath rubber membrane roof system

( ) Room Number

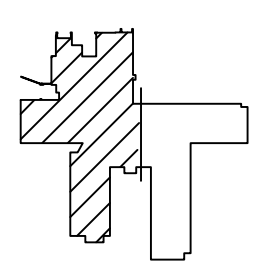
Asbestos Inspection
ACM Locations
SMDC - Former Livingston Hospital - Main Level
504 South 13th Street
Livingston, Montana

DATE: 01/31/2019	DRAWN BY: DLL
REVIEWED: RH	APPROX. SCALE: 1" = 16'
PROJ. NO. 117-8292002	FIGURE NO. 3





Key Plan



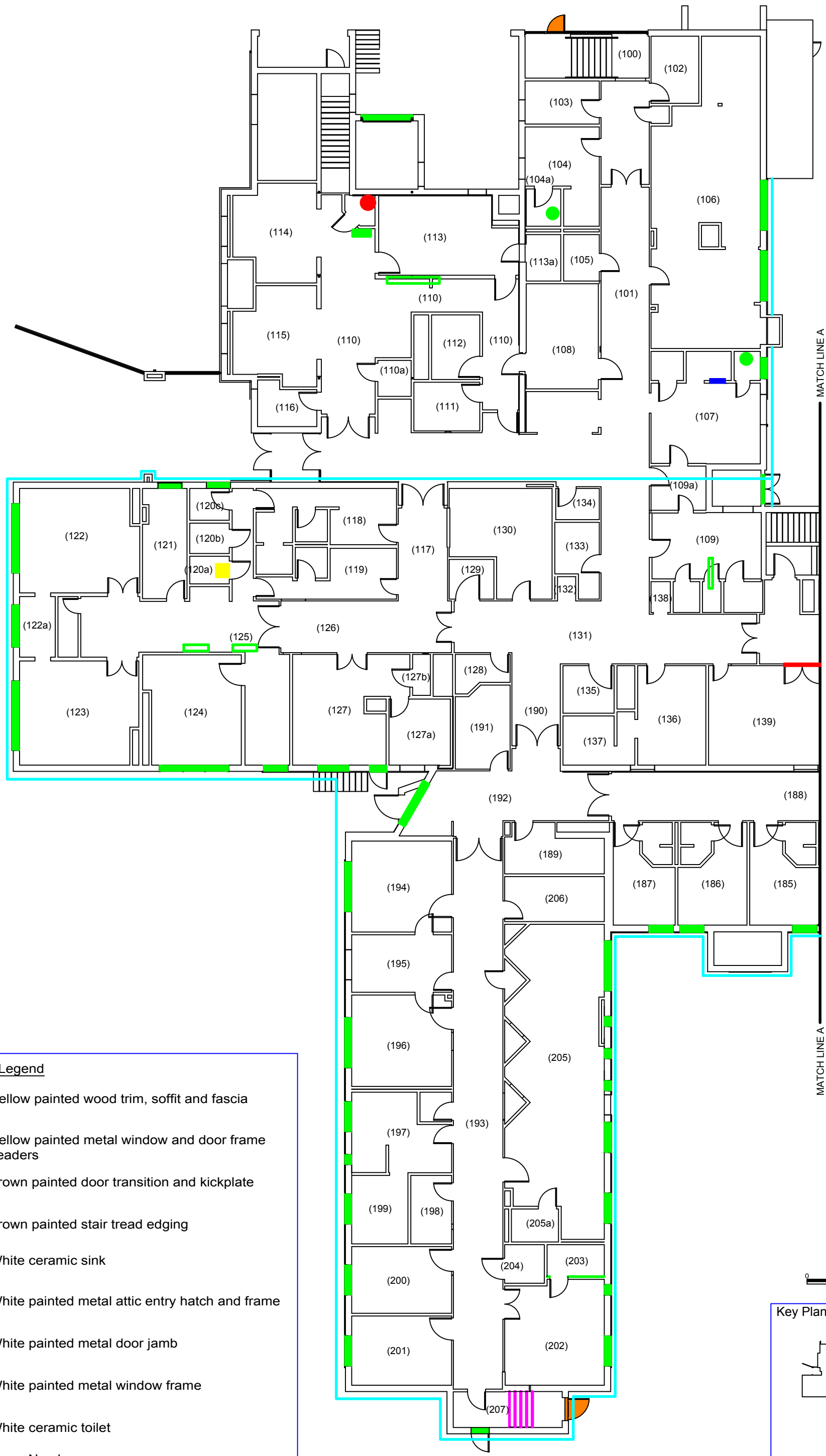
Legend

M2.1 - Silver surfaced black tar roof beneath rubber membrane roof system

( ) Room Number

Asbestos Inspection
ACM Locations
SMDC - Former Livingston Hospital - Main Level
504 South 13th Street
Livingston, Montana

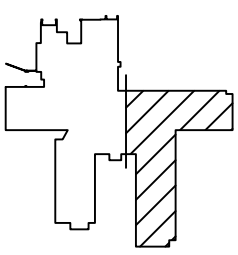
DATE: 01/31/2019	DRAWN BY: DLL
REVIEWED: RH	APPROX. SCALE: 1" = 16'
PROJ. NO. 117-8292002	FIGURE NO. 4



Legend

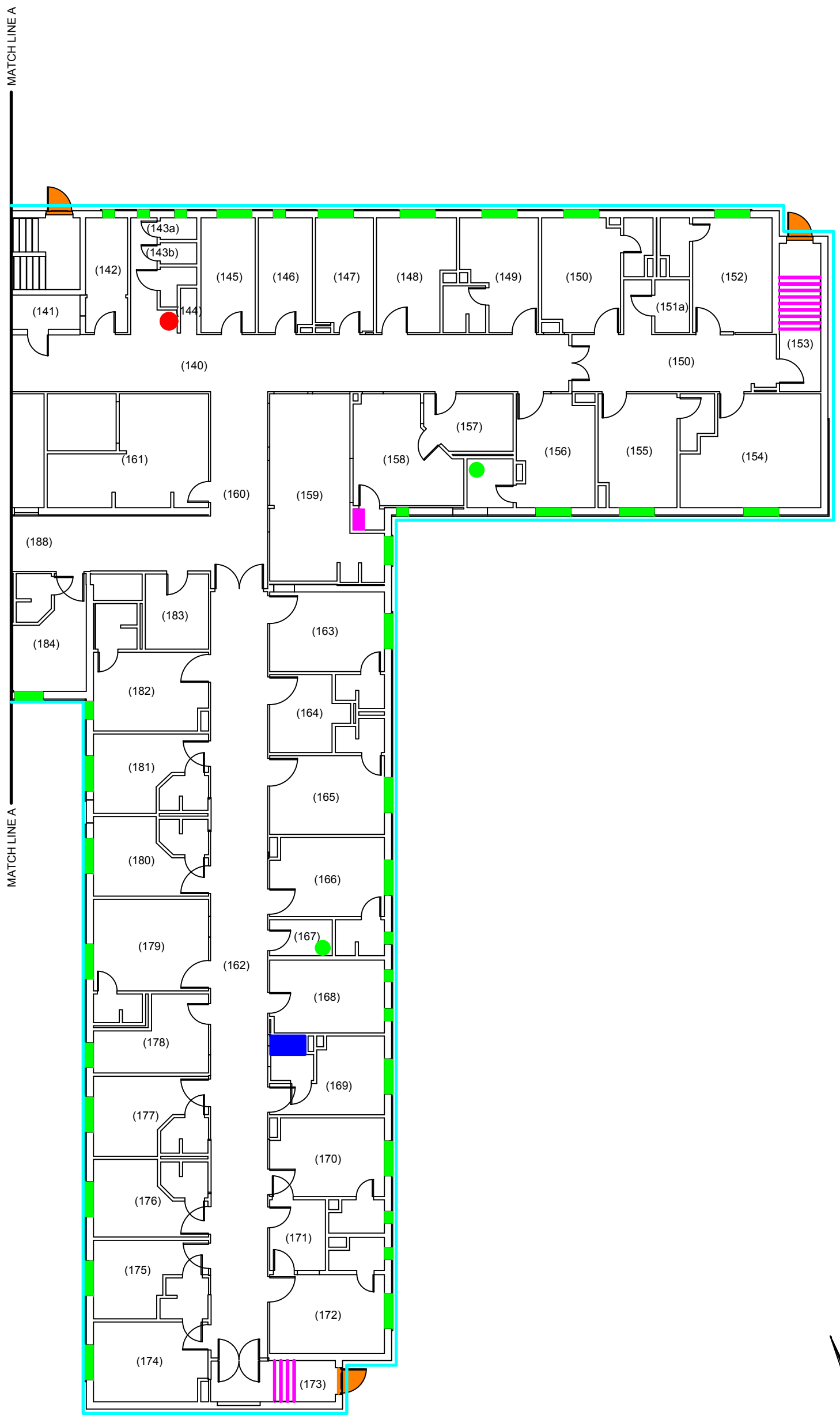
- Yellow painted wood trim, soffit and fascia
- Yellow painted metal window and door frame headers
- Brown painted door transition and kickplate
- Brown painted stair tread edging
- White ceramic sink
- White painted metal attic entry hatch and frame
- White painted metal door jamb
- White painted metal window frame
- White ceramic toilet
- ( ) Room Number

Key Plan



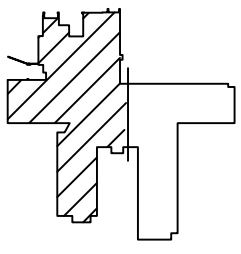
Lead-Based Paint Inspection
LBP Locations
SMDC - Former Livingston Hospital - Main Level
504 South 13th Street
Livingston, Montana

DATE: 02/01/2019	DRAWN BY: DLL
REVIEWED: RH	APPROX. SCALE: 1" = 16'
PROJ. NO. 117-8292002	FIGURE NO. 5



0 8 16
SCALE IN FEET

Key Plan

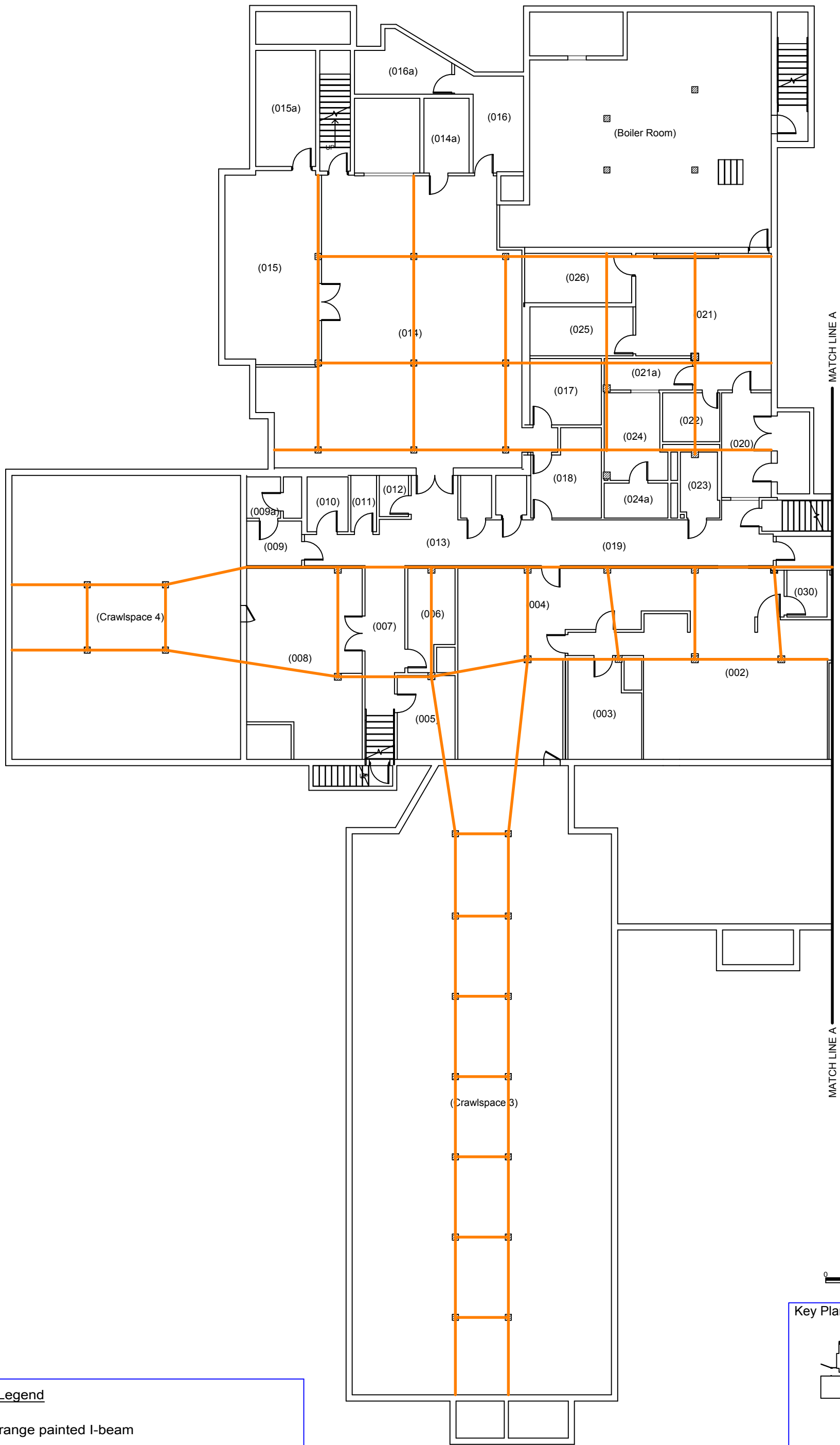


Legend

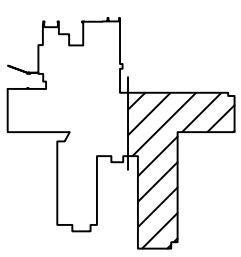
- Yellow painted wood trim, soffit and fascia
- Yellow painted metal window and door frame headers
- Brown painted door transition and kickplate
- Brown painted stair tread edging
- White ceramic shower base
- White ceramic sink
- White ceramic bathtub
- White ceramic toilet
- ( ) Room Number

Asbestos Inspection
ACM Locations
SMDC - Former Livingston Hospital - Main Level
504 South 13th Street
Livingston, Montana

DATE: 02/01/2019	DRAWN BY: DLL
REVIEWED: RH	APPROX. SCALE: 1" = 16'
PROJ. NO. 117-8292002	FIGURE NO. 6



Key Plan



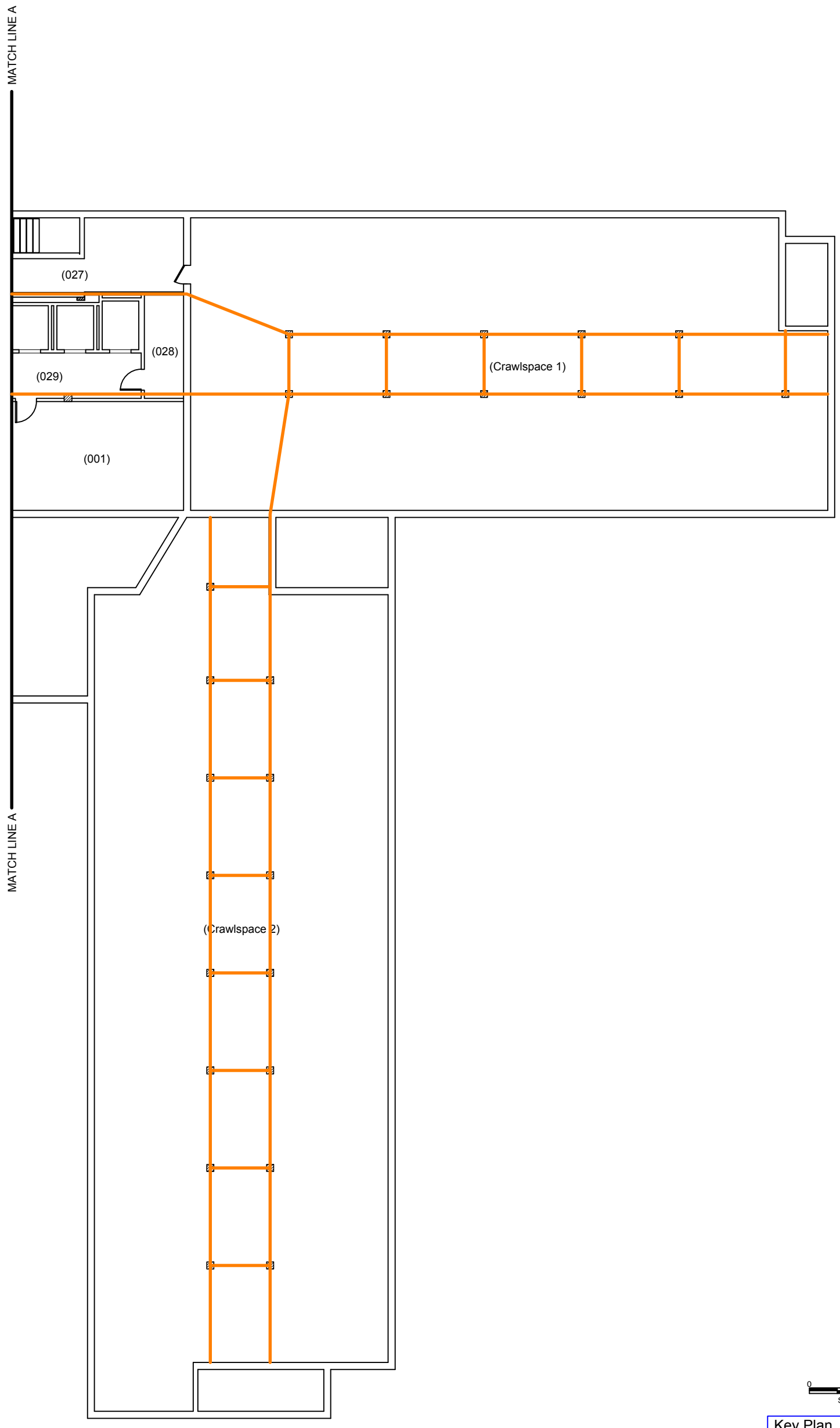
Legend

Orange painted I-beam

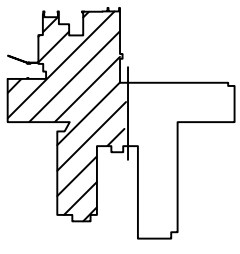
( ) Room Number

Lead-Based Paint Inspection
LBP Locations
SMDC - Former Livingston Hospital - Basement
504 South 13th Street
Livingston, Montana

DATE: 02/01/2019	DRAWN BY: DLL
REVIEWED: RH	APPROX. SCALE: 1" = 16'
PROJ. NO. 117-8292002	FIGURE NO. 7



Key Plan



Legend

Orange painted I-beam

( ) Room Number

Lead-Based Paint Inspection
LBP Locations
SMDC - Former Livingston Hospital - Basement
504 South 13th Street
Livingston, Montana

DATE: 02/01/2019	DRAWN BY: DLL
REVIEWED: RH	APPROX. SCALE: 1" = 16'
PROJ. NO. 117-8292002	FIGURE NO. 8

ATTACHMENT A

NESAHP Asbestos Renovation Survey
dated March 7, 2016
and
Phase II Environmental Site Assessment
dated May 25, 2018

ASBESTOS SURVEY

Former Livingston Hospital
504 South 13th Street
Livingston, Montana

NESHAP Asbestos Renovation Survey

Former Livingston Hospital
504 South 13th Street
Livingston, Montana

Prepared for:

A&E, LLC
PO Box 2031
Livingston, Montana 59047

Prepared by:

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, Montana 59101

Project No. 999-3019

March 7, 2016

Robert B Brownell **MTA-3542** **Expires 03/10/2016**

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Table 1 - Summary of Materials Suspected to Contain Asbestos

Table 2 - Summary of Confirmed or Assumed Asbestos-Containing Building Materials and Recommended Response Action

FIGURES

Figure Set 1 - Asbestos-Containing Building Material Location Drawings

APPENDIX A

ASBESTOS LABORATORY ANALYSIS REPORTS

APPENDIX B

ASBESTOS SAMPLE COLLECTION REQUIREMENTS AND MATERIAL CATEGORY DESCRIPTIONS

APPENDIX C

INSPECTOR ASBESTOS TRAINING CERTIFICATES

EXECUTIVE SUMMARY

At your request, Northern Industrial Hygiene (Northern) conducted an asbestos survey of the former Livingston Hospital located at 504 South 13th Street in Livingston, Montana. This report provides the summarized results of the survey conducted by Mr. Robert Brownell (MTA-3542), Mr. Logan Silveira (MTA-4712) and Mr. Kevin Oliver (MTA-1308) from December 22 through December 31, 2015. The survey was conducted to identify potential hazardous materials (asbestos) that may be disturbed during renovation of the building.

Overview of Building

The former Livingston Hospital building is a single story masonry structure with a flat roof and combination basement /crawlspace. The building was constructed in 1950 with additions in 1987 and 1989 and comprises a floor space area of approximately 43,100 square feet (SF). The exterior building finish consists of a brick masonry veneer with plywood soffits. The interior finishes at the time of the survey consisted of: ceiling tile, lay-in panel, gypsum board and plaster ceilings; gypsum board, plaster, concrete and concrete masonry unit (CMU) walls, and; carpet, vinyl sheet, vinyl tile and concrete floors.

Heat is provided by tube type hot water boilers located in the basement boiler room.

Mechanical and domestic water system piping is insulated with fiberglass, Air-cell, Duplex and magnesium silicate on straight runs with mudded and fiberglass insulated joints/fittings.

Mechanical piping is routed above the basement ceiling and through crawlspaces to heat exchangers and above the first floor ceilings to radiant panel heaters in the hallways and one forced air heat exchanger in the surgical area. Domestic water piping is routed above the basement ceiling and through crawlspaces.

Conditioned air is routed to the building interior through un-insulated metal or fiberglass insulated flexible ducts connected to air diffusers located in the drop ceiling.

The Magnetic Resonance Imaging unit and the roof of the building were not included in this inspection.

Survey Findings

A total of one hundred and one suspect building materials were identified in this building. Upon further visual examination, two materials, (Transite wall board in the refrigeration rooms and Air-cell pipe insulation throughout the building), were assumed to be asbestos-containing material (ACM). One material (wood-based 12"x12" mechanically fastened ceiling tiles) was determined to be non-suspect. The remaining ninety-eight (98) materials were sampled in accordance with current regulatory requirements. Laboratory analysis found that twenty-seven (27) of the sampled materials contain asbestos. A list of these materials and a summary of the laboratory analysis results are included in Table 1.

1.0 INTRODUCTION

Northern conducted an asbestos survey of the former Livingston Hospital building located at 504 South 13th Street in Livingston, Montana. The purpose of the asbestos survey was to identify friable and non-friable suspect asbestos-containing building materials (ACBM's), if any, in this space.

The scope of the asbestos survey included the following activities:

- Surveying, identifying, assessing the material's condition and sampling suspect friable and non-friable ACBM's; and

- Reviewing laboratory results of sampled or assumed suspect materials and preparing ACBM material location drawings.

Following completion of the survey, prepare this report documenting the sampling procedures and results of the asbestos survey and provide recommendations for management of the identified ACBM's).

Asbestos Overview

Asbestos is a trade name for a group of fibrous naturally occurring minerals that were used widely in building materials because of its ability to bind, resist chemicals, insulate, and fireproof. Exposure to elevated levels of asbestos fibers has been documented to cause a variety of diseases including asbestosis and cancer. Consequently, the application, removal, and disposal of asbestos-containing materials are regulated by several agencies.

Asbestos in most building materials poses little threat to human health as long as the asbestos fibers are securely bound within the building material. However, as the materials deteriorate because of time or exposure, or are disturbed because of human or other activities, the potential increases for the fibers to become airborne. When this occurs, the risk to human health increases significantly when the fibers are inhaled.

The National Emissions Standards for Hazardous Air Pollutants (NESHAP) defines ACM as a material containing greater than (>)1% asbestos and assigns ACM to three categories: regulated asbestos-containing material (RACM), Category I, and Category II. RACM is defined as an ACM that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure (friable). RACM also includes: Category I and Category II materials that will be (or have been) subjected to sanding, grinding, cutting or abrading, or; Category II materials that have a high probability of becoming (or have become) crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition/renovation operations. Category I ACMs are non-friable packings, gaskets, resilient floor coverings, and asphalt roofing products. Category II ACMs are non-friable materials, excluding Category I non-friable ACMs, that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. The Administrative Rules of Montana (ARM) adopts the NESHAP by reference.

The NESHAP requires that the building owner or operator provide notification at least 10 working days prior to commencing renovation activities that will disturb more than 160 square feet (SF) or 260 linear feet (LF) of RACM, or prior to any demolition activities. The NESHAP also requires that RACM be removed prior to renovation/demolition activities that will disturb the material.

The MDEQ adopted the NESHAP by reference and requires the building owner/operator to apply for an Asbestos Abatement Permit at least 5 working days prior to commencing asbestos abatement project involving > 10 SF but less than (<) 160 SF in surface area or >3 LF but < 260 LF of RACM. The permit application must be submitted at least ten working days prior to commencing an asbestos abatement project involving >160 SF or 260 LF of RACM or prior to any demolition. Notification of the MDEQ satisfies the NESHAP notification requirement.

The MDEQ requires that personnel conducting permitted asbestos abatement projects be accredited by the State of Montana. The MDEQ also requires an asbestos abatement design be prepared by a State of Montana accredited asbestos project designer for projects requiring an Asbestos Abatement Project Permit.

The Occupational Safety and Health Administration (OSHA) requires that employees that will be exposed to any amount of asbestos be trained in accordance with the provisions of 29 CFR 1926.1101. The OSHA standard also requires that employee exposure to asbestos fibers not exceed either the permissible exposure limit (PEL) of 0.1 fibers per cubic centimeter (f/cc) of air for an eight (8) hour time-weighted average (TWA) or the excursion limit (EL) of 1.0 f/cc for any thirty (30) minute work period.

2.0 SURVEY PROCEDURES

The asbestos survey was conducted using the applicable portions of the currently recognized standard protocol developed for schools under AHERA, as promulgated in Title 40, Code of Federal Regulations (40 CFR), Part 763 as amended in the Federal Register and the ARM 17.74.354. Since the primary purpose of this survey was to identify potential asbestos hazards in the portion of the building surveyed, Northern representatives visually assessed existing conditions considering each construction, addition, or renovation date as a separate, unique building.

Asbestos Survey and Sampling

The survey was conducted by our accredited inspectors, and consisted of a detailed visual survey of surfacing materials, thermal system insulation, and miscellaneous materials throughout the building. Suspect ACBM was then grouped into homogeneous materials and sampling plans were developed. Components of the survey included:

- Identification of homogeneous suspect materials on a room-by-room basis. Areas from which samples were to be obtained were also identified during this task.

- Collection and analysis of bulk samples to confirm whether or not the suspect materials contain asbestos.

- An assessment of known or assumed ACBMs, generally classifying the materials using categories defined in the NESHAP regulations.

- Homogeneous suspect ACBMs were, for the purposes of this study and as outlined in the AHERA sampling protocol, placed into the following material type categories: thermal system insulation (TSI), surfacing materials and miscellaneous. AHERA sampling protocol specifies sampling procedures for each material type.

Sample locations for this survey were selected in a non-random fashion, with emphasis placed on collecting samples of each type of accessible, suspect material and minimizing damage to the material being sampled. Samples were collected by carefully removing small portions of the suspect material in a non-abrasive manner using techniques such as wet slicing, wet boring or similar methods designed to limit contamination of the area during sampling. Samples were collected from existing damaged areas or loose pieces of material where possible. The samples were placed in pre-labeled plastic containers. Immediately after sample collection. Containers with samples were then placed in a large resealable plastic bag for transportation to the laboratory. The sampled area was sealed using patching compounds, duct tape, or spray encapsulants as appropriate to the material being sampled.

Laboratory Analysis of Bulk Asbestos Samples

Bulk samples collected during the inspection were assigned bulk sample numbers and entered on sample summary/chain-of-custody forms. The samples were transported to the laboratory by overnight courier under standard chain-of-custody procedures. The analysis was performed in accordance with EPA Method 600/R-93/116, which employs polarized light microscopic techniques with dispersion staining for identification of mineral forms of asbestos. The quantification of asbestos in the sample is intended to be an estimate only and the limit of detection for this method is approximately 1% by volume. Sample laboratory analysis results are presented in Table 1.

Quality Assurance and Quality Control

Quality Assurance and quality control (QA/QC) measures adopted by Northern involved field and office components. Key parameters are summarized below:

Field QA/QC

- Review inspection forms for completeness;
- Check Homogeneous Materials Listing for sufficient number of collected samples; and
- Verify locations of major mechanical components.

Office QA/QC

- Review lab results for completeness;
- Ensure appropriate cross-referencing of results from forms for each given ACBM;
- Ensure drawings are updated as necessary following field QC;
- Verify approximate quantities of ACBM based on drawing review; and
- Review recorded field comments for meaning, incorporate as necessary into report.

3.0 FINDINGS

Survey results are presented in the following paragraphs. Additional information is presented in the Report Tables, drawings, and Appendices located at the end of this report.

Overview of Building

The former Livingston Hospital building is a single story masonry structure with a flat roof and combination basement /crawlspace. The building was constructed in 1950 with additions in 1987 and 1989 and comprises a floor space area of approximately 43,100 SF. The exterior building finish consists of a brick masonry veneer with plywood soffits. The interior finishes at the time of the survey consisted of: ceiling tile, lay-in panel, gypsum board and plaster ceilings; gypsum board, plaster, concrete and concrete masonry unit (CMU) walls, and; carpet, vinyl sheet, vinyl tile and concrete floors. Heat is provided by tube type hot water boilers located in the basement boiler room.

Mechanical and domestic water system piping is insulated with fiberglass, Air-cell, Duplex and magnesium silicate on straight runs with mudded and fiberglass insulated joints/fittings.

Mechanical piping is routed above the basement ceiling and through crawlspaces to heat exchangers and above the first floor ceilings to radiant panel heaters in the hallways and one forced air heat exchanger in the surgical area. Domestic water piping is routed above the basement ceiling and through crawlspaces.

Conditioned air is routed to the building interior through un-insulated metal or fiberglass insulated flexible ducts connected to air diffusers located in the drop ceiling.

The Magnetic Resonance Imaging unit and the roof of the building were not included in this inspection.

Inspection Findings

A total of one hundred and one 101 suspect materials were identified in this building. Upon further visual examination, two (2) materials, (Transite wall board in the refrigeration rooms and Air-cell pipe insulation throughout the building), were assumed to be asbestos-containing material (ACM). One material (wood based 12"x12" mechanically fastened ceiling tiles) was determined to be non-suspect. The remaining ninety-eight (98) materials were sampled in accordance with current regulatory requirements. Laboratory analysis found that twenty-seven (27) of the sampled materials contain asbestos. A list of these materials and a summary of the laboratory analysis results are included in Table 1.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Asbestos was confirmed to be present in 27 of the sampled suspect building materials and assumed present in two additional suspect building materials.

Recommendations

Category I Materials (F2.6, F2.8, F2.11, F2.12, F2.16, F3.1, F3.2, F3.3, F3.3*, F3.4, F3.4*, F3.5, F9.1)

These materials are non-friable and generally in good condition. If these materials will not be disturbed during renovation activities, they may be left in place. If renovation activities will disturb the materials, Northern recommends the materials be removed and properly disposed of by a Montana-accredited asbestos abatement contractor prior to renovation activities that would disturb the materials.

Montana requires an asbestos abatement permit if removal activities will subject these materials to grinding, cutting, sanding, abrading or other removal procedures that would render the materials friable. Montana also requires a project design by a Montana-accredited project designer, final visual clearance inspection(s), and air clearance monitoring for all permitted asbestos abatement projects. Montana does not require an asbestos abatement permit or project design if the materials are removed using methods that do not render the materials friable.

Category II Materials (M4.1, M8.1, M8.2, M8.3, M10.1)

These materials are non-friable and generally in good condition. If these materials will not be disturbed during renovation activities, they may be left in place. If renovation activities will disturb the materials, Northern recommends the materials be removed and properly disposed of by a Montana-accredited asbestos abatement contractor prior to renovation activities that would disturb the materials.

Montana requires an asbestos abatement permit if removal activities will subject these materials to grinding, cutting, sanding, abrading or other removal procedures that would render the materials friable. Montana also requires a project design by a Montana-accredited project designer, final visual clearance inspection(s), and air clearance monitoring for all permitted asbestos abatement projects. Montana does not require an asbestos abatement permit or project design if the materials are removed using methods that do not render the materials friable.

RACM (F1.1, T2.1, T3.3, T3.4, T3.5, T12.1)

These materials are friable and generally in good condition. If these materials will not be disturbed during renovation activities, they may be left in place.

If renovation activities will disturb the materials, they must be removed and properly disposed of by a Montana-accredited asbestos abatement contractor prior to renovation activities that would disturb the materials.

RACM DEBRIS (IN CRAWLSPACES) (D-1, D-3, D-4, D-5, D-6)

The asbestos-containing debris is friable and widely scattered throughout the crawlspaces. Crawlspace access should be restricted to properly trained personnel. Northern recommends the removal and disposal of this debris when financially feasible or before conducting any renovation or demolition work that will impact this debris.

Montana requires an asbestos abatement permit for the removal and/or disposal of >3 LF, 10 SF or 3 CF of RACM. Montana also requires a project design by a Montana-accredited project designer, final visual clearance inspection(s), and air clearance monitoring for all permitted asbestos abatement projects.

A copy of this asbestos survey should be kept on the project during renovation activities and made available to State of Montana representatives upon request.

5.0 LIMITATIONS

This asbestos survey report was prepared based on information obtained during the survey, and interpretation of the laboratory results of bulk samples of building materials collected during the survey. The conclusions of this report are professional opinions based solely upon visual site observations and interpretations of laboratory analyses and field data as described in our report.

This report has been prepared to provide information concerning the various types and estimated quantities of ACBMs present at this site. It includes only those materials that were visible and accessible at the time of our inspection. We did not remove any permanent building enclosures or disassemble any equipment to determine if any ACBMs were present. No samples were collected if the mechanical integrity of the material would be compromised. As a result, additional ACBMs may be present in inaccessible areas (e.g., between walls, beneath floors, etc.) of the buildings. Permanent building enclosures were not opened or disassembled for inspection and additional ACBMs may also be present in these areas.

This survey and report is intended to identify and assess ACBMs. It is not intended to be used for purposes of obtaining bids for removal from abatement contractors.

Our opinions are intended exclusively for use by A&E, LLC. The scope of services provided by Northern may not be appropriate to satisfy the needs of other users, and any use or re-use of this document, or the findings presented herein, is at the sole risk of the user.

The opinions presented herein apply to the site conditions existing at the time of our investigation. Therefore, our opinions and recommendations may not apply to future conditions that may exist at the site that we have not had the opportunity to evaluate.

6.0 REFERENCES

Environmental Protection Agency (EPA)
National Emission Standard for Hazardous Air Pollutants, 40 CFR 61 Subpart M.

Environmental Protection Agency (EPA)
Asbestos Hazard Emergency Response Act (AHERA), 40 CFR 763.

Occupational Safety and Health Administration (OSHA)
Construction Industry Standard (1994), 29 CFR 1926.1101.

State of Montana Asbestos Regulations
Administrative Rules of Montana, Title 17, Chapter 74, Subchapter 3

TABLES

Table 1 - Summary of Materials Suspected to Contain Asbestos

Table 2 - Summary of Confirmed or Assumed Asbestos-Containing Materials and Recommended Response Action

TABLE 1
SUMMARY OF MATERIALS SUSPECTED TO CONTAIN ASBESTOS AND LABORATORY RESULTS
Former Livingston Hospital
504 South 13th Street
Livingston, Montana

Material Number	Material Description	Material Sample Locations	Laboratory Results
D - 1	**Paper Debris**	**East Crawlspace**	**45% Chrysotile**
D - 2	Hard Fitting Debris - White	East Crawlspace	ND
D - 3	**Paper Debris - White**	**Laundry Crawlspace**	**25% Chrysotile**
D - 4	**Paper Debris - Brown**	**Laundry Crawlspace**	**3% Chrysotile**
D - 5	**Paper Debris - Brown & White**	**Dining Area Crawlspace**	**Layer 1 45% Chrysotile / Layer 2 2% Chrysotile**
D - 6	**Magnesia Debris**	**Dining Area Crawlspace**	**5% Amosite / 35% Chrysotile**
F1.1	**Vinyl Sheet Flooring - Tan Tile Pattern (under carpet)**	**Room 023**	Carpet Mastic ND / **VSF 10% Chrysotile** / Mastic: ND
F1.2	Vinyl Sheet Flooring - Beige	Room 011	All Layers ND
F1.3	Vinyl Sheet Flooring - Beige & Brown w/Mastic	Room 104A	All Layers ND
F1.4	Vinyl Sheet Flooring - Purple & Gray w/Mastic	Room 109	All Layers ND
F1.6	Vinyl Sheet Flooring - 12"x12" White Tile Pattern w/Mastic	Room 161	ND
F2.1	12"x12" Vinyl Floor Tile - Beige w/Black Dots	Rooms 019, 020, 024	All Layers ND
F2.2	12'x12" Floor Tile - Pink w/Black Spots	Rooms 007, 009	All Layers ND
F2.3	12"x12" Floor Tile - White w/Gray Specs	Room 010	All Layers ND
F2.4	12"x12" Floor Tile - White w/Gray Marble Pattern	Rooms 002, 029	All Layers ND

Confirmed or Assumed Asbestos Containing Materials in Bold Type

ND = Non Detected
NS = Not Sampled

* Some material numbers used more than once.

TABLE 1
SUMMARY OF MATERIALS SUSPECTED TO CONTAIN ASBESTOS AND LABORATORY RESULTS
Former Livingston Hospital
504 South 13th Street
Livingston, Montana

Material Number	Material Description	Material Sample Locations	Laboratory Results
F2.5	12"x12" Floor Tile - White with Beige Specks w/Yellow Mastic & Leveling Compound	Room 101	All Layers ND
F2.6	**12"x12" Floor Tile - Purple Marbled w/Mastic**	**Rooms 101, 107, 204**	**Tile ND / Mastic 2% Chrysotile**
F2.7	12"x12" Floor Tile - Green Marbled & Mastic	Room 101	All Layers ND
F2.8	**12"x12" Floor Tile - Ivory with Tan Marbling w/Mastic**	**Rooms 133, 138**	**Tile ND / Mastic 5% Chrysotile**
F2.9	12"x12" Floor Tile - White w/Gray Marbled w/Mastic	Rooms 104, 134	All Layers ND
F2.10	12"x12" Floor tile - Lt Blue Marbled w/Mastic	Room 107	All Layers ND
F2.11	**12"x12" Floor Tile - Off-white & Tan Marbled w/Mastic**	**Rooms 145, 163, 174**	**Tile ND / Mastic 3% Chrysotile**
F2.12	**12"x12" Floor Tile - Rose Marbled w/Mastic**	**Rooms 130, 203**	**Tile 2% Chrysotile / Mastic 3% Chrysotile**
F2.13	12"x12" Floor Tile - White w/Green & Brow Specks w/Mastic	Room 202	All Layers ND
F2.14	12"x12" Floor Tile - Brown Marbled & Mastic	Room 202	All Layers ND
F2.15	12"x12" Floor Tile - White with Blue Specks w/Mastic	Room 107	All Layers ND
F2.16	**12'x12" Floor Tile - White & Black Granite w/Mastic**	**Room 151**	**Tile ND / Mastic 5% Chrysotile**

Confirmed or Assumed Asbestos Containing Materials in Bold Type

ND = Non Detected

* Some material numbers used more than once.

NS = Not Sampled

TABLE 1
SUMMARY OF MATERIALS SUSPECTED TO CONTAIN ASBESTOS AND LABORATORY RESULTS
Former Livingston Hospital
504 South 13th Street
Livingston, Montana

Material Number	Material Description	Material Sample Locations	Laboratory Results
F3.1	**9"x9" Floor Tile - Brown with Black Streaks w/Mastic (residual black and brown mastic present on tile)**	**Room 009**	**Residual Mastic 4% Chrysotile / Tile 6% Chrysotile / Mastic 8% Chrysotile**
F3.2	**9"x9" Floor Tile - Lt. Brown with Brown Streaks w/Mastic**	**Room 006**	**Tile 6% Chrysotile / Mastic 5% Chrysotile**
F3.3	**9"x9" Floor Tile - Green w/Mastic**	**Room 029**	**Tile 5% Chrysotile / Mastic 4% Chrysotile**
F3.3*	**9"x9" Floor Tile - Red w/Mastic**	**Room 106**	**Tile 8% Chrysotile / Mastic 5% Chrysotile**
F3.4	**9"x9" Floor Tile - Tan w/Mastic**	**Room 160**	**Tile 5% Chrysotile / Mastic 4% Chrysotile**
F3.4*	**9"x9" Floor Tile - Gray w/Mastic**	**Room 160**	**Tile 5% Chrysotile / Mastic 4% Chrysotile**
F3.5	**9"x9" Floor Tile - Green w/Mastic**	**Room 201**	**Tile: 6% Chrysotile Mastic: 8% Chrysotile**
F5.1	Carpet - Teal w/Mastic	Room 022	All Layers ND
F5.2	Carpet - Blue	Rooms 017, 018	ND
F5.3	Carpet - Brown w/Mastic	Rooms 137, 159, 189	All Layers ND
F5.4	Carpet - Blue w/Mastic	Rooms 160, 162, 190	All Layers ND
F6.1	Leveling Compound	Room 018	ND
F7.1	1"x1" Ceramic Tile - Brown w/Grout	Rooms 164, 172, 185	All Layers ND

Confirmed or Assumed Asbestos Containing Materials in Bold Type

* Some material numbers used more than once.

ND = Non Detected
NS = Not Sampled

TABLE 1
SUMMARY OF MATERIALS SUSPECTED TO CONTAIN ASBESTOS AND LABORATORY RESULTS
Former Livingston Hospital
504 South 13th Street
Livingston, Montana

Material Number	Material Description	Material Sample Locations	Laboratory Results
F8.1	6"x6" Ceramic Tile - Red w/Grout	Rooms 100, 100A	All Layers ND
F9.1	**4"x2' Floor Tile - Brown w/Mastic**	**Rooms 103, 183**	**Tile ND / Mastic 4% Crocidolite**
M3.1	Gypsum Board Assembly	Boiler Room	All Layers ND
M3.2	Sheetrock & Joint Compound - Orig. Building	Rooms 137, 157, 165	All Layers ND
M3.3	Gypsum Board Assembly - Addition	Rooms 015, 016, 106A	All Layers ND
M3.4	Sheetrock & Joint Compound - 1989 Addition	Rooms 184, 185, 188	All Layers ND
M3.5	Gypsum Board - Behind Plaster	Rooms 101, 127, 151	All Layers ND
M4.1	**Transite Wall Board (Assumed ACM)**	**Refrigeration Rooms**	**NS - Assumed**
M5.1	2'x4' Ceiling Panel - Medium Fissure and Pinhole	Room 021	ND
M5.2	2'x4' Ceiling Panel - Heavy Texture, Fissure & Pinholes	Room 024	ND
M5.3	2'x4' Ceiling Panel, Light Texture, Fissure Pinhole	Room 022	ND
M5.4	2'x4' Ceiling Panel - Pinhole and Small Fissure	Room 020	ND
M5.5	2'x4' Ceiling Panel - 5"x5" Pattern	Rooms 017, 018	ND
M5.6	2'x4' Ceiling Panel - Deep Fissure, Pinhole, Light Texture	Rooms 014, 017	ND

Confirmed or Assumed Asbestos Containing Materials in Bold Type

ND = Non Detected
NS = Not Sampled

* Some material numbers used more than once.

TABLE 1
SUMMARY OF MATERIALS SUSPECTED TO CONTAIN ASBESTOS AND LABORATORY RESULTS
Former Livingston Hospital
504 South 13th Street
Livingston, Montana

Material Number	Material Description	Material Sample Locations	Laboratory Results
M5.7	2'x4' Gypsum Board Panel W/Vinyl Cover	Room 002	All Layers ND
M6.1	1'x1' Ceiling Tile - Wood-based, Mechanically Fastened (not suspect)	Basement	NS
M6.2	1'x1' Ceiling Tile - White w/Heavy Fissures & Brown Mastic	Rooms 103, 153	All Layers ND
M6.3	1'x1' Ceiling Tile - Patterned Holes & Brown Mastic	Room 106	All Layers ND
M6.4	1'x1' Ceiling Tile - White w/Heavy Fissures & Black Mastic	Room 194	All Layers ND
M7.1	Plaster Wall System - Over Expanded Metal & Gypsum Board	Rooms 101, 140, 127, 162, 193	ND
M8.1	**Window Caulk - Gray w/White**	**Rooms 146, 149, 155**	**8% Chrysotile**
M8.2	**Window Glazing Compound - White**	**Rooms 106, 196, 201**	**4% Chrysotile**
M8.3	**Window Caulk - White**	**Rooms 106, 196, 201**	**12% Chrysotile**
M8.4	Window Glazing - Brown Vinyl	Rooms 146, 149, 155	ND
M8.5	4"x4" Ceramic Tile - White w/Mastic & Grout	Rooms 164, 172, 185	All Layers ND
M10.1	**Sink Undercoating - Black**	**Rooms 111, 126, 127**	**4% Chrysotile**
M10.2	Sink Undercoating - White	Rooms 157, 158, 195	ND
M10.3	Sink Undercoating - Grey	Rooms 159, 205	ND

Confirmed or Assumed Asbestos Containing Materials in Bold Type

ND = Non Detected
NS = Not Sampled

* Some material numbers used more than once.

TABLE 1
SUMMARY OF MATERIALS SUSPECTED TO CONTAIN ASBESTOS AND LABORATORY RESULTS
Former Livingston Hospital
504 South 13th Street
Livingston, Montana

Material Number	Material Description	Material Sample Locations	Laboratory Results
M12.1	4" Cove Base - Light Brown w/Mastic	Room 022	All Layers ND
M12.2	4" Cove Base - Beige w/White Adhesive	Room 014	All Layers ND
M12.3	4" Black Cove Base w/Brown Adhesive	Room 009	All Layers ND
M12.4	4" Vinyl Cove Base - Brown w/Lt. Brown Mastic	Rooms 104A, 179, 203	All Layers ND
M12.5	Cove Base Mastic - White w/Mastic	Rooms 110, 126, 205	All Layers ND
M12.6	Cove Base Mastic - Yellowish Brown	Room 116	All Layers ND
M16.1	Concrete	Boiler Room	All Layers ND
M16.2	Concrete - Addition	Room 016	All Layers ND
M16.3	Concrete - 1989 Addition	Exterior Foundation Wall	All Layers ND
M17.1	Brick/Mortar	Incinerator Exterior	All Layers ND
M17.2	Firebrick/Mortar	Incinerator Interior	ND
M17.3	Red Clay Block & Mortar	Rooms 101, 163, 170	All Layers ND
M17.4	Light Brown Brick & Mortar - Exterior	Rooms 122, 154, 192	All Layers ND
M18.1	Concrete Block/Mortar	Boiler Room	All Layers ND

Confirmed or Assumed Asbestos Containing Materials in Bold Type

* Some material numbers used more than once.

ND = Non Detected
NS = Not Sampled

TABLE 1
SUMMARY OF MATERIALS SUSPECTED TO CONTAIN ASBESTOS AND LABORATORY RESULTS
Former Livingston Hospital
504 South 13th Street
Livingston, Montana

Material Number	Material Description	Material Sample Locations	Laboratory Results
M19.1	Fiberglass Reinforced Plastic	Room 002	All Layers ND
M19.1*	4"x4" Ceramic Tile - Green w/Mortar and Grout	Rooms 122, 123, 124	All Layers ND
T1.1	Boiler Ribbon Gasket	Large Boiler	ND
T1.2	Boiler Ribbon Gasket - White	Small Boiler	ND
T1.3	Boiler Flange Gasket - Red	Small Boiler	ND
T1.4	Pipe Flange Gasket - White	Small Boiler	ND
T1.5	Flange Gasket - Red	Main Water Line	ND
T2.1	**Mudded Fitting - Original**	**Boiler Room, Room 200**	**12% Chrysotile / 8% Amosite**
T2.2	Mudded Pipe Fitting Insulation on Fiberglass Insulated Straight Run Piping	Boiler Room	ND
T3.1	Metal-foil Faced Fiberglass Straight Run Pipe Insulation on Mechanical System Lines (not suspect)	Boiler Room	NS
T3.2	Paper & Metal-foil Faced Fiberglass Straight Run Pipe Insulation on Domestic System Lines (not suspect)	Boiler Room	NS
T3.3	**Magnesia Straight Run Pipe Insulation**	**Boiler Room**	**12% Chrysotile / 8% Amosite**
T3.4	**Air-Cell Straight Run Pipe Insulation (Assumed ACM)**	**Boiler Room**	**NS - Assumed**
T3.5	**Duplex Straight Run Pipe Insulation**	**Boiler Room**	**5% Chrysotile**

Confirmed or Assumed Asbestos Containing Materials in Bold Type

ND = Non Detected
NS = Not Sampled

* Some material numbers used more than once.

TABLE 1
SUMMARY OF MATERIALS SUSPECTED TO CONTAIN ASBESTOS AND LABORATORY RESULTS
Former Livingston Hospital
504 South 13th Street
Livingston, Montana

Material Number	Material Description	Material Sample Locations	Laboratory Results
T7.1	Boiler Breaching	Boiler Room	ND
T8.1	Vibration Joint Collar Black	Room 029	ND
T9.1	Gray Duct Sealant	Room 016	ND
T11.1	Red Fire Stop	Room 026	ND
T12.1	**Roof Drain Bowl Insulation**	**Room 101**	**15% Chrysotile / 8% Amosite**

Confirmed or Assumed Asbestos Containing Materials in Bold Type

ND = Non Detected

* Some material numbers used more than once.

NS = Not Sampled

TABLE 2
SUMMARY OF CONFIRMED OR ASSUMED ASBESTOS-CONTAINING MATERIALS AND RECOMMENDED RESPONSE ACTION
Former Livingston Hospital
504 South 13th Street
Livingston, Montana

Material Number	Material Description	NESHAP Category	Recommended Response Action
F1.1	Vinyl Sheet Flooring - Tan Tile Pattern	RACM	Retain Accredited Asbestos Abatement Contractor to Remove Prior to Conducting Any Renovation or Demolition Work That Will Impact The Asbestos-Containing Materials
F2.6	12"x12" Floor Tile - Purple Marbled (Tile ND) w/Black Mastic	Category I	
F2.8	12"x12" Floor Tile - Ivory with Tan marbling (Tile ND) w/Black Mastic	Category I	
F2.11	12"x12" Floor Tile - Off White with Tan Marbling (Tile ND) w/Black Mastic	Category I	
F2.12	12"x12" Floor Tile - Rose Marbled w/Black Mastic	Category I	
F2.16	12"x12" Floor Tile - White with Black Granite Pattern (Tile ND) w/Black Mastic	Category I	
F3.1	9"x9" Floor Tile - Brown with Black Streaks w/Black Mastic	Category I	
F3.2	9"x9" Floor Tile - Lt. Brown with Streaks w/Black Mastic	Category I	

Category I Nonfriable ACM such as packings, gaskets, resilient floor covering, and asphalt roofing products.

Category II All nonfriable ACM, excluding Category I materials.

RACM Friable ACM; Category I material that has become friable; Category I material that will be subjected to sanding, grinding, cutting, or abrading; or Category II material that has a high probability of becoming friable.

TABLE 2
SUMMARY OF CONFIRMED OR ASSUMED ASBESTOS-CONTAINING MATERIALS AND RECOMMENDED RESPONSE ACTION
Former Livingston Hospital
504 South 13th Street
Livingston, Montana

Material Number	Material Description	NESHAP Category	Recommended Response Action
F3.3	9"x9" Floor Tile - Green w/Black Mastic	Category I	Retain Accredited Asbestos Abatement Contractor to Remove Prior to Conducting Any Renovation or Demolition Work That Will Impact The Asbestos-Containing Materials
F3.3*	9"x9" Floor Tile - Red w/Black Mastic	Category I	
F3.4	9"x9" Floor Tile - Tan w/Black Mastic	Category I	
F3.4*	9"x9" Floor Tile - Gray w/ Black Mastic	Category I	
F3.5	9"x9" Floor Tile - Green with White Streaks w/Black Mastic	Category I	
F9.1	4"x2' Floor Tile (brown) & Mastic (black)	Category I	
M4.1	Transite Wall Board (Assumed ACM)	Category II	
M8.1	Window Caulk - Gray w/White	Category II	

Category I Nonfriable ACM such as packings, gaskets, resilient floor covering, and asphalt roofing products.

Category II All nonfriable ACM, excluding Category I materials.

RACM Friable ACM; Category I material that has become friable; Category I material that will be subjected to sanding, grinding, cutting, or abrading; or Category II material that has a high probability of becoming friable.

TABLE 2
SUMMARY OF CONFIRMED OR ASSUMED ASBESTOS-CONTAINING MATERIALS AND RECOMMENDED RESPONSE ACTION
Former Livingston Hospital
504 South 13th Street
Livingston, Montana

Material Number	Material Description	NESHAP Category	Recommended Response Action
M8.2	Window Glazing Compound - White	RACM	Retain Accredited Asbestos Abatement Contractor to Remove Prior to Conducting Any Renovation or Demolition Work That Will Impact The Asbestos-Containing Materials
M8.3	Window Caulk - White	Category II	
M10.1	Sink Undercoating - Black	Category II	
T2.1	Mudded Fitting - Original	RACM	
T3.3	Magnesia Straight Run Pipe Insulation	RACM	
T3.4	Air Cell Straight Run Pipe Insulation (Assumed ACM)	RACM	
T3.5	Duplex Straight Run Pipe Insulation	RACM	
T12.1	Roof Drain Bowl Insulation	RACM	

Category I Nonfriable ACM such as packings, gaskets, resilient floor covering, and asphalt roofing products.

Category II All nonfriable ACM, excluding Category I materials.

RACM Friable ACM; Category I material that has become friable; Category I material that will be subjected to sanding, grinding, cutting, or abrading; or Category II material that has a high probability of becoming friable.

TABLE 2
SUMMARY OF CONFIRMED OR ASSUMED ASBESTOS-CONTAINING MATERIALS AND RECOMMENDED RESPONSE ACTION
Former Livingston Hospital
504 South 13th Street
Livingston, Montana

Material Number	Material Description	NESHAP Category	Recommended Response Action
D - 1	Paper Debris in East Crawlspace	RACM	Restrict Access to Asbestos Debris Contaminated Crawlspaces to Authorized Personnel Wearing Appropriate Personal Protective Equipment as Required by OSHA.
D - 3	White Paper Debris in Laundry Crawlspace	RACM	
D - 4	Brown Paper Debris in Laundry Crawlspace	RACM	
D - 5	Brown and White Paper Debris in Dining Area Crawlspace	RACM	
D - 6	Magnesia Debris in Dining Area Crawlspace	RACM	

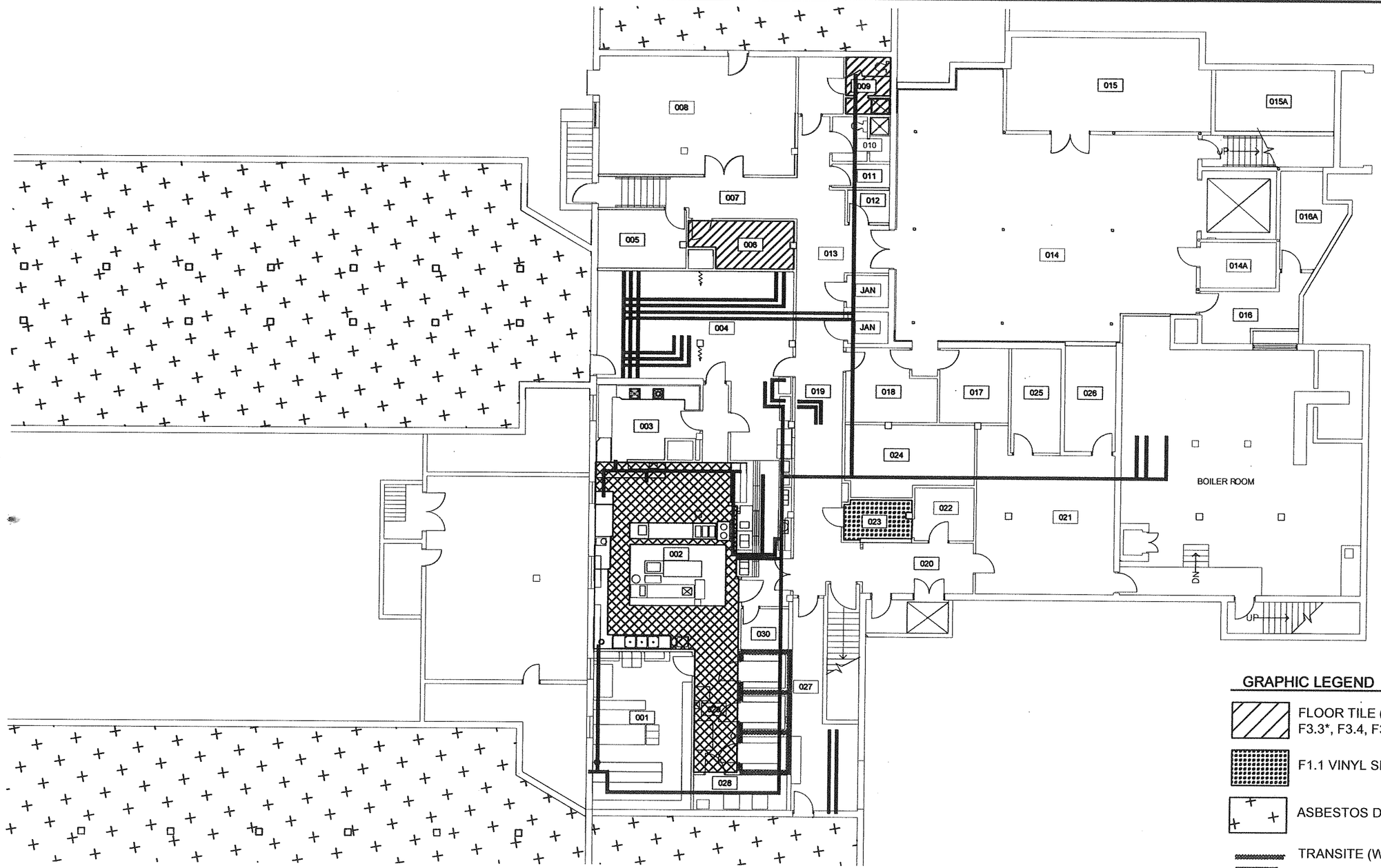
Category I Nonfriable ACM such as packings, gaskets, resilient floor covering, and asphalt roofing products.

Category II All nonfriable ACM, excluding Category I materials.

RACM Friable ACM; Category I material that has become friable; Category I material that will be subjected to sanding, grinding, cutting, or abrading; or Category II material that has a high probability of becoming friable.

FIGURES

Figure Set 1 - Asbestos-Containing Building Material Location Drawings



GRAPHIC LEGEND

- FLOOR TILE (F2.12, F3.1, F3.2, F3.3, F3.3*, F3.4, F3.4*, F3.5)
- F1.1 VINYL SHEET FLOORING
- ASBESTOS DEBRIS
- TRANSITE (WALL AND CEILING)
- ACM THERMAL SYSTEM INSULATION W/ ACM MUDDED JOINTS/ FITTINGS
- ROOF DRAIN BOWL

GROUND FLOOR MATERIAL LOCATION PLAN

SCALE: 1/16" = 1'-0"

NORTHERN INDUSTRIAL HYGIENE, INC.

DATE:	03/08/16	PROJECT NAME:	FORMER LIVINGSTON HOSPITAL
DRAWN BY:	CS		
CHK BY:	KO	LOCATION:	LIVINGSTON, MT
CAD FILE:	999-3019.dwg	NIH PROJECT NUMBER:	999-3019

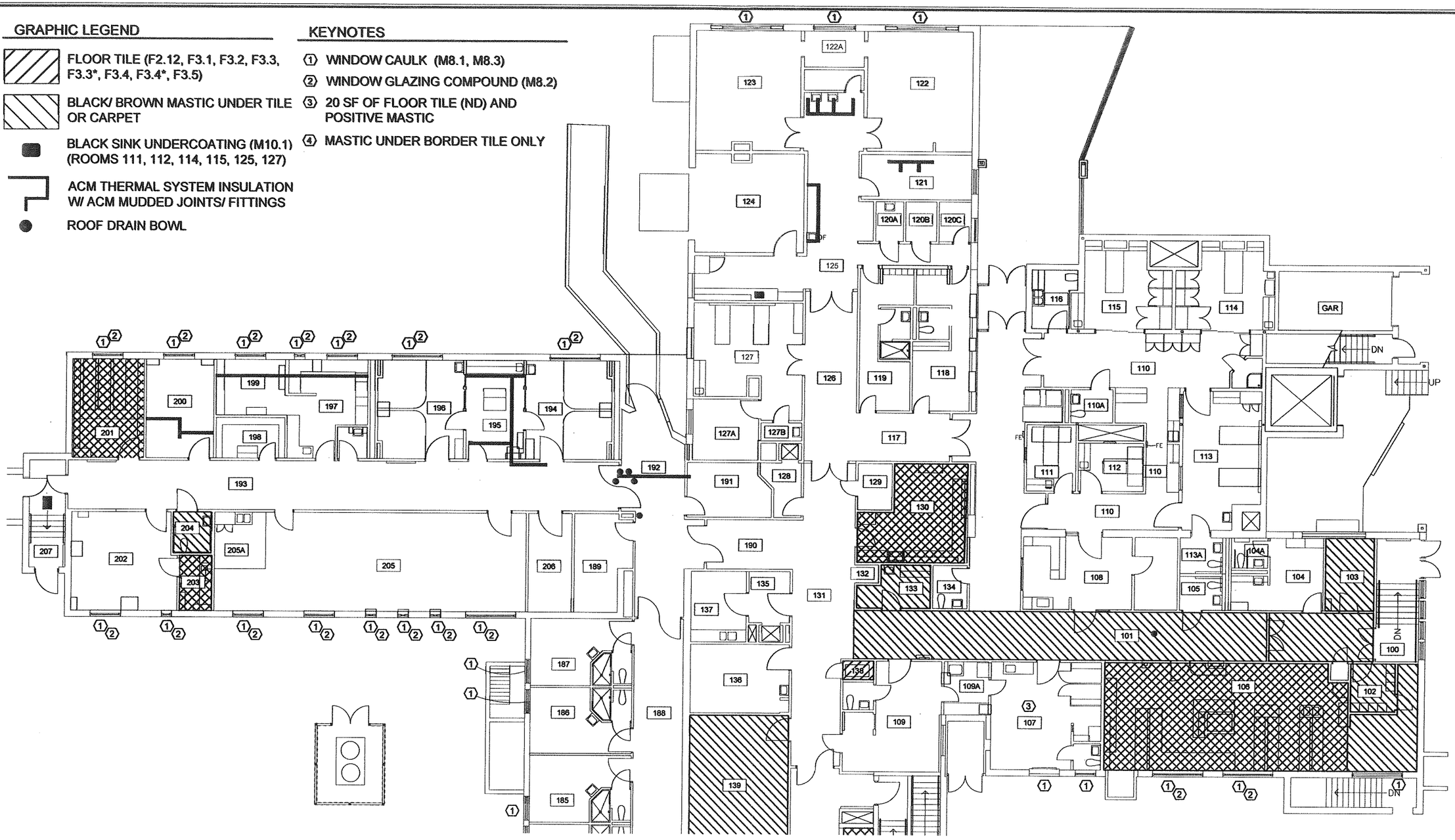
FIG. 1.1: GROUND FLOOR ASBESTOS MATERIAL LOCATION PLAN

GRAPHIC LEGEND

- FLOOR TILE (F2.12, F3.1, F3.2, F3.3, F3.3*, F3.4, F3.4*, F3.5)
- BLACK/ BROWN MASTIC UNDER TILE OR CARPET
- BLACK SINK UNDERCOATING (M10.1) (ROOMS 111, 112, 114, 115, 125, 127)
- ACM THERMAL SYSTEM INSULATION W/ ACM MUDDED JOINTS/ FITTINGS
- ROOF DRAIN BOWL

KEYNOTES

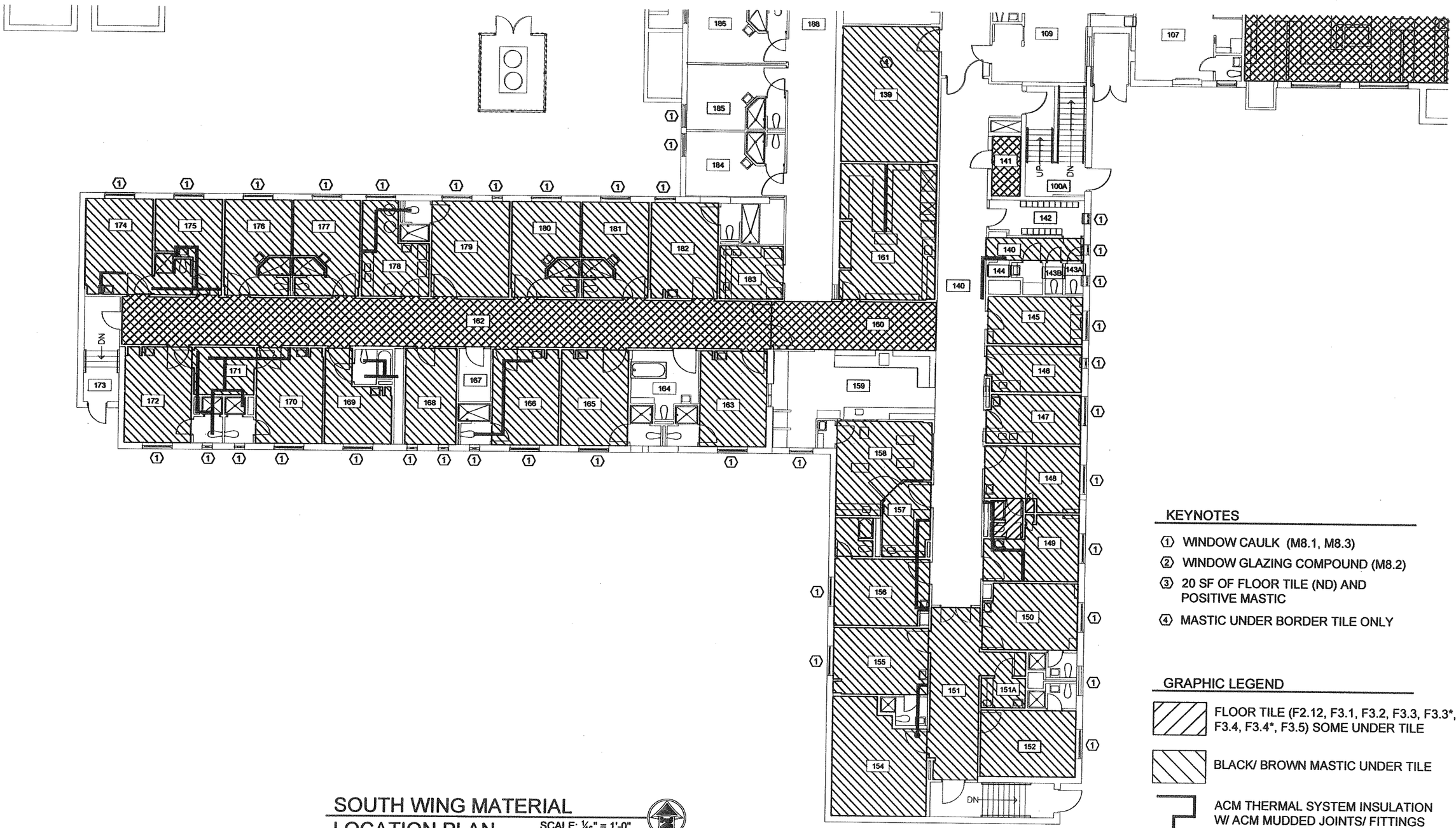
1. WINDOW CAULK (M8.1, M8.3)
2. WINDOW GLAZING COMPOUND (M8.2)
3. 20 SF OF FLOOR TILE (ND) AND POSITIVE MASTIC
4. MASTIC UNDER BORDER TILE ONLY



NORTH WING MATERIAL LOCATION PLAN

SCALE: 1/16" = 1'-0"

NORTHERN INDUSTRIAL HYGIENE, INC.	DATE: 03/08/16 DRAWN BY: CS CHK BY: KO CAD FILE: 999-3019.dwg	PROJECT NAME: FORMER LIVINGSTON HOSPITAL LOCATION: LIVINGSTON, MT NIH PROJECT NUMBER: 999-3019	FIG. 2.1: NORTH WING ASBESTOS MATERIAL LOCATION PLAN



KEYNOTES

1. WINDOW CAULK (M8.1, M8.3)
2. WINDOW GLAZING COMPOUND (M8.2)
3. 20 SF OF FLOOR TILE (ND) AND POSITIVE MASTIC
4. MASTIC UNDER BORDER TILE ONLY

GRAPHIC LEGEND

- FLOOR TILE (F2.12, F3.1, F3.2, F3.3, F3.3*, F3.4, F3.4*, F3.5) SOME UNDER TILE
- BLACK/ BROWN MASTIC UNDER TILE
- ACM THERMAL SYSTEM INSULATION W/ ACM MUDDED JOINTS/ FITTINGS
- ROOF DRAIN BOWL

SOUTH WING MATERIAL LOCATION PLAN

SCALE: 1/16" = 1'-0"

NORTHERN INDUSTRIAL HYGIENE, INC.

DATE:	03/08/16	PROJECT NAME:	FORMER LIVINGSTON HOSPITAL
DRAWN BY:	CS		
CHK BY:	KO	LOCATION:	LIVINGSTON, MT
CAD FILE:	999-3019.dwg	NIH PROJECT NUMBER:	999-3019

FIG. 2.2: SOUTH WING ASBESTOS MATERIAL LOCATION PLAN

APPENDIX A

ASBESTOS LABORATORY ANALYSIS REPORTS

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
EMAIL: Rmelgoza@bridgeband.com
NVLAP Lab Code: 200511-0

1/5/2016

Kevin Oliver
Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-

RE: Bulk Asbestos Fiber Analysis; Batch # 16-00005
Project Location *Old Livingston Hospital-Basement*

Dear Kevin Oliver,

Thank you for choosing Northern Industrial Hygiene, Inc. as your laboratory. Enclosed you will find analytical results for the bulk samples submitted to the laboratory.

Northern Industrial Hygiene is accredited by NVLAP Lab Code: 200511-0. Accreditation by NVLAP does not indicate endorsement by NVLAP or any other government agency. All bulk samples are analyzed in accordance with U.S. EPA Method -600/M4-82-020, December 1982 and EPA Method 600/R-93-116, July 1993. "Method for Determination of Asbestos in Bulk Building Materials"(NESHAP, 40 CFR-Part 61) protocol.

Analysis is cross checked through our inter or intra laboratory quality assurance program for verification. The percent values reported are based on calibrated visual estimates by volume unless verification by Point Count is indicated. Test results reported relate only to the samples submitted by the customer to Northern Industrial Hygiene, Inc. Trace amounts of asbestos are below the limit of detection and asbestos fibers with diameters below approximately 0.25 micrometers are not detectable with the Polarized Light Microscopy (PLM) analytical procedure. A trace amount of asbestos is defined as one to five fibers in three slide mounts. Asbestos found in this amount will be reported as "< 1.0%" by PLM analysis.

This report is highly confidential and shall not be reproduced without your written approval and the written approval of Northern Industrial Hygiene, Inc.

Samples are archived for thirty (30) days following analysis. Please contact us if samples need to be archived longer than the standard holding time.

Thank you for using Northern Industrial Hygiene, Inc. If you have any questions or concerns please contact us.

Sincerely,

Jude Cummings

Reviewed by: Jude Cummings

Enclosure: Bulk Sample Results

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00005**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **30**

Client Sample Number: **M3.1A**
Client Sample Description: **Gypsum Board Assembly**
Client Sample Location: **Boiler Room**
Sample Comments:

Lab Sample Number: **16-00005.0001**
Checked If Sample Not Analyzed ☐

Layer 1 **White powdery compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	98% Filler and Binder

Layer 2 **White papery material with white powdery residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	90% Cellulose	10% Filler and Binder

Layer 3 **Brown papery on white compressed powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	15% Cellulose 2% Fiberglass	83% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **M3.1B**
Client Sample Description: **Gypsum Board Assembly**
Client Sample Location: **Boiler Room**
Sample Comments:

Lab Sample Number: **16-00005.0002**
Checked If Sample Not Analyzed ☐

Layer 1 **White compressed powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	5% Cellulose	95% Filler and Binder

Layer 2 **White papery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	95% Cellulose	5% Filler and Binder

Layer 3 **Brown papery on white compressed powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	15% Cellulose 2% Fiberglass	83% Filler and Binder

Comments: **Materials distinguishable but inseparable**

(Sample results continued on next page.)

Sampled by: Kevin Oliver **12/30/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/5/2016**

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00005**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **30**

Client Sample Number: **M3.1C**
Client Sample Description: **Gypsum Board Assembly**
Client Sample Location: **Boiler Room**
Sample Comments:

Lab Sample Number: **16-00005.0003**
Checked If Sample Not Analyzed ☐

Layer 1 **White powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	98% Filler and Binder

Layer 2 **White papery material with white powdery residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	88% Cellulose	12% Filler and Binder

Layer 3 **Brown papery on white compressed powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	15% Cellulose	83% Filler and Binder
	2% Fiberglass	

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **M5.1A**
Client Sample Description: **2'x4' Medium Fissure & Pinhole Ceiling Panel**
Client Sample Location: **Room 021**
Sample Comments: **Materials distinguishable but inseparable**

Lab Sample Number: **16-00005.0004**
Checked If Sample Not Analyzed ☐

White paint on off-white fibrous compressed material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	30% Cellulose	3% Paint
	20% Mineral Wool and Beads	47% Filler and Binder

Client Sample Number: **M5.1B**
Client Sample Description: **2'x4' Medium Fissure & Pinhole Ceiling Panel**
Client Sample Location: **Room 021**
Sample Comments: **Materials distinguishable but inseparable**

Lab Sample Number: **16-00005.0005**
Checked If Sample Not Analyzed ☐

White paint on off-white fibrous compressed material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	30% Cellulose	3% Paint
	20% Mineral Wool and Beads	47% Filler and Binder

(Sample results continued on next page.)

Sampled by: Kevin Oliver **12/30/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/5/2016**

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

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Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00005**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **30**

Client Sample Number: **M5.1C**
Client Sample Description: **2'x4' Medium Fissure & Pinhole Ceiling Panel**
Client Sample Location: **Room 021**
Sample Comments:

Lab Sample Number: **16-00005.0006**
Checked If Sample Not Analyzed ☐

Off-white compressed fibrous material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	32% Cellulose	48% Filler and Binder
	20% Mineral Wool and Beads	

Client Sample Number: **T11.1A**
Client Sample Description: **Red Fire Stop**
Client Sample Location: **Room 026**
Sample Comments:

Lab Sample Number: **16-00005.0007**
Checked If Sample Not Analyzed ☐

Red soft sticky material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	5% Synthetic	85% Filler and Binder
	10% Cellulose	

Client Sample Number: **T11.1B**
Client Sample Description: **Red Fire Stop**
Client Sample Location: **Room 026**
Sample Comments:

Lab Sample Number: **16-00005.0008**
Checked If Sample Not Analyzed ☐

Red soft flexible material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	10% Cellulose	85% Filler and Binder
	5% Synthetic	

Client Sample Number: **T11.1C**
Client Sample Description: **Red Fire Stop**
Client Sample Location: **Room 026**
Sample Comments:

Lab Sample Number: **16-00005.0009**
Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/5/2016

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00005**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **30**

Red soft flexible material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	10% Cellulose	85% Filler and Binder
	5% Synthetic	

Client Sample Number: **F2.1A**
Client Sample Description: **12"x12" VFT - Beige W/Black Dots**
Client Sample Location: **Room 020**
Sample Comments:
Lab Sample Number: **16-00005.0010**
Checked If Sample Not Analyzed ☐

Layer 1 **Tan vinyl with black spots**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Layer 2 **Opaque sticky material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	3% Cellulose	97% Filler and Binder

Client Sample Number: **F2.1B**
Client Sample Description: **12"x12" VFT - Beige W/Black Dots**
Client Sample Location: **Room 024**
Sample Comments:
Lab Sample Number: **16-00005.0011**
Checked If Sample Not Analyzed ☐

Layer 1 **Tan vinyl with black spots**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Layer 2 **Opaque sticky material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	10% Cellulose	90% Filler and Binder

Client Sample Number: **F2.1C**
Client Sample Description: **12"x12" VFT - Beige W/Black Dots**
Client Sample Location: **Room 019**
Sample Comments:
Lab Sample Number: **16-00005.0012**
Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/5/2016

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00005**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **30**

Layer 1 **Tan vinyl with black spots**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Aggregate
70% Vinyl Filler and Binder

Layer 2 **Opaque sticky material with gray residue**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
100% Filler and Binder

Client Sample Number: **F5.1A**
Client Sample Description: **Carpet - Teal**
Client Sample Location: **Room 022**
Sample Comments:

Lab Sample Number: **16-00005.0013**
Checked If Sample Not Analyzed ☐

Layer 1 **Blue, white and black carpet fibers**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:
95% Synthetic

Non-Fibrous Components:
5% Filler and Binder

Layer 2 **Brown mastic**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:
6% Synthetic

Non-Fibrous Components:
94% Filler and Binder

Client Sample Number: **F5.1B**
Client Sample Description: **Carpet - Teal**
Client Sample Location: **Room 022**
Sample Comments:

Lab Sample Number: **16-00005.0014**
Checked If Sample Not Analyzed ☐

Layer 1 **Blue, white and black carpet fibers**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:
98% Synthetic

Non-Fibrous Components:
2% Miscellaneous Particles

Layer 2 **Brown mastic**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:
10% Synthetic

Non-Fibrous Components:
90% Filler and Binder

Client Sample Number: **F5.1C**
Client Sample Description: **Carpet - Teal**
Client Sample Location: **Room 022**
Sample Comments:

Lab Sample Number: **16-00005.0015**
Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver **12/30/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/5/2016**

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00005**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **30**

Layer 1 **Blue, white and black carpet fibers**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	90% Synthetic	4% Miscellaneous Particles
		6% Filler and Binder

Layer 2 **Brown mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	5% Synthetic	95% Filler and Binder

Client Sample Number: **M5.2A** Lab Sample Number: **16-00005.0016**
Client Sample Description: **2'x4' Heavy Texture - Fissure/Pinhole Ceiling Panel**
Client Sample Location: **Room 024**
Sample Comments: **Materials distinguishable but inseparable** Checked If Sample Not Analyzed ☐

White paint on off-white fibrous compressed material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	35% Cellulose	3% Paint
	15% Mineral Wool and Beads	47% Filler and Binder

Client Sample Number: **M5.2B** Lab Sample Number: **16-00005.0017**
Client Sample Description: **2'x4' Heavy Texture - Fissure/Pinhole Ceiling Panel**
Client Sample Location: **Room 024**
Sample Comments: **Materials distinguishable but inseparable** Checked If Sample Not Analyzed ☐

White paint on off-white fibrous compressed material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	35% Cellulose	2% Paint
	15% Mineral Wool and Beads	48% Filler and Binder

Client Sample Number: **M5.2C** Lab Sample Number: **16-00005.0018**
Client Sample Description: **2'x4' Heavy Texture - Fissure/Pinhole Ceiling Panel**
Client Sample Location: **Room 024**
Sample Comments: **Materials distinguishable but inseparable** Checked If Sample Not Analyzed ☐

White paint on off-white fibrous compressed material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	15% Mineral Wool and Beads	3% Paint
	35% Cellulose	47% Filler and Filler and Binder

(Sample results continued on next page.)

Sampled by: Kevin Oliver 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/5/2016

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00005**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **30**

Client Sample Number: **M5.3A** — Lab Sample Number: **16-00005.0019**
Client Sample Description: **2'x4' Light Texture - Fissure/Pinhole Ceiling Panel**
Client Sample Location: **Room 022**
Sample Comments: **Materials distinguishable but inseparable** — Checked If Sample Not Analyzed ☐

White paint on off-white fibrous compressed material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	35% Cellulose	2% Paint
	15% Mineral Wool and Beads	48% Filler and Binder

Client Sample Number: **M5.3B** — Lab Sample Number: **16-00005.0020**
Client Sample Description: **2'x4' Light Texture - Fissure/Pinhole Ceiling Panel**
Client Sample Location: **Room 022**
Sample Comments: **Materials distinguishable but inseparable** — Checked If Sample Not Analyzed ☐

White paint on off-white fibrous compressed material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	35% Cellulose	3% Paint
	15% Mineral Wool and Beads	47% Filler and Binder

Client Sample Number: **M5.3C** — Lab Sample Number: **16-00005.0021**
Client Sample Description: **2'x4' Light Texture - Fissure/Pinhole Ceiling Panel**
Client Sample Location: **Room 022**
Sample Comments: **Materials distinguishable but inseparable** — Checked If Sample Not Analyzed ☐

White paint on off-white fibrous compressed material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	35% Cellulose	4% Paint
	15% Mineral Wool and Beads	46% Filler and Binder

Client Sample Number: **M12.1A** — Lab Sample Number: **16-00005.0022**
Client Sample Description: **4" Cove Base - Light Brown**
Client Sample Location: **Room 022**
Sample Comments: — Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/5/2016

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00005**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **30**

Layer 1 **Gray vinyl**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components: 100% Vinyl Filler and Binder

Layer 2 **Tan mastic with white and papery residue**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components: 10% Cellulose

Non-Fibrous Components: 90% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **M12.1B**
Client Sample Description: **4" Cove Base - Light Brown**
Client Sample Location: **Room 022**
Sample Comments:

Lab Sample Number: **16-00005.0023**

Checked If Sample Not Analyzed ☐

Layer 1 **Gray vinyl**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components: 100% Vinyl Filler and Binder

Layer 2 **Tan mastic with white compressed residue**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components: 100% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Layer 3 **Green paint on tan mastic**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components: 35% Paint
65% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **M12.1C**
Client Sample Description: **4" Cove Base - Light Brown**
Client Sample Location: **Room 022**
Sample Comments:

Lab Sample Number: **16-00005.0024**

Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver **12/30/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/5/2016**

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00005**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **30**

Layer 1 **Gray vinyl**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
100% Vinyl Filler and Binder

Layer 2 **Tan mastic with green paint and white compressed powder**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
15% Paint
85% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Layer 3 **Brown papery material with tan mastic**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:
50% Cellulose

Non-Fibrous Components:
50% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **M5.4A**
Client Sample Description: **2'x4' Pinhole & Small Fissure Ceiling Panel**
Client Sample Location: **Room 020**
Sample Comments: **Materials distinguishable but inseparable**

Lab Sample Number: **16-00005.0025**
Checked If Sample Not Analyzed ☐

White paint on off-white fibrous compressed material

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:
35% Cellulose
15% Mineral Wool and Beads

Non-Fibrous Components:
2% Paint
48% Filler and Binder

Client Sample Number: **M5.4B**
Client Sample Description: **2'x4' Pinhole & Small Fissure Ceiling Panel**
Client Sample Location: **Room 020**
Sample Comments: **Materials distinguishable but inseparable**

Lab Sample Number: **16-00005.0026**
Checked If Sample Not Analyzed ☐

White paint on off-white fibrous compressed material

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:
35% Cellulose
15% Mineral Wool and Beads

Non-Fibrous Components:
3% Paint
47% Filler and Binder

(Sample results continued on next page.)

Sampled by: **Kevin Oliver** **12/30/2015**
Received by: **Regina Mirabal** **1/5/2016**
Analyzed by: **Jude Cummings** **1/5/2016**

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00005**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **30**

Client Sample Number: **M5.4C**
Client Sample Description: **2'x4' Pinhole & Small Fissure Ceiling Panel**
Client Sample Location: **Room 020**
Sample Comments: **Materials distinguishable but inseparable**

Lab Sample Number: **16-00005.0027**
Checked If Sample Not Analyzed ☐

White paint on off-white fibrous compressed material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	35% Cellulose	4% Paint
	15% Mineral Wool and Beads	46% Filler and Binder

Client Sample Number: **F2.2A**
Client Sample Description: **12"x12" Floor Tile - Pink W/Black Spots**
Client Sample Location: **Room 009**
Sample Comments:

Lab Sample Number: **16-00005.0028**
Checked If Sample Not Analyzed ☐

Layer 1 **Tan vinyl with black spots**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Layer 2 **Opaque mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Filler and Binder

Client Sample Number: **F2.2B**
Client Sample Description: **12"x12" Floor Tile - Pink W/Black Spots**
Client Sample Location: **Room 009**
Sample Comments:

Lab Sample Number: **16-00005.0029**
Checked If Sample Not Analyzed ☐

Layer 1 **Tan vinyl with black spots**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Layer 2 **Opaque mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	99% Filler and Binder

(Sample results continued on next page.)

Sampled by: Kevin Oliver 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/5/2016

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00005**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **30**

Client Sample Number: **F2.2C**
Client Sample Description: **12"x12" Floor Tile - Pink W/Black Spots**
Client Sample Location: **Room 007**
Sample Comments:

Lab Sample Number: **16-00005.0030**
Checked If Sample Not Analyzed ☐

Layer 1 **Tan vinyl with black spots**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate 70% Vinyl Filler and Binder

Layer 2 **Opaque and gray mastic with fibrous residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	3% Synthetic	97% Filler and Binder

Sampled by: Kevin Oliver 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/5/2016

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

Chain of Custody

NVLAP Lab Code 200511-0

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101
Office Phone: (406) 245-7766
Cell Phone: (406) 670-5582
Email: koliver@bridgeband.com
Inspector/Contact: Kevin Oliver

NIH Lab Batch ID:	16-00005
Project Name:	Old Livingston Hospital
Project Number:	999-3019
Date Samples Taken:	12/30/15
Type of Analysis:	PLM

Turnaround Time Requested	
2 Hour:	
Same Day:	
24 Hour:	
48 Hour:	
5 Day:	5-Day
10 Day:	

For Lab Use Only
Sample(s) Size: ___ Accepted ___ Rejected
Non-Conformance Memo: ___ Yes ___ No
Package Condition: ___ Good ___ Damaged ___ Severe Damage

Page 2 of 2

NIH LAB ID	SAMPLE #	SAMPLE DESCRIPTION	SAMPLE LOCATION
10	F21 A	12"x12" VFT Beige w/ Black Dots	Room 020
11	B		024
12	C		019
13	F5 1 A	Teal Carpet	RM 022
14	B		
15	C		
16	M52 A	2'x4' Heavy Texture, Fissure, Pinhole	RM 024
17	B	Ceiling Panel	
18	C	" "	
19	M5.3 A	2'x4' Light Texture, Fissure Pinhole	Room 022
20	B	Ceiling panel	
21	C		
22	M12.1 A	4" Light Brown Cove Base	RM 022
23	B		
24	C		
25	M54 A	2'x4' Pinhole And Small Fissure	Rm 020
26	B	Ceiling Panel	
27	C		
28	F22 A	12"x12" Pink w/ Black Spots	Rm 009
29	B	Floor tile	
30	C		007

Special Instructions: Analyze Group Method - Stop at First Positive ✓ Yes No
Number of samples shipped this page: 21
Total number of samples shipped: 274

Relinquished By: [signature]	Date: 1/4/16	Time: 17:00	Firm: NIH
Received By: [signature]	Date: 1/5/16	Time: 11:50	Firm: NIH Billings
Analyzed By: [signature]	Date: 1-5-16	Time: 13:05	Firm: Lab

Revised 01/20/15 RIM

Chain of Custody

NVLAP Lab Code 200511-0

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101
Office Phone: (406) 245-7766
Cell Phone: (406) 670-5582
Email: koliver@bridgeband.com
Inspector/Contact: Kevin Oliver

NIH Lab Batch ID:	16-000005
Project Name:	Old Livingston Hospital
Project Number:	999-3019
Date Samples Taken:	12/30/15
Type of Analysis:	PLM

Turnaround Time Requested	
2 Hour:	
Same Day:	
24 Hour:	
48 Hour:	
5 Day:	5-day
10 Day:	

For Lab Use Only
Sample(s) Size: ___Accepted___Rejected
Non-Conformance Memo: ___Yes___No
Package Condition: ___Good___Damaged___Severe Damage

Page 1 of 2

NIH LAB ID	SAMPLE #	SAMPLE DESCRIPTION	SAMPLE LOCATION
1	M3.1 A	Gypsum Board Assembly	Boiler Room
2	B		
3	C		
	~~M3.2 A~~	~~Gypsum Board Assembly CR16 Construction~~	
	~~B~~		
	~~C~~		
4	M5.1 A	2'x4' Medium Fissure And Pin hole Ceiling Panel	Room 021
5	B		
6	C		
7	T11 1 A	Red Fire Stop	RM 026
8	B		
9	C		
	~~M7.1 A~~	~~Plaster on Expanded Metal~~	
	~~B~~		
	~~C~~		
	~~D~~		
	~~E~~		
	~~F~~		
	~~G~~		

Special Instructions: Analyze Group Method - Stop at First Positive ✓ Yes ___ No

Number of samples shipped this page: 9

Total number of samples shipped: 274

Relinquished By: [signature]	Date: 1/4/16	Time: 17:00	Firm: NIH
Received By: [signature]	Date: 1/5/16	Time: 11:50	Firm: NIH Billings
Analyzed By: [signature]	Date: 1-5-16	Time: 13:05	Firm: [illegible]

Revised 01/20/15 RIM

NORTHERN INDUSTRIAL HYGIENE, INC.
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215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
EMAIL: Rmelgoza@bridgeband.com
NVLAP Lab Code: 200511-0

1/5/2016

Kevin Oliver
Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-

RE: Bulk Asbestos Fiber Analysis; Batch # 16-00006
Project Location *Old Livingston Hospital-Basement*

Dear Kevin Oliver,

Thank you for choosing Northern Industrial Hygiene, Inc. as your laboratory. Enclosed you will find analytical results for the bulk samples submitted to the laboratory.

Northern Industrial Hygiene is accredited by NVLAP Lab Code: 200511-0. Accreditation by NVLAP does not indicate endorsement by NVLAP or any other government agency. All bulk samples are analyzed in accordance with U.S. EPA Method -600/M4-82-020, December 1982 and EPA Method 600/R-93-116, July 1993. "Method for Determination of Asbestos in Bulk Building Materials"(NESHAP, 40 CFR-Part 61) protocol.

Analysis is cross checked through our inter or intra laboratory quality assurance program for verification. The percent values reported are based on calibrated visual estimates by volume unless verification by Point Count is indicated. Test results reported relate only to the samples submitted by the customer to Northern Industrial Hygiene, Inc. Trace amounts of asbestos are below the limit of detection and asbestos fibers with diameters below approximately 0.25 micrometers are not detectable with the Polarized Light Microscopy (PLM) analytical procedure. A trace amount of asbestos is defined as one to five fibers in three slide mounts. Asbestos found in this amount will be reported as "< 1.0%" by PLM analysis.

This report is highly confidential and shall not be reproduced without your written approval and the written approval of Northern Industrial Hygiene, Inc.

Samples are archived for thirty (30) days following analysis. Please contact us if samples need to be archived longer than the standard holding time.

Thank you for using Northern Industrial Hygiene, Inc. If you have any questions or concerns please contact us.

Sincerely,

Jude Cummings

Reviewed by: Jude Cummings

Enclosure: Bulk Sample Results

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00006**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **21**

Client Sample Number: **F5.2A**
Client Sample Description: **Carpet - Blue**
Client Sample Location: **Room 18**
Sample Comments: **Materials distinguishable but inseparable**

Lab Sample Number: **16-00006.0001**
Checked If Sample Not Analyzed ☐

Blue, white and black carpet fibers with tan mastic residue

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:
92% Synthetic

Non-Fibrous Components:
3% Miscellaneous Materials
5% Filler and Binder

Client Sample Number: **F5.2B**
Client Sample Description: **Carpet - Blue**
Client Sample Location: **Room 18**
Sample Comments: **Materials distinguishable but inseparable**

Lab Sample Number: **16-00006.0002**
Checked If Sample Not Analyzed ☐

Blue, white and black carpet fibers with tan mastic residue

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:
92% Synthetic

Non-Fibrous Components:
8% Filler and Binder

Client Sample Number: **F5.2C**
Client Sample Description: **Carpet - Blue**
Client Sample Location: **Room 17**
Sample Comments: **Materials distinguishable but inseparable**

Lab Sample Number: **16-00006.0003**
Checked If Sample Not Analyzed ☐

Blue, white and black carpet fibers with tan mastic residue

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:
90% Synthetic

Non-Fibrous Components:
2% Miscellaneous Particles
8% Filler and Binder

Client Sample Number: **F1.1A**
Client Sample Description: **Vinyl Sheet Floor - Tan Tile Pattern**
Client Sample Location: **Room 23**
Sample Comments:

Lab Sample Number: **16-00006.0004**
Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/5/2016

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00006**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **21**

Layer 1 **Medium brown carpet mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	6% Synthetic	94% Filler and Binder

Layer 2 **Medium brown vinyl with white fibrous backing**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
10% Chrysotile Asbestos		35% Filler and Binder
		55% Vinyl Filler and Binder

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **F1.1B**
Client Sample Description: **Vinyl Sheet Floor - Tan Tile Pattern**
Client Sample Location: **Room 23**
Sample Comments:

Lab Sample Number: **16-00006.0005**
Checked If Sample Not Analyzed ☐

Layer 1 **Medium brown carpet mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	8% Synthetic	92% Filler and Binder

Layer 2 **Vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
Not Analyzed Per Client		

Client Sample Number: **F1.1C**
Client Sample Description: **Vinyl Sheet Floor - Tan Tile Pattern**
Client Sample Location: **Room 23**
Sample Comments:

Lab Sample Number: **16-00006.0006**
Checked If Sample Not Analyzed ☐

Layer 1 **Medium brown carpet mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	6% Synthetic	94% Filler and Binder

Layer 2 **Vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
Not Analyzed Per Client		

(Sample results continued on next page.)

Sampled by: **Kevin Oliver** **12/30/2015**
Received by: **Regina Mirabal** **1/5/2016**
Analyzed by: **Jude Cummings** **1/5/2016**

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00006**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **21**

Client Sample Number: **F6.1A** — Lab Sample Number: **16-00006.0007**
Client Sample Description: **Leveling Compound**
Client Sample Location: **Room 18**
Sample Comments: **Materials distinguishable but inseparable** — Checked If Sample Not Analyzed ☐

White compressed powdery material with tan mastic residue

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	3% Synthetic	97% Filler and Binder

Client Sample Number: **F6.1B** — Lab Sample Number: **16-00006.0008**
Client Sample Description: **Leveling Compound**
Client Sample Location: **Room 18**
Sample Comments: — Checked If Sample Not Analyzed ☐

White compressed powdery material with tan mastic residueTan mastic with white powdery resi

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	3% Synthetic	97% Filler and Binder

Client Sample Number: **F6.1C** — Lab Sample Number: **16-00006.0009**
Client Sample Description: **Leveling Compound**
Client Sample Location: **Room 18**
Sample Comments: **Materials distinguishable but inseparable** — Checked If Sample Not Analyzed ☐

White compressed powdery material with tan mastic residue

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	3% Synthetic	97% Filler and Binder

Client Sample Number: **M5.5A** — Lab Sample Number: **16-00006.0010**
Client Sample Description: **2' X 4' - 5"x5" Pattern Ceiling Panel**
Client Sample Location: **Room 18**
Sample Comments: **Materials distinguishable but inseparable** — Checked If Sample Not Analyzed ☐

White paint on off-white fibrous compressed material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	35% Cellulose	2% Paint
	15% Mineral Wool and Beads	48% Filler and Binder

(Sample results continued on next page.)

Sampled by: Kevin Oliver 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/8/2016

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00006**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **21**

Client Sample Number: **M5.5B** — Lab Sample Number: **16-00006.0011**
Client Sample Description: **2' X 4' - 5"x5" Pattern Ceiling Panel**
Client Sample Location: **Room 18**
Sample Comments: **Materials distinguishable but inseparable** — Checked If Sample Not Analyzed ☐

White paint on off-white fibrous compressed material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	30% Cellulose	1% Paint
	15% Mineral Wool and Beads	54% Filler and Binder

Client Sample Number: **M5.5C** — Lab Sample Number: **16-00006.0012**
Client Sample Description: **2' X 4' - 5"x5" Pattern Ceiling Panel**
Client Sample Location: **Room 17**
Sample Comments: **Materials distinguishable but inseparable** — Checked If Sample Not Analyzed ☐

White paint on off-white fibrous compressed material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	30% Cellulose	4% Paint
	15% Mineral Wool and Beads	51% Filler and Binder

Client Sample Number: **M16.2A** — Lab Sample Number: **16-00006.0013**
Client Sample Description: **Concrete**
Client Sample Location: **Room 016 - Addition**
Sample Comments: **Materials distinguishable but inseparable** — Checked If Sample Not Analyzed ☐

Pieces of white paint mixed with white gritty material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		6% Paint
		70% Aggregate
		24% Filler and Binder

Client Sample Number: **M16.2B** — Lab Sample Number: **16-00006.0014**
Client Sample Description: **Concrete**
Client Sample Location: **Room 016 - Addition**
Sample Comments: **Materials distinguishable but inseparable** — Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/8/2016

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00006**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **21**

White paint on white gritty compressed material

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
10% Paint
70% Aggregate
20% Filler and Binder

Client Sample Number: **M16.2C**
Client Sample Description: **Concrete**
Client Sample Location: **Room 016 - Addition**
Sample Comments: **Materials distinguishable but inseparable**

Lab Sample Number: **16-00006.0015**

Checked If Sample Not Analyzed ☐

White paint on off-white gritty material

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
5% Paint
80% Aggregate
15% Filler and Binder

Client Sample Number: **M3.3A**
Client Sample Description: **Gypsum Board Assembly**
Client Sample Location: **Room 016A - Addition**
Sample Comments:

Lab Sample Number: **16-00006.0016**

Checked If Sample Not Analyzed ☐

Layer 1 **White paint on white compressed powder**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Paint
70% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Layer 2 **Gray paint on white compressed powdery material**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:
2% Cellulose

Non-Fibrous Components:
30% Paint
68% Filler and Binder

Comments: **Materials distinguishable but inseparable**

(Sample results continued on next page.)

Sampled by: **Kevin Oliver** **12/30/2015**
Received by: **Regina Mirabal** **1/5/2016**
Analyzed by: **Jude Cummings** **1/8/2016**

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00006**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **21**

Layer 3 **Gray and brown paper on white compressed powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	20% Cellulose	77% Filler and Binder
	3% Fiberglass	

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **M3.3B**
Client Sample Description: **Gypsum Board Assembly**
Client Sample Location: **Room 016 - Addition**
Sample Comments:

Lab Sample Number: **16-00006.0017**
Checked If Sample Not Analyzed ☐

Layer 1 **White paint on white compressed powder**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	25% Paint
		73% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Gray paint on brown papery on white compressed powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	20% Cellulose	3% Paint
	2% Fiberglass	75% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **M3.3C**
Client Sample Description: **Gypsum Board Assembly**
Client Sample Location: **Room 015 - Addition**
Sample Comments:

Lab Sample Number: **16-00006.0018**
Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: **Kevin Oliver** **12/30/2015**
Received by: **Regina Mirabal** **1/5/2016**
Analyzed by: **Jude Cummings** **1/8/2016**

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.		NIH Batch Number:	**16-00006**
201 South 30th Street		Client Job Number:	**999-3019**
Billings, MT 59101-		Turn Around Time:	**5 Day**
Project Location:	*Old Livingston Hospital-Basement*	Samples Analyzed:	**21**

Layer 1 **White paint on white compressed powder**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	25% Paint
		73% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Layer 2 **White papery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	88% Cellulose	12% Filler and Binder

Layer 3 **Gray and brown papery on white compressed powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	20% Cellulose	77% Filler and Binder
	3% Fiberglass	

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **M12.2A** Lab Sample Number: **16-00006.0019**
Client Sample Description: **4" Beige Cove Base W/White Adhesive**
Client Sample Location: **Room 014**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Off-white vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 **White mastic with white powdery residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **M12.2B** Lab Sample Number: **16-00006.0020**
Client Sample Description: **4" Beige Cove Base W/White Adhesive**
Client Sample Location: **Room 014**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver **12/30/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/8/2016**

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00006**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **21**

Layer 1 **Off-white vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 **White mastic with white powdery residue and paper**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	5% Cellulose	95% Filler and Binder

Client Sample Number: **M12.2C** Lab Sample Number: **16-00006.0021**
Client Sample Description: **4" Beige Cove Base W/White Adhesive**
Client Sample Location: **Room 014**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Off-white vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 **White mastic with white compressed powdery residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	98% Filler and Binder

Sampled by: Kevin Oliver 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/8/2016

Jude Cummings

Reviewed 1/5/2016 by: Jude Cummings

Chain of Custody

NVLAP Lab Code 200511-0

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101
Office Phone: (406) 245-7766
Cell Phone: (406) 670-5582
Email: koliver@bridgeband.com
Inspector/Contact: Kevin Oliver

NIH Lab Batch ID:	16-000006
Project Name:	Old Livingston Hospital
Project Number:	999-3019
Date Samples Taken:	12/30/15
Type of Analysis:	PLM

Turnaround Time Requested	
2 Hour:	
Same Day:	
24 Hour:	
48 Hour:	
5 Day:	5-day
10 Day:	

For Lab Use Only
Sample(s) Size: ___ Accepted ___ Rejected
Non-Conformance Memo: ___ Yes ___ No
Package Condition: ___ Good ___ Damaged ___ Severe Damage

Page 3 of ___

NIH LAB ID	SAMPLE #	SAMPLE DESCRIPTION	SAMPLE LOCATION
1	F5.2 A	Blue Carpet	Rm 18
2	B		18
3	C		17
4	F1.1 A	Tan tile Pattern Vinyl Sheet	Rm 23
5	B	Floor	
6	C		
7	F6.1 A	Leveling Compound	Rm 18
8	B		
9	C		
10	M5.5 A	2'x4' 5"x5" pattern Ceiling Panel	Rm 18
11	B		18
12	C		17
13	M16.2 A	Concrete Addition	Rm 016
14	B		
15	C		
16	M3.3 A	Gypsum Board Assembly -	Room 016A
17	B	Addition	016
18	C		015
19	M12.2 A	4" Black Cove Base w/ white	Room 014
20	B	Adhesive	
21	C		

Special Instructions: Analyze Group Method - Stop at First Positive ✓ Yes ___ No
Number of samples shipped this page: 21
Total number of samples shipped: ~~21~~ 274

Relinquished By: [signature]	Date: 1/4/16	Time: 12:00	Firm: NIH
Received By: [signature]	Date: 1/5/16	Time: 11:50	Firm: NIH Billings
Analyzed By: [signature]	Date: 1-6-16	Time: 11:25	Firm: LAB

Revised 01/20/15 RIM

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215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
EMAIL: Rmelgoza@bridgeband.com
NVLAP Lab Code: 200511-0

1/9/2016

Kevin Oliver
Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-

RE: Bulk Asbestos Fiber Analysis; Batch # 16-00007
Project Location *Old Livingston Hospital-Basement*

Dear Kevin Oliver,

Thank you for choosing Northern Industrial Hygiene, Inc. as your laboratory. Enclosed you will find analytical results for the bulk samples submitted to the laboratory.

Northern Industrial Hygiene is accredited by NVLAP Lab Code: 200511-0. Accreditation by NVLAP does not indicate endorsement by NVLAP or any other government agency. All bulk samples are analyzed in accordance with U.S. EPA Method -600/M4-82-020, December 1982 and EPA Method 600/R-93-116, July 1993. "Method for Determination of Asbestos in Bulk Building Materials"(NESHAP, 40 CFR-Part 61) protocol.

Analysis is cross checked through our inter or intra laboratory quality assurance program for verification. The percent values reported are based on calibrated visual estimates by volume unless verification by Point Count is indicated. Test results reported relate only to the samples submitted by the customer to Northern Industrial Hygiene, Inc. Trace amounts of asbestos are below the limit of detection and asbestos fibers with diameters below approximately 0.25 micrometers are not detectable with the Polarized Light Microscopy (PLM) analytical procedure. A trace amount of asbestos is defined as one to five fibers in three slide mounts. Asbestos found in this amount will be reported as "< 1.0%" by PLM analysis.

This report is highly confidential and shall not be reproduced without your written approval and the written approval of Northern Industrial Hygiene, Inc.

Samples are archived for thirty (30) days following analysis. Please contact us if samples need to be archived longer than the standard holding time.

Thank you for using Northern Industrial Hygiene, Inc. If you have any questions or concerns please contact us.

Sincerely,

Reviewed by: Jude Cummings

Enclosure: Bulk Sample Results

NORTHERN INDUSTRIAL HYGIENE, INC.
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OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00007**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **31**

Client Sample Number: **M5.6A** — Lab Sample Number: **16-00007.0001**
Client Sample Description: **2' X 4' Deep Fissure/Pinhole/Light Texture Panel**
Client Sample Location: **Room 14**
Sample Comments: **Materials distinguishable but inseparable** — Checked If Sample Not Analyzed ☐

White paint on off-white fibrous compressed material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	30% Cellulose	2% Paint
	15% Mineral Wool and Beads	53% Filler and Binder

Client Sample Number: **M5.6B** — Lab Sample Number: **16-00007.0002**
Client Sample Description: **2' X 4' Deep Fissure/Pinhole/Light Texture Panel**
Client Sample Location: **Room 14**
Sample Comments: **Materials distinguishable but inseparable** — Checked If Sample Not Analyzed ☐

White paint on off-white fibrous compressed material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	30% Cellulose	5% Paint
	15% Mineral Wool and Beads	50% Filler and Binder

Client Sample Number: **M5.6C** — Lab Sample Number: **16-00007.0003**
Client Sample Description: **2' X 4' Deep Fissure/Pinhole/Light Texture Panel**
Client Sample Location: **Room 07**
Sample Comments: **Materials distinguishable but inseparable** — Checked If Sample Not Analyzed ☐

White paint on off-white fibrous compressed material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	30% Cellulose	4% Paint
	15% Mineral Wool and Beads	51% Filler and Binder

Client Sample Number: **T9.1A** — Lab Sample Number: **16-00007.0004**
Client Sample Description: **Duct Sealant - Gray**
Client Sample Location: **Room 016**
Sample Comments: — Checked If Sample Not Analyzed ☐

Dark gray non-fibrous firm material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Filler and Binder

(Sample results continued on next page.)

Sampled by: Kevin Oliver 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/9/2016

Jude Cummings

Reviewed 1/9/2016 by: Jude Cummings

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00007**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **31**

Client Sample Number: **T9.1B** Lab Sample Number: **16-00007.0005**
Client Sample Description: **Duct Sealant - Gray**
Client Sample Location: **Room 016**
Sample Comments: Checked If Sample Not Analyzed ☐

Dark gray non-fibrous firm material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	99% Filler and Binder

Client Sample Number: **T9.1C** Lab Sample Number: **16-00007.0006**
Client Sample Description: **Duct Sealant - Gray**
Client Sample Location: **Room 016**
Sample Comments: Checked If Sample Not Analyzed ☐

Dark gray non-fibrous firm material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Filler and Binder

Client Sample Number: **F1.2A** Lab Sample Number: **16-00007.0007**
Client Sample Description: **Vinyl Sheet Flooring - Beige**
Client Sample Location: **Room 11**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Light brown swirl pattern vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 **Tan sticky material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	98% Filler and Binder

Client Sample Number: **F1.2B** Lab Sample Number: **16-00007.0008**
Client Sample Description: **Vinyl Sheet Flooring - Beige**
Client Sample Location: **Room 11**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver **12/30/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/9/2016**

Jude Cummings

Reviewed 1/9/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00007**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **31**

Layer 1 **Light brown swirl pattern vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 **Tan and black sticky material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	2% Asphalt Filler and Binder
		96% Filler and Binder

Client Sample Number: **F1.2C** Lab Sample Number: **16-00007.0009**
Client Sample Description: **Vinyl Sheet Flooring - Beige**
Client Sample Location: **Room 11**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Light brown swirl pattern vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 **Tan sticky material with gritty residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	10% Miscellaneous Materials
		88% Filler and Binder

Client Sample Number: **F2.3A** Lab Sample Number: **16-00007.0010**
Client Sample Description: **12"x12" White W/Gray Specks FloorTile**
Client Sample Location: **Room 10**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Layer 2 **Opaque sticky material with gray residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	3% Cellulose	10% Miscellaneous Materials
		87% Filler and Binder

(Sample results continued on next page.)

Sampled by: Kevin Oliver **12/30/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/9/2016**

Jude Cummings

Reviewed 1/9/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00007**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **31**

Client Sample Number: **F2.3B**
Client Sample Description: **12"x12" White W/Gray Specks FloorTile**
Client Sample Location: **Room 10**
Sample Comments:

Lab Sample Number: **16-00007.0011**
Checked If Sample Not Analyzed ☐

Layer 1 White vinyl

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Aggregate
70% Vinyl Filler and Binder

Layer 2 Opaque sticky material with gray residue

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:
5% Cellulose

Non-Fibrous Components:
10% Miscellaneous Materials
85% Filler and Binder

Client Sample Number: **F2.3C**
Client Sample Description: **12"x12" White W/Gray Specks FloorTile**
Client Sample Location: **Room 10**
Sample Comments:

Lab Sample Number: **16-00007.0012**
Checked If Sample Not Analyzed ☐

Layer 1 White vinyl

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
100% Vinyl Filler and Binder

Layer 2 Opaque sticky material with gray residue

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:
2% Cellulose

Non-Fibrous Components:
15% Miscellaneous Materials
83% Filler and Binder

Client Sample Number: **M19.1A**
Client Sample Description: **Fiberglass Reinforced Plastic**
Client Sample Location: **Room 002**
Sample Comments:

Lab Sample Number: **16-00007.0013**
Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver 12/30/2015
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Reviewed 1/9/2016 by: Jude Cummings

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00007**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **31**

Layer 1 **Medium brown non-fibrous stiff material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Filler and Binder

Layer 2 **Clear sticky material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Filler and Binder

Client Sample Number: **M19.1B** Lab Sample Number: **16-00007.0014**
Client Sample Description: **Fiberglass Reinforced Plastic**
Client Sample Location: **Room 002**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Medium brown non-fibrous stiff material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Filler and Binder

Layer 2 **Opaque sticky material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	99% Filler and Binder

Client Sample Number: **M19.1C** Lab Sample Number: **16-00007.0015**
Client Sample Description: **Fiberglass Reinforced Plastic**
Client Sample Location: **Room 002**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Medium brown non-fibrous stiff material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Filler and Binder

Layer 2 **Opaque sticky material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	3% Cellulose	97% Filler and Binder

Client Sample Number: **F3.1A** Lab Sample Number: **16-00007.0016**
Client Sample Description: **9"x9" Floor Tile - Brown W/Black Streaks**
Client Sample Location: **Room 009**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver **12/30/2015**
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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00007**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **31**

Layer 1 **Dark brown and black residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
4% Chrysotile Asbestos	5% Cellulose	30% Filler and Binder
		61% Asphalt Filler and Binder

Layer 2 **Brown, gray and black vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
6% Chrysotile Asbestos		30% Aggregate
		64% Vinyl Filler and Binder

Layer 3 **Black asphalt**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
8% Chrysotile Asbestos	2% Cellulose	90% Asphalt Filler and Binder

Client Sample Number: **F3.1B** — Lab Sample Number: **16-00007.0017**
Client Sample Description: **9"x9" Floor Tile - Brown W/Black Streaks**
Client Sample Location: **Room 009**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **F3.1C** — Lab Sample Number: **16-00007.0018**
Client Sample Description: **9"x9" Floor Tile - Brown W/Black Streaks**
Client Sample Location: **Room 009**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **M12.3A** — Lab Sample Number: **16-00007.0019**
Client Sample Description: **4" Black Cove Base W/Brown Adhesive**
Client Sample Location: **Room 009**
Sample Comments: — Checked If Sample Not Analyzed ☐

Layer 1 **Black vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 **Various shades of brown brittle material with paint residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		98% Filler and Binder
		2% Paint

(Sample results continued on next page.)

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00007**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **31**

Client Sample Number: **M12.3B**
Client Sample Description: **4" Black Cove Base W/Brown Adhesive**
Client Sample Location: **Room 009**
Sample Comments:

Lab Sample Number: **16-00007.0020**
Checked If Sample Not Analyzed ☐

Layer 1 **Black vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	100% Vinyl Filler and Binder

Layer 2 **Various shades of brown brittle material with paint residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		1% Paint 99% Filler and Binder

Client Sample Number: **M12.3C**
Client Sample Description: **4" Black Cove Base W/Brown Adhesive**
Client Sample Location: **Room 009**
Sample Comments:

Lab Sample Number: **16-00007.0021**
Checked If Sample Not Analyzed ☐

Layer 1 **Black vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 **Various shades of brown brittle material with paint residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		2% Paint 98% Filler and Binder

Client Sample Number: **F3.2A**
Client Sample Description: **9"x9" Floor Tile/Mastic - Light Brown W/Streaks**
Client Sample Location: **Room 006**
Sample Comments:

Lab Sample Number: **16-00007.0022**
Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver 12/30/2015
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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00007**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **31**

Layer 1 **Brown streaked vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
6% Chrysotile Asbestos		30% Aggregate
		64% Vinyl Filler and Binder

Layer 2 **Black Mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
5% Chrysotile Asbestos	5% Cellulose	90% Asphalt Filler and Binder

Client Sample Number: **F3.2B** — Lab Sample Number: **16-00007.0023**
Client Sample Description: **9"x9" Floor Tile/Mastic - Light Brown W/Streaks**
Client Sample Location: **Room 006**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **F3.2C** — Lab Sample Number: **16-00007.0024**
Client Sample Description: **9"x9" Floor Tile/Mastic - Light Brown W/Streaks**
Client Sample Location: **Room 006**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **F2.4A** — Lab Sample Number: **16-00007.0025**
Client Sample Description: **12"x12" Floor Tile - White W/Gray Marble Pattern**
Client Sample Location: **Room 002**
Sample Comments: — Checked If Sample Not Analyzed ☐

Layer 1 **White streaked vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Layer 2 **Orange mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	3% Cellulose	97% Filler and Binder

Client Sample Number: **F2.4B** — Lab Sample Number: **16-00007.0026**
Client Sample Description: **12"x12" Floor Tile - White W/Gray Marble Pattern**
Client Sample Location: **Room 002**
Sample Comments: — Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00007**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **31**

Layer 1 **White streaked vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	30% Aggregate
		69% Vinyl Filler and Binder

Layer 2 **Orange mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	3% Cellulose	3% Miscellaneous Materials
		94% Filler and Binder

Client Sample Number: **F2.4C** Lab Sample Number: **16-00007.0027**
Client Sample Description: **12"x12" Floor Tile - White W/Gray Marble Pattern**
Client Sample Location: **Room 029**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White streaked vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Layer 2 **Orange and black mastics**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	3% Cellulose	12% Asphalt Filler and Binder
		85% Filler and Binder

Client Sample Number: **M5.7A** Lab Sample Number: **16-00007.0028**
Client Sample Description: **2'x4' Gypsum Board Panel**
Client Sample Location: **Room 002**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver **12/30/2015**
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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00007**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **31**

Layer 1 **White shiney thin material on white fibers**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	40% Cellulose	60% Coating

Comments: **Materials distinguishable but inseparable**

Layer 2 **Brown papery on white compressed powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	18% Cellulose	80% Filler and Binder
	2% Fiberglass	

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **M5.7B** Lab Sample Number: **16-00007.0029**
Client Sample Description: **2'x4' Gypsum Board Panel**
Client Sample Location: **Room 002**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White shiney thin material on white fibers**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	35% Cellulose	65% Coating

Comments: **Materials distinguishable but inseparable**

Layer 2 **Brown papery on white compressed powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	18% Cellulose	80% Filler and Binder
	2% Fiberglass	

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **M5.7C** Lab Sample Number: **16-00007.0030**
Client Sample Description: **2'x4' Gypsum Board Panel**
Client Sample Location: **Room 002**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver **12/30/2015**
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Analyzed by: Jude Cummings **1/9/2016**

Jude Cummings

Reviewed 1/9/2016 by: Jude Cummings

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00007**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **31**

Layer 1 **White shiney thin material on white fibers**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	35% Cellulose	65% Coating

Comments: **Materials distinguishable but inseparable**

Layer 2 **Brown papery on white compressed powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	20% Cellulose	77% Filler and Binder
	3% Fiberglass	

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **T8.1A** Lab Sample Number: **16-00007.0031**
Client Sample Description: **Vibration Joint Collar - Black**
Client Sample Location: **Room 029**
Sample Comments: **Materials distinguishable but inseparable** Checked If Sample Not Analyzed ☐

Black flexible material with white fibers with sticky residue

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	35% Synthetic	65% Filler and Binder

Client Sample Number: **T8.1B** Lab Sample Number: **16-00007.0032**
Client Sample Description: **Vibration Joint Collar - Black**
Client Sample Location: **Room 029**
Sample Comments: **Materials distinguishable but inseparable** Checked If Sample Not Analyzed ☐

Black flexible material with white fibers with sticky residue

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	35% Synthetic	65% Filler and Binder

Client Sample Number: **T8.1C** Lab Sample Number: **16-00007.0033**
Client Sample Description: **Vibration Joint Collar - Black**
Client Sample Location: **Room 029**
Sample Comments: **Materials distinguishable but inseparable** Checked If Sample Not Analyzed ☐

Black flexible material with white fibers with sticky residue

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	35% Synthetic	64% Filler and Binder
	1% Cellulose	

(Sample results continued on next page.)

Sampled by: Kevin Oliver **12/30/2015**
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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00007**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **31**

Client Sample Number: **F3.3A** — Lab Sample Number: **16-00007.0034**
Client Sample Description: **9"x9" Floor Tile/Mastic - Green**
Client Sample Location: **Room 029**
Sample Comments: — Checked If Sample Not Analyzed ☐

Layer 1 **Green streaked vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
5% Chrysotile Asbestos		30% Aggregate
		65% Vinyl Filler and Binder

Layer 2 **Black and brown mastics**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
4% Chrysotile Asbestos	1% Synthetic	30% Filler and Binder
	2% Cellulose	63% Asphalt Filler and Binder

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **F3.3B** — Lab Sample Number: **16-00007.0035**
Client Sample Description: **9"x9" Floor Tile/Mastic - Green**
Client Sample Location: **Room 029**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **F3.3C** — Lab Sample Number: **16-00007.0036**
Client Sample Description: **9"x9" Floor Tile/Mastic - Green**
Client Sample Location: **Room 029**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **F3.4A** — Lab Sample Number: **16-00007.0037**
Client Sample Description: **9"x9" Floor Tile - Tan**
Client Sample Location: **Room 029**
Sample Comments: — Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/9/2016

Jude Cummings

Reviewed 1/9/2016 by: Jude Cummings

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Basement*

NIH Batch Number: **16-00007**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **31**

Layer 1 **Tan vinyl with black pitts**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
2% Chrysotile Asbestos		30% Aggregate
		68% Vinyl Filler and Binder

Layer 2 **Brown and black mastics**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
5% Chrysotile Asbestos	2% Cellulose	35% Filler and Binder
		58% Asphalt Filler and Binder

Client Sample Number: **F3.4B** — Lab Sample Number: **16-00007.0038**
Client Sample Description: **9"x9" Floor Tile - Tan**
Client Sample Location: **Room 029**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **F3.4C** — Lab Sample Number: **16-00007.0039**
Client Sample Description: **9"x9" Floor Tile - Tan**
Client Sample Location: **Room 029**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Sampled by: Kevin Oliver 12/30/2015
Received by: Regina Mirabal 1/5/2016
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Chain of Custody

NVLAP Lab Code 200511-0

Northern Industrial Hygiene, Inc.
201 South 30th Street
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Office Phone: (406) 245-7766
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Email: koliver@bridgeband.com
Inspector/Contact: Kevin Oliver

NIH Lab Batch ID:	16-000007
Project Name:	Old Livingston Hospital
Project Number:	999-3079
Date Samples Taken:	12/30/15
Type of Analysis:	PLM

Turnaround Time Requested	
2 Hour:	
Same Day:	
24 Hour:	
48 Hour:	
5 Day:	5-day
10 Day:	

For Lab Use Only
Sample(s) Size: ___ Accepted ___ Rejected
Non-Conformance Memo: ___ Yes ___ No
Package Condition: ___ Good ___ Damaged ___ Severe Damage

Page 4 of 14

NIH LAB ID	SAMPLE #	SAMPLE DESCRIPTION	SAMPLE LOCATION
1	M5.6A	2'x4' DEEP Fissure, Pin Hole, Light	Room 14
2	B	Texture Paint	14
3	C		07
4	T9.1 A	Gray Duct Sealant	Rm 016
5	B		
6	C		
7	F1.2 A	Beige Vinyl Sheet Flooring	Room 11
8	B		
9	C		
10	F2.3 A	12"x12" white w/ Gray specs Floor	Room 10
11	B	tile	
12	C		
13	M19.1A	Fiberglass Reinforced Plastic	Room 002
14	B		
15	C		
16	F3.1 A	9"x9" Brown w/ Black streaks	Room 009
17	B	Floor tile	
18	C		
19	M12.3A	4" Black Cove Base w/ Brown	Room 009
20	B	Mastic	
21	C		

Special Instructions: Analyze Group Method - Stop at First Positive ✓ Yes ___ No

Number of samples shipped this page: 21
Total number of samples shipped: 274

Relinquished By: [signature]	Date: 1/4/16	Time: 12:00	Firm: NIH
Received By: [signature]	Date: 1/5/16	Time: 11:50	Firm: NIH Bldg
Analyzed By: [signature]	Date: 1/9/16	Time: 11:12	Firm: NIC

Revised 01/20/15 RIM

Chain of Custody

NVLAP Lab Code 200511-0

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101
Office Phone: (406) 245-7766
Cell Phone: (406) 670-5582
Email: koliver@bridgeband.com
Inspector/Contact: Kevin Oliver

NIH Lab Batch ID:	16-00007
Project Name:	Old Livingston Hospital
Project Number:	999-3019
Date Samples Taken:	12/30/15
Type of Analysis:	PLM

Turnaround Time Requested	
2 Hour:	
Same Day:	
24 Hour:	
48 Hour:	
5 Day:	5 day
10 Day:	

For Lab Use Only
Sample(s) Size: (Accepted) Rejected
Non-Conformance Memo: Yes (No)
Package Condition: (Good) Damaged Severe Damage

NIH LAB ID	SAMPLE #	SAMPLE DESCRIPTION	SAMPLE LOCATION
22	F3.2 A	9"x9" Light Brn. w/ brown streaks	Room 006
23	B	Floor tile/mastic	↓
24	C	↓	↓
25	F2.4 A	12"x12" white w/ gray marble pattern	Room 002
26	B	Floor tile	" 002
27	C	↓	Room 029
28	MS.7 A	2'x4' Gypsum board panel	Rm 002
29	B	↓	↓
30	C	↓	↓
	~~T9.2 A~~	~~White DUCT SEALANT~~	
	~~B~~	~~↓ ↓ tape~~	
	~~C~~		
31	T8.1 A	Vibration joint collar black	Rm 029
32	B	↓ ↓	↓
33	C		
34	F3.3 A	9"x9" Green floor tile/mastic	Rm 029
35	B	↓ ↓	↓
36	C		
37	F3.4 A	9"x9" tan floor tile	↓
38	B	↓ ↓	
39	C		

Special Instructions: Analyze Group Method - Stop at First Positive ✓ Yes ___ No

Number of samples shipped this page: 18
Total number of samples shipped: 274

Relinquished By:	[signature]	Date: 1/4/16	Time: 17:00	Firm: NIH		
Received By:	[signature]	Date: 1/5/16	Time: 11:50	Firm: NIH BOX		
Analyzed By:	[signature]	Date: 1/8/16	Time: 11:2	Firm:		

Revised 01/20/15 RIM

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
EMAIL: Rmelgoza@bridgeband.com
NVLAP Lab Code: 200511-0

1/11/2016

Kevin Oliver
Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-

RE: Bulk Asbestos Fiber Analysis; Batch # 16-00008
Project Location *Old Livingston Hospital-Boiler Room*

Dear Kevin Oliver,

Thank you for choosing Northern Industrial Hygiene, Inc. as your laboratory. Enclosed you will find analytical results for the bulk samples submitted to the laboratory.

Northern Industrial Hygiene is accredited by NVLAP Lab Code: 200511-0. Accreditation by NVLAP does not indicate endorsement by NVLAP or any other government agency. All bulk samples are analyzed in accordance with U.S. EPA Method -600/M4-82-020, December 1982 and EPA Method 600/R-93-116, July 1993. "Method for Determination of Asbestos in Bulk Building Materials"(NESHAP, 40 CFR-Part 61) protocol.

Analysis is cross checked through our inter or intra laboratory quality assurance program for verification. The percent values reported are based on calibrated visual estimates by volume unless verification by Point Count is indicated. Test results reported relate only to the samples submitted by the customer to Northern Industrial Hygiene, Inc. Trace amounts of asbestos are below the limit of detection and asbestos fibers with diameters below approximately 0.25 micrometers are not detectable with the Polarized Light Microscopy (PLM) analytical procedure. A trace amount of asbestos is defined as one to five fibers in three slide mounts. Asbestos found in this amount will be reported as "< 1.0%" by PLM analysis.

This report is highly confidential and shall not be reproduced without your written approval and the written approval of Northern Industrial Hygiene, Inc.

Samples are archived for thirty (30) days following analysis. Please contact us if samples need to be archived longer than the standard holding time.

Thank you for using Northern Industrial Hygiene, Inc. If you have any questions or concerns please contact us.

Sincerely,

Reviewed by: Jude Cummings

Enclosure: Bulk Sample Results

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OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Boiler Room*

NIH Batch Number: **16-00008**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **36**

Client Sample Number: **T1.1A** — Lab Sample Number: **16-00008.0001**
Client Sample Description: **Boiler Ribbon Gasket**
Client Sample Location: **Large Boiler**
Sample Comments: — Checked If Sample Not Analyzed ☐

Tan fibrous brittle material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	35% Fiberglass	65% Filler and Binder

Client Sample Number: **T1.1B** — Lab Sample Number: **16-00008.0002**
Client Sample Description: **Boiler Ribbon Gasket**
Client Sample Location: **Large Boiler**
Sample Comments: — Checked If Sample Not Analyzed ☐

Tan fibrous brittle material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	40% Fiberglass	60% Filler and Binder

Client Sample Number: **T1.1C** — Lab Sample Number: **16-00008.0003**
Client Sample Description: **Boiler Ribbon Gasket**
Client Sample Location: **Large Boiler**
Sample Comments: — Checked If Sample Not Analyzed ☐

Tan fibrous brittle material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	40% Fiberglass	60% Filler and Binder

Client Sample Number: **T1.2A** — Lab Sample Number: **16-00008.0004**
Client Sample Description: **Boiler Ribbon Gasket - White**
Client Sample Location: **Small Boiler**
Sample Comments: **Materials distinguishable but inseparable** — Checked If Sample Not Analyzed ☐

Tan fibrous compressed material with blue paint

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	80% Cellulose	2% Paint
	1% Synthetic	17% Filler and Binder

(Sample results continued on next page.)

Sampled by: Kevin Oliver 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/11/2016

Jude Cummings

Reviewed 1/11/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Boiler Room*

NIH Batch Number: **16-00008**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **36**

Client Sample Number: **T1.2B** Lab Sample Number: **16-00008.0005**
Client Sample Description: **Boiler Ribbon Gasket - White**
Client Sample Location: **Small Boiler**
Sample Comments: **Materials distinguishable but inseparable** Checked If Sample Not Analyzed ☐

Tan fibrous compressed material with blue paint

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	85% Cellulose	2% Paint
	1% Synthetic	12% Filler and Binder

Client Sample Number: **T1.2C** Lab Sample Number: **16-00008.0006**
Client Sample Description: **Boiler Ribbon Gasket - White**
Client Sample Location: **Small Boiler**
Sample Comments: **Materials distinguishable but inseparable** Checked If Sample Not Analyzed ☐

Tan fibrous compressed material with blue paint

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	85% Cellulose	3% Paint
	1% Synthetic	11% Filler and Binder

Client Sample Number: **T1.3A** Lab Sample Number: **16-00008.0007**
Client Sample Description: **Boiler Flange Gasket - Red**
Client Sample Location: **Small Boiler**
Sample Comments: Checked If Sample Not Analyzed ☐

Red non-fibrous flexible material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Filler and Binder

Client Sample Number: **T1.3B** Lab Sample Number: **16-00008.0008**
Client Sample Description: **Boiler Flange Gasket - Red**
Client Sample Location: **Small Boiler**
Sample Comments: Checked If Sample Not Analyzed ☐

Red non-fibrous flexible material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Filler and Binder

(Sample results continued on next page.)

Sampled by: Kevin Oliver **12/30/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/11/2016**

Jude Cummings

Reviewed 1/11/2016 by: Jude Cummings

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Boiler Room*

NIH Batch Number: **16-00008**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **36**

Client Sample Number: **T1.3C** — Lab Sample Number: **16-00008.0009**
Client Sample Description: **Boiler Flange Gasket - Red**
Client Sample Location: **Small Boiler**
Sample Comments: — Checked If Sample Not Analyzed ☐

Red non-fibrous flexible material with dirt residue

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		3% Miscellaneous Materials
		97% Filler and Binder

Client Sample Number: **T1.4A** — Lab Sample Number: **16-00008.0010**
Client Sample Description: **Pipe Flange Gasket - White**
Client Sample Location: **Small Boiler**
Sample Comments: — Checked If Sample Not Analyzed ☐

Tan fibrous compressed material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	92% Cellulose	8% Filler and Binder

Client Sample Number: **T1.4B** — Lab Sample Number: **16-00008.0011**
Client Sample Description: **Pipe Flange Gasket - White**
Client Sample Location: **Small Boiler**
Sample Comments: **Materials distinguishable but inseparable** — Checked If Sample Not Analyzed ☐

Tan fibrous compressed material with silver residue

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	90% Cellulose	2% Coating
		8% Filler and Binder

Client Sample Number: **T1.4C** — Lab Sample Number: **16-00008.0012**
Client Sample Description: **Pipe Flange Gasket - White**
Client Sample Location: **Small Boiler**
Sample Comments: **Materials distinguishable but inseparable** — Checked If Sample Not Analyzed ☐

Tan fibrous compressed material with silver residue

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	92% Cellulose	1% Coating
		7% Filler and Binder

(Sample results continued on next page.)

Sampled by: Kevin Oliver 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/11/2016

Jude Cummings

Reviewed 1/11/2016 by: Jude Cummings

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Boiler Room*

NIH Batch Number: **16-00008**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **36**

Client Sample Number: **T7.1A** Lab Sample Number: **16-00008.0013**
Client Sample Description: **Boiler Breaching**
Client Sample Location: **On Breaching**
Sample Comments: Checked If Sample Not Analyzed ☐

White fibrous powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	15% Cellulose	70% Filler and Binder
	15% Mineral Wool and Beads	

Client Sample Number: **T7.1B** Lab Sample Number: **16-00008.0014**
Client Sample Description: **Boiler Breaching**
Client Sample Location: **On Breaching**
Sample Comments: Checked If Sample Not Analyzed ☐

White fibrous powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	18% Cellulose	67% Filler and Binder
	15% Mineral Wool and Beads	

Client Sample Number: **T7.1C** Lab Sample Number: **16-00008.0015**
Client Sample Description: **Boiler Breaching**
Client Sample Location: **On Breaching**
Sample Comments: Checked If Sample Not Analyzed ☐

White fibrous powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	18% Cellulose	62% Filler and Binder
	20% Mineral Wool and Beads	

Client Sample Number: **T2.2A** Lab Sample Number: **16-00008.0016**
Client Sample Description: **Mudded Pipe Fittings**
Client Sample Location: **Fiberglass Lines**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver **12/30/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/11/2016**

Jude Cummings

Reviewed 1/11/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Boiler Room*

NIH Batch Number: **16-00008**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **36**

White material with woven fibers

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	20% Cellulose	65% Filler and Binder
	15% Mineral Wool and Beads	

Client Sample Number: **T2.2B** — Lab Sample Number: **16-00008.0017**
Client Sample Description: **Mudded Pipe Fittings**
Client Sample Location: **Fiberglass Lines**
Sample Comments:
Checked If Sample Not Analyzed ☐

White material with woven fibers

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	22% Cellulose	78% Filler and Binder

Client Sample Number: **T2.2C** — Lab Sample Number: **16-00008.0018**
Client Sample Description: **Mudded Pipe Fittings**
Client Sample Location: **Fiberglass Lines**
Sample Comments:
Checked If Sample Not Analyzed ☐

White material with woven fibers

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	22% Cellulose	78% Filler and Binder

Client Sample Number: **M16.1A** — Lab Sample Number: **16-00008.0019**
Client Sample Description: **Concrete**
Client Sample Location: **Boiler Room**
Sample Comments:
Checked If Sample Not Analyzed ☐

Gray gritty material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		65% Aggregate
		35% Filler and Binder

Client Sample Number: **M16.1B** — Lab Sample Number: **16-00008.0020**
Client Sample Description: **Concrete**
Client Sample Location: **Boiler Room**
Sample Comments: **Materials distinguishable but inseparable**
Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/11/2016

Jude Cummings

Reviewed 1/11/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Boiler Room*

NIH Batch Number: **16-00008**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **36**

Gray paint on gray gritty compressed material

Asbestos Fibrous Components: Non-Asbestos Fibrous Components: Non-Fibrous Components:

No Asbestos Detected

2% Paint
70% Aggregate
28% Filler and Binder

Client Sample Number: **M16.1C** Lab Sample Number: **16-00008.0021**
Client Sample Description: **Concrete**
Client Sample Location: **Boiler Room**
Sample Comments: **Materials distinguishable but inseparable** Checked If Sample Not Analyzed ☐

Yellow and gray paint on gray gritty compresssed material

Asbestos Fibrous Components: Non-Asbestos Fibrous Components: Non-Fibrous Components:

No Asbestos Detected

2% Paint
70% Aggregate
28% Filler and Binder

Client Sample Number: **M17.1A** Lab Sample Number: **16-00008.0022**
Client Sample Description: **Brick/Mortar**
Client Sample Location: **Exterior Incinerator**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Red gritty compressed material**

Asbestos Fibrous Components: Non-Asbestos Fibrous Components: Non-Fibrous Components:

No Asbestos Detected

30% Fine Grains
10% Aggregate
60% Filler and Binder

Layer 2 **Gray gritty compressed material**

Asbestos Fibrous Components: Non-Asbestos Fibrous Components: Non-Fibrous Components:

No Asbestos Detected

70% Aggregate
30% Filler and Binder

Client Sample Number: **M17.1B** Lab Sample Number: **16-00008.0023**
Client Sample Description: **Brick/Mortar**
Client Sample Location: **Exterior Incinerator**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver **12/30/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/11/2016**

Jude Cummings

Reviewed 1/11/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Boiler Room*

NIH Batch Number: **16-00008**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **36**

Layer 1 **Red gritty compressed material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
20% Fine Grains
10% Aggregate
70% Filler and Binder

Layer 2 **Gray gritty compressed material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
75% Aggregate
25% Filler and Binder

Client Sample Number: **M17.1C**
Client Sample Description: **Brick/Mortar**
Client Sample Location: **Exterior Incinerator**
Sample Comments:

Lab Sample Number: **16-00008.0024**
Checked If Sample Not Analyzed ☐

Layer 1 **Red gritty compressed material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
20% Fine Grains
10% Aggregate
70% Filler and Binder

Layer 2 **Gray gritty compressed material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
70% Aggregate
30% Filler and Binder

Client Sample Number: **M17.2A**
Client Sample Description: **Fire Brick/Mortar**
Client Sample Location: **Interior Incinerator**
Sample Comments:

Lab Sample Number: **16-00008.0025**
Checked If Sample Not Analyzed ☐

Tan, orange and gray gritty material

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
70% Aggregate
30% Filler and Binder

(Sample results continued on next page.)

Sampled by: Kevin Oliver **12/30/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/11/2016**

Jude Cummings

Reviewed 1/11/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Boiler Room*

NIH Batch Number: **16-00008**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **36**

Client Sample Number: **M17.2B** Lab Sample Number: **16-00008.0026**
Client Sample Description: **Fire Brick/Mortar**
Client Sample Location: **Interior Incinerator**
Sample Comments: Checked If Sample Not Analyzed ☐

Tan, orange and gray gritty material

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
75% Aggregate
25% Filler and Binder

Client Sample Number: **M17.2C** Lab Sample Number: **16-00008.0027**
Client Sample Description: **Fire Brick/Mortar**
Client Sample Location: **Interior Incinerator**
Sample Comments: **Materials distinguishable but inseparable** Checked If Sample Not Analyzed ☐

Tan and orange gritty material with black soot

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
70% Aggregate
25% Filler and Binder
5% Miscellaneous Particles

Client Sample Number: **M18.1A** Lab Sample Number: **16-00008.0028**
Client Sample Description: **Concrete Block/Mortar**
Client Sample Location: **Boiler Room**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Gray gritty compressed material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
75% Aggregate
25% Filler and Binder

Layer 2 **Gray gritty compressed material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
60% Aggregate
10% Glass Fragments
30% Filler and Binder

(Sample results continued on next page.)

Sampled by: Kevin Oliver **12/30/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/11/2016**

Jude Cummings

Reviewed 1/11/2016 by: Jude Cummings

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Boiler Room*

NIH Batch Number: **16-00008**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **36**

Client Sample Number: **M18.1B** Lab Sample Number: **16-00008.0029**
Client Sample Description: **Concrete Block/Mortar**
Client Sample Location: **Boiler Room**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Gray gritty compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		70% Aggregate
		30% Filler and Binder

Layer 2 **Gray gritty compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		65% Aggregate
		10% Glass Fragments
		25% Filler and Binder

Client Sample Number: **M18.1C** Lab Sample Number: **16-00008.0030**
Client Sample Description: **Concrete Block/Mortar**
Client Sample Location: **Boiler Room**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Gray gritty compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		75% Aggregate
		25% Filler and Binder

Layer 2 **Gray gritty compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		65% Aggregate
		10% Glass Fragments
		25% Filler and Binder

Client Sample Number: **T1.5A** Lab Sample Number: **16-00008.0031**
Client Sample Description: **Flange Gasket - Red**
Client Sample Location: **Main Water Line**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Kevin Oliver **12/30/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/11/2016**

Jude Cummings

Reviewed 1/11/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Boiler Room*

NIH Batch Number: **16-00008**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **36**

Red flexible non-fibrous material

Asbestos Fibrous Components: **No Asbestos Detected**
Non-Asbestos Fibrous Components:
Non-Fibrous Components: 100% Filler and Binder

Client Sample Number: **T1.5B**
Client Sample Description: **Flange Gasket - Red**
Client Sample Location: **Main Water Line**
Sample Comments:
Lab Sample Number: **16-00008.0032**
Checked If Sample Not Analyzed ☐

Red flexible non-fibrous material

Asbestos Fibrous Components: **No Asbestos Detected**
Non-Asbestos Fibrous Components:
Non-Fibrous Components: 100% Filler and Binder

Client Sample Number: **T1.5C**
Client Sample Description: **Flange Gasket - Red**
Client Sample Location: **Main Water Line**
Sample Comments:
Lab Sample Number: **16-00008.0033**
Checked If Sample Not Analyzed ☐

Red flexible non-fibrous material

Asbestos Fibrous Components: **No Asbestos Detected**
Non-Asbestos Fibrous Components:
Non-Fibrous Components: 100% Filler and Binder

Client Sample Number: **T2.1A**
Client Sample Description: **Mudded Fittings - Original**
Client Sample Location: **Boiler Room**
Sample Comments:
Lab Sample Number: **16-00008.0034**
Checked If Sample Not Analyzed ☐

White fibrous powdery material

Asbestos Fibrous Components:
12% Chrysotile Asbestos
8% Amosite Asbestos
Non-Asbestos Fibrous Components:
Non-Fibrous Components: 80% Filler and Binder

Client Sample Number: **T2.1B**
Client Sample Description: **Mudded Fittings Original**
Client Sample Location: **Boiler Room**
Sample Comments: **Not Analyzed Per Client Request**
Lab Sample Number: **16-00008.0035**
Checked If Sample Not Analyzed ☑

(Sample results continued on next page.)

Sampled by: Kevin Oliver 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/11/2016

Jude Cummings

Reviewed 1/11/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital-Boiler Room*

NIH Batch Number: **16-00008**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **36**

Client Sample Number: **T2.1C** — Lab Sample Number: **16-00008.0036**
Client Sample Description: **Mudded Fittings Original**
Client Sample Location: **Room 200**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **T3.3A** — Lab Sample Number: **16-00008.0037**
Client Sample Description: **MAG. Insulation**
Client Sample Location: **Boiler Room, Straight Run Pipe**
Sample Comments: — Checked If Sample Not Analyzed ☐

White fibrous powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
12% Chrysotile Asbestos	5% Cellulose	75% Filler and Binder
8% Amosite Asbestos		

Client Sample Number: **T3.3B** — Lab Sample Number: **16-00008.0038**
Client Sample Description: **MAG. Straight Run Pipe Insulation**
Client Sample Location: **Boiler Room**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **T3.3C** — Lab Sample Number: **16-00008.0039**
Client Sample Description: **MAG. Straight Run Pipe Insulation**
Client Sample Location: **Boiler Room**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **T3.5A** — Lab Sample Number: **16-00008.0040**
Client Sample Description: **Duplex Insulation**
Client Sample Location: **Boiler Room**
Sample Comments: — Checked If Sample Not Analyzed ☐

Gray, black and white fibrous corrugated material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
5% Chrysotile Asbestos	80% Cellulose	12% Filler and Binder
		3% Asphalt Filler and Binder

Client Sample Number: **T3.5B** — Lab Sample Number: **16-00008.0041**
Client Sample Description: **Duplex Insulation**
Client Sample Location: **Boiler Room**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

(Sample results continued on next page.)

Sampled by: Kevin Oliver 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/11/2016

Jude Cummings

Reviewed 1/11/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.		NIH Batch Number:	**16-00008**
201 South 30th Street		Client Job Number:	**999-3019**
Billings, MT 59101-		Turn Around Time:	**5 Day**
Project Location:	*Old Livingston Hospital-Boiler Room*	Samples Analyzed:	**36**

Client Sample Number:	**T3.5C**	Lab Sample Number:	**16-00008.0042**
Client Sample Description:	**Duplex Insulation**		
Client Sample Location:	**Boiler Room**		
Sample Comments:	**Not Analyzed Per Client Request**	Checked If Sample Not Analyzed	☑

Sampled by:	**Kevin Oliver**	**12/30/2015**
Received by:	**Regina Mirabal**	**1/5/2016**
Analyzed by:	**Jude Cummings**	**1/11/2016**

Jude Cummings

Reviewed 1/11/2016 by: Jude Cummings

Chain of Custody

NVLAP Lab Code 200511-0

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101
Office Phone: (406) 245-7766
Cell Phone: (406) 670-5582
Email: koliver@bridgeband.com
Inspector/Contact: Kevin Oliver

NIH Lab Batch ID:	16-000008
Project Name:	Old Livingston Hospital
Project Number:	999-3819
Date Samples Taken:	12-30-15
Type of Analysis:	PLM

Turnaround Time Requested	
2 Hour:	
Same Day:	
24 Hour:	
48 Hour:	
5 Day:	X
10 Day:	

For Lab Use Only
Sample(s) Size: Accepted Rejected
Non-Conformance Memo: Yes No
Package Condition: Good Damaged Severe Damage

BOILER ROOM

Page 6 of 14

NIH LAB ID	SAMPLE #	SAMPLE DESCRIPTION	SAMPLE LOCATION
1	T1.1A	BOILER RIBBON GASKET	LARGE BOILER
2	1 B	↓ ↓	↓
3	1 C		
4	T1.2A	BOILER RIBBON GASKET (WHITE)	SMALL BOILER
5	1 B	↓ ↓	↓
6	1 C		
7	T1.3A	BOILER FLANGE GASKET (RED)	SMALL BOILER
8	1 B	↓ ↓	↓
9	1 C		
10	T1.4A	PIPE FLANGE GASKET (WHITE)	SMALL BOILER
11	1 B	↓ ↓	↓
12	1 C		
13	T2.1A	BOILER BREACHING	3rd BREACHING
14	1 B	↓	↓
15	1 C		
16	T2.2A	MUDDED PIPE FITTINGS	F.GLASS LINES
17	1 B	↓ ↓	↓
18	1 C		
19	M6.1A	CONCRETE	BOILER ROOM
20	1 B	↓	↓
21	1 C		

Special Instructions: Analyze Group Method - Stop at First Positive X **Yes** ___ **No**

Number of samples shipped this page: 21
Total number of samples shipped: 274

Relinquished By: Robert Brownell	Date: 1/4/16	Time: 17:00	Firm: NIH
Received By: [illegible]	Date: 1/5/16	Time: 11:50	Firm: NIH [illegible]
Analyzed By: [illegible]	Date: 1/11/16	Time: 9:15	Firm: LAB

Revised 01/20/15 RIM

Chain of Custody

NVLAP Lab Code 200511-0

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101
Office Phone: (406) 245-7766
Cell Phone: (406) 670-5582
Email: koliver@bridgeband.com
Inspector/Contact: Kevin Oliver

NIH Lab Batch ID:	16-000108
Project Name:	Old Livingston Hospital
Project Number:	999-3079
Date Samples Taken:	12/30/15
Type of Analysis:	PLM

Turnaround Time Requested	
2 Hour:	
Same Day:	
24 Hour:	
48 Hour:	
5 Day:	5 day
10 Day:	

For Lab Use Only
Sample(s) Size:___Accepted___Rejected
Non-Conformance Memo:___Yes___No
Package Condition:___Good___Damaged___Severe Damage

BOILER ROOM

Page 2 of 14

NIH LAB ID	SAMPLE #	SAMPLE DESCRIPTION	SAMPLE LOCATION
22	M17.1A	Brick/mortar	Incinerator
23	B		exterior
24	C		
25	M17.2A	FireBrick/Mortar	Incinerator
26	B		interior
27	C		
28	M18.1A	Concrete Block/Mortar	Boiler Room
29	B		
30	C		
31	T1.5A	Flange Gasket (Red)	Manwater Line
32	B		
33	C		
34	T2.1A	MUDDED Fittings ORIG	Boiler Room
35	B		"
36	C		Rm 200
37	T3.3A	MAG. St. Run.	Boiler Room
38	B	Pipe insulation	
39	C		
40	T3.5A	Duplex insulation	Boiler Room
41	B		
42	C		

Special Instructions: Analyze Group Method - Stop at First Positive X Yes ___ No

Number of samples shipped this page: 21
Total number of samples shipped: 274

Relinquished By: [signature]	Date: 1/4/16	Time: 17:00	Firm: NIH
Received By: [signature]	Date: 1/5/16	Time: 11:50	Firm: NIH BVD
Analyzed By: [signature]	Date: 1/11/16	Time: 9:18	Firm:

Revised 01/20/15 RIM

NORTHERN INDUSTRIAL HYGIENE, INC.
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EMAIL: Rmelgoza@bridgeband.com
NVLAP Lab Code: 200511-0

1/6/2016

Bob Brownell
Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-

RE: Bulk Asbestos Fiber Analysis; Batch # 16-00009
Project Location *Old Livingston Hospital*

Dear Bob Brownell,

Thank you for choosing Northern Industrial Hygiene, Inc. as your laboratory. Enclosed you will find analytical results for the bulk samples submitted to the laboratory.

Northern Industrial Hygiene is accredited by NVLAP Lab Code: 200511-0. Accreditation by NVLAP does not indicate endorsement by NVLAP or any other government agency. All bulk samples are analyzed in accordance with U.S. EPA Method -600/M4-82-020, December 1982 and EPA Method 600/R-93-116, July 1993. "Method for Determination of Asbestos in Bulk Building Materials"(NESHAP, 40 CFR-Part 61) protocol.

Analysis is cross checked through our inter or intra laboratory quality assurance program for verification. The percent values reported are based on calibrated visual estimates by volume unless verification by Point Count is indicated. Test results reported relate only to the samples submitted by the customer to Northern Industrial Hygiene, Inc. Trace amounts of asbestos are below the limit of detection and asbestos fibers with diameters below approximately 0.25 micrometers are not detectable with the Polarized Light Microscopy (PLM) analytical procedure. A trace amount of asbestos is defined as one to five fibers in three slide mounts. Asbestos found in this amount will be reported as "< 1.0%" by PLM analysis.

This report is highly confidential and shall not be reproduced without your written approval and the written approval of Northern Industrial Hygiene, Inc.

Samples are archived for thirty (30) days following analysis. Please contact us if samples need to be archived longer than the standard holding time.

Thank you for using Northern Industrial Hygiene, Inc. If you have any questions or concerns please contact us.

Sincerely,

Jude Cummings

Reviewed by: Jude Cummings

Enclosure: Bulk Sample Results

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

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OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00009**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **21**

Client Sample Number: **M6.4A** Lab Sample Number: **16-00009.0001**
Client Sample Description: **1'x1' Ceiling Tile/White W/Heavy Fissures & Black Mastic**
Client Sample Location: **Room 194**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White paint on off-white fibrous compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	30% Cellulose	3% Paint
	15% Mineral Wool and Beads	52% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Layer 2 **Dark brown brittle material with white residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Mineral Fibers	97% Filler and Binder
	1% Cellulose	
	1% Wollastonite	

Client Sample Number: **M6.4B** Lab Sample Number: **16-00009.0002**
Client Sample Description: **1'x1' Ceiling Tile/White W/Heavy Fissures & Black Mastic**
Client Sample Location: **Room 194**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White paint on off-white fibrous compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	30% Cellulose	10% Paint
	20% Mineral Wool and Beads	40% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Layer 2 **Dark brown brittle mastic with white residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Mineral Fibers	96% Filler and Binder
	2% Cellulose	
	1% Wollastonite	

Comments: **Materials distinguishable but inseparable**

(Sample results continued on next page.)

Sampled by: **Bob Brownell** **12/30/2015**
Received by: **Regina Mirabal** **1/5/2016**
Analyzed by: **Jude Cummings** **1/6/2016**

Jude Cummings

Reviewed 1/6/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00009**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **21**

Client Sample Number: **M6.4C** Lab Sample Number: **16-00009.0003**
Client Sample Description: **1'x1' Ceiling Tile/White W/Heavy Fissures & Black Mastic**
Client Sample Location: **Room 194**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White paint on off-white fibrous compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	30% Cellulose	2% Paint
	20% Mineral Wool and Beads	48% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Layer 2 **Dark brown brittle mastic with white residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	97% Filler and Binder
	1% Wollastonite	
	1% Mineral Fibers	

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **M6.3A** Lab Sample Number: **16-00009.0004**
Client Sample Description: **1'x1' Ceiling Tile W/Patterned Holes & Mastic/Brown**
Client Sample Location: **Room 106**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White paint on medium brown compressed fibers**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	90% Cellulose	7% Paint
		3% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Layer 2 **Medium brown mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Filler and Binder

Client Sample Number: **M6.3B** Lab Sample Number: **16-00009.0005**
Client Sample Description: **1'x1' Ceiling Tile W/Patterned Holes & Mastic/Brown**
Client Sample Location: **Room 106**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell **12/30/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/6/2016**

Jude Cummings

Reviewed 1/6/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00009**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **21**

Layer 1 **White paint on medium brown compressed fibers**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	90% Cellulose	4% Paint
		6% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Layer 2 **Medium brown mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Filler and Binder

Layer 3 **White compressed powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Filler and Binder

Client Sample Number: **M6.3C** Lab Sample Number: **16-00009.0006**
Client Sample Description: **1'x1' Ceiling Tile W/Patterned Holes & Mastic/Brown**
Client Sample Location: **Room 106**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White paint on medium brown compressed fibers**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	92% Cellulose	5% Paint
		3% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Layer 2 **Medium brown mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	3% Cellulose	97% Filler and Binder

Client Sample Number: **F2.8A** Lab Sample Number: **16-00009.0007**
Client Sample Description: **12"x12" Floor Tile/Ivory W/Tan Marbling & Mastic**
Client Sample Location: **Room 138**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: **Bob Brownell** **12/30/2015**
Received by: **Regina Mirabal** **1/5/2016**
Analyzed by: **Jude Cummings** **1/6/2016**

Jude Cummings

Reviewed 1/6/2016 by: Jude Cummings

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OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00009**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **21**

Layer 1 **Off-white vinyl**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Aggregate
70% Vinyl Filler and Binder

Layer 2 **Tan sticky material**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:
2% Cellulose
2% Synthetic

Non-Fibrous Components:
96% Filler and Binder

Client Sample Number: **F2.8B**
Lab Sample Number: **16-00009.0008**
Client Sample Description: **12"x12" Floor Tile/Ivory W/Tan Marbling & Mastic**
Client Sample Location: **Room 133 - Northwest Corner**
Sample Comments:
Checked If Sample Not Analyzed ☐

Layer 1 **Off-white streaked vinyl**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Aggregate
70% Vinyl Filler and Binder

Layer 2 **Tan and brown soft sticky material**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:
2% Cellulose

Non-Fibrous Components:
10% Miscellaneous Materials
88% Filler and Binder

Client Sample Number: **F2.8C**
Lab Sample Number: **16-00009.0009**
Client Sample Description: **12"x12" Floor Tile/Ivory W/Tan Marbling & Mastic**
Client Sample Location: **Room 133 - Southeast Corner**
Sample Comments:
Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/6/2016

Jude Cummings

Reviewed 1/6/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00009**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **21**

Layer 1 **Off-white vinyl**

Asbestos Fibrous Components:-
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Aggregate
70% Vinyl Filler and Binder

Layer 2 **Tan and black mastics**

Asbestos Fibrous Components:
5% Chrysotile Asbestos

Non-Asbestos Fibrous Components:
1% Cellulose
1% Synthetic

Non-Fibrous Components:
70% Asphalt Filler and Binder
23% Filler and Binder

Client Sample Number: **F9.1A**
Client Sample Description: **4"x2' Floor Tile/Brown & Mastic**
Client Sample Location: **Room 183- Doorway**
Sample Comments:

Lab Sample Number: **16-00009.0010**
Checked If Sample Not Analyzed ☐

Layer 1 **Tan streaked vinyl**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Aggregate
70% Vinyl Filler and Binder

Layer 2 **Tan and black mastics**

Asbestos Fibrous Components:
4% Crocidolite Asbestos

Non-Asbestos Fibrous Components:
2% Cellulose

Non-Fibrous Components:
85% Asphalt Filler and Binder
9% Filler and Binder

Client Sample Number: **F9.1B**
Client Sample Description: **4"x2' Floor Tile/Brown & Mastic**
Client Sample Location: **Room 103 - Southeast Corner**
Sample Comments:

Lab Sample Number: **16-00009.0011**
Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/6/2016

Jude Cummings

Reviewed 1/6/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00009**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **21**

Layer 1 **Tan streaked vinyl**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Aggregate
70% Vinyl Filler and Binder

Layer 2 **Opaque sticky material**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:
1% Cellulose

Non-Fibrous Components:
99% Filler and Binder

Layer 3 **Black asphalt**

Asbestos Fibrous Components:
Not Analyzed Per Client

Non-Asbestos Fibrous Components:

Non-Fibrous Components:

Client Sample Number: **F9.1C**
Client Sample Description: **4"x2' Floor Tile/Brown & Mastic**
Client Sample Location: **Room 183 - Southwest Corner**
Sample Comments:

Lab Sample Number: **16-00009.0012**
Checked If Sample Not Analyzed ☐

Layer 1 **Tan streaked vinyl**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Asphalt Filler and Binder
70% Vinyl Filler and Binder

Layer 2 **Black asphalt**

Asbestos Fibrous Components:
Not Analyzed Per Client

Non-Asbestos Fibrous Components:

Non-Fibrous Components:

Client Sample Number: **F2.9A**
Client Sample Description: **12"x12" Floor Tile/White W/Gray Marbled & Mastic**
Client Sample Location: **Room 104 - Southeast Corner**
Sample Comments:

Lab Sample Number: **16-00009.0013**
Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/6/2016

Jude Cummings

Reviewed 1/6/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00009**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **21**

Layer 1 **White vinyl with gray streaks**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
35% Aggregate
65% Vinyl Filler and Binder

Layer 2 **Dark brown and tan mastics**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:
1% Cellulose
1% Mineral Fibers

Non-Fibrous Components:
98% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **F2.9B**
Client Sample Description: **12"x12" Floor Tile/White W/Gray Marbled & Mastic**
Client Sample Location: **Room 104 - Northeast Corner**
Sample Comments:

Lab Sample Number: **16-00009.0014**
Checked If Sample Not Analyzed ☐

Layer 1 **White vinyl with gray streaks**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
35% Aggregate
65% Vinyl Filler and Binder

Layer 2 **Tan sticky material with gray gritty residue**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:
1% Cellulose

Non-Fibrous Components:
22% Fine Grains
77% Filler and Binder

Client Sample Number: **F2.9C**
Client Sample Description: **12"x12" Floor Tile/White W/Gray Marbled & Mastic**
Client Sample Location: **Room 134 - Doorway**
Sample Comments:

Lab Sample Number: **16-00009.0015**
Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/6/2016

Jude Cummings

Reviewed 1/6/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00009**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **21**

Layer 1 **White vinyl with gray streaks**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		35% Aggregate
		65% Vinyl Filler and Binder

Layer 2 **Brown and stan sticky material with gray residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	30% Fine Grains
	2% Synthetic	66% Filler and Binder

Client Sample Number: **F1.3A** Lab Sample Number: **16-00009.0016**
Client Sample Description: **Vinyl Sheet Flooring/Beige & Brown & Mastic**
Client Sample Location: **Room 104A**
Sample Comments: **Materials distinguishable but inseparable** Checked If Sample Not Analyzed ☐

Brown streaked vinyl on off-white fibrous backing with tan residue

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	10% Cellulose	35% Filler and Binder
	3% Fiberglass	52% Vinyl Filler and Binder

Client Sample Number: **F1.3B** Lab Sample Number: **16-00009.0017**
Client Sample Description: **Vinyl Sheet Flooring/Beige & Brown & Mastic**
Client Sample Location: **Room 104A**
Sample Comments: Checked If Sample Not Analyzed ☐

Brown streaked vinyl on off-white fibrous backing with tan residue

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	10% Cellulose	35% Filler and Binder
	3% Fiberglass	52% Vinyl Filler and Binder

Comments: **Materials distinguishable but inseparable**

Layer 2 **Dark brown and tan mastics**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	5% Cellulose	94% Filler and Binder
	1% Fiberglass	

Comments: **Materials distinguishable but inseparable**

(Sample results continued on next page.)

Sampled by: Bob Brownell **12/30/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/6/2016**

Jude Cummings

Reviewed 1/6/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00009**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **21**

Client Sample Number: **F1.3C** — Lab Sample Number: **16-00009.0018**
Client Sample Description: **Vinyl Sheet Flooring/Beige & Brown & Mastic**
Client Sample Location: **Room 104A**
Sample Comments: **Materials distinguishable but inseparable** — Checked If Sample Not Analyzed ☐

Brown streaked vinyl on white fibrous backing with tan residue

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	12% Cellulose	40% Filler and Binder
	3% Fiberglass	45% Vinyl Filler and Binder

Client Sample Number: **M12.4A** — Lab Sample Number: **16-00009.0019**
Client Sample Description: **4" Vinyl Cove Base/Brown & Mastic/Light Brown**
Client Sample Location: **Room 104A**
Sample Comments: — Checked If Sample Not Analyzed ☐

Layer 1 Brown vinyl

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	99% Vinyl Filler and Binder

Layer 2 Tan flexible material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Filler and Binder

Client Sample Number: **M12.4B** — Lab Sample Number: **16-00009.0020**
Client Sample Description: **4" Vinyl Cove Base/Brown & Mastic/Light Brown**
Client Sample Location: **Room 203**
Sample Comments: — Checked If Sample Not Analyzed ☐

Layer 1 Brown vinyl

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 Tan mastic

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	93% Filler and Binder
	5% Synthetic	

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/6/2016

Jude Cummings

Reviewed 1/6/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00009**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **21**

Client Sample Number: **M12.4C** Lab Sample Number: **16-00009.0021**
Client Sample Description: **4" Vinyl Cove Base/Brown & Mastic/Light Brown**
Client Sample Location: **Room 179**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Brown vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 **Tan mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Filler and Binder

Sampled by: Bob Brownell 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/6/2016

Jude Cummings

Reviewed 1/6/2016 by: Jude Cummings

Chain of Custody

NVLAP Lab Code 200511-0

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101
Office Phone: (406) 245-7766
Cell Phone: (406) 647-5275
Email: bbrownell@bridgeband.com
Inspector/Contact: Bob Brownell

NIH Lab Batch ID:	16-00004
Project Name:	Old Livingston Hospital
Project Number:	999-3019
Date Samples Taken:	12/30/15
Type of Analysis:	PLM

Turnaround Time Requested	
2 Hour:	
Same Day:	
24 Hour:	
48 Hour:	
5 Day:	5 day
10 Day:	

For Lab Use Only
Sample(s) Size: (Accepted) Rejected
Non-Conformance Memo: Yes (No)
Package Condition: (Good) Damaged Severe Damage

NIH LAB ID	SAMPLE #	SAMPLE DESCRIPTION	SAMPLE LOCATION
1	M6.4A	1'x1' Ceiling Tile (white w/	Rm 194
2	M6.4B	heavy Fissures + Mastic (Black)	Rm 194
3	M6.4C	↓	Rm 194
4	M6.3A	1'x1' Ceiling Tile w/ Pattern	Rm 106
5	M6.3B	Holes + Mastic (Brown)	Rm 106
6	M6.3C	↓	Rm 106
7	F2.8A	12"x12" Floor Tile (Tan w/ Tan Marbling)	Rm 133
8	F2.8B	+ Mastic	Rm 133 - NW Corner
9	F2.8C	↓	Rm 133 - SE Corner
10	F9.1A	4"x2' Floor Tile (Brn) + Mastic	Rm 183 - Doorway
11	F9.1B		Rm 103 - SE Corner
12	F9.1C	↓	Rm 183 - SW Corner
13	F2.9A	12"x12" Floor Tile (White w/ Gray	Rm 104 - SE Corner
14	F2.9B	marbled) + Mastic	Rm 104 - NE Corner
15	F2.9C	↓	Rm 134 - Doorway
16	F1.3A	Vinyl Sheet Flooring (beige + Brown)	Rm 104A
17	F1.3B	+ Mastic	Rm 104A
18	F1.3C	↓	Rm 104A
19	M12.4A	4" Vinyl Cove (Brn) + Mastic	Rm 104A
20	M12.4B	(Light Brown)	Rm 203
21	M12.4C		Rm 179

Special Instructions: Analyze Group Method - Stop at First Positive X Yes No

Number of samples shipped this page: 21
Total number of samples shipped: 274

Relinquished By: Robert Brownell	Date: 1/4/16	Time: 17:00	Firm: NIH
Received By: [illegible]	Date: 1/5/16	Time: 11:50	Firm: NIH BVL
Analyzed By: [illegible]	Date: 1/6/16	Time: 09:38	Firm: LAB

Revised 01/20/15 RIM

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
EMAIL: Rmelgoza@bridgeband.com
NVLAP Lab Code: 200511-0

1/6/2016

Bob Brownell
Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-

RE: Bulk Asbestos Fiber Analysis; Batch # 16-00010
Project Location *Old Livingston Hospital - First Floor*

Dear Bob Brownell,

Thank you for choosing Northern Industrial Hygiene, Inc. as your laboratory. Enclosed you will find analytical results for the bulk samples submitted to the laboratory.

Northern Industrial Hygiene is accredited by NVLAP Lab Code: 200511-0. Accreditation by NVLAP does not indicate endorsement by NVLAP or any other government agency. All bulk samples are analyzed in accordance with U.S. EPA Method -600/M4-82-020, December 1982 and EPA Method 600/R-93-116, July 1993. "Method for Determination of Asbestos in Bulk Building Materials"(NESHAP, 40 CFR-Part 61) protocol.

Analysis is cross checked through our inter or intra laboratory quality assurance program for verification. The percent values reported are based on calibrated visual estimates by volume unless verification by Point Count is indicated. Test results reported relate only to the samples submitted by the customer to Northern Industrial Hygiene, Inc. Trace amounts of asbestos are below the limit of detection and asbestos fibers with diameters below approximately 0.25 micrometers are not detectable with the Polarized Light Microscopy (PLM) analytical procedure. A trace amount of asbestos is defined as one to five fibers in three slide mounts. Asbestos found in this amount will be reported as "< 1.0%" by PLM analysis.

This report is highly confidential and shall not be reproduced without your written approval and the written approval of Northern Industrial Hygiene, Inc.

Samples are archived for thirty (30) days following analysis. Please contact us if samples need to be archived longer than the standard holding time.

Thank you for using Northern Industrial Hygiene, Inc. If you have any questions or concerns please contact us.

Sincerely,

Rachel Melgoza

Reviewed by: Rachel Melgoza

Enclosure: Bulk Sample Results

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital - First Floor*

NIH Batch Number: **16-00010**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **18**

Client Sample Number: **F2.5A** Lab Sample Number: **16-00010.0001**
Client Sample Description: **12"X12" Floor Tile - White w/Beige Specks, Yellow Mastic & Brown Leveling**
Client Sample Location: **Room 101 - North End of Room**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White with beige streaks vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Layer 2 **Yellow adhesive**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	99% Filler and Binder

Layer 3 **Brown grainy compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	68% Filler and Binder
	1% Synthetic	30% Fine Grains

Client Sample Number: **F2.5B** Lab Sample Number: **16-00010.0002**
Client Sample Description: **12"X12" Floor Tile - White w/Beige Specks, Yellow Mastic & Brown Leveling**
Client Sample Location: **Room 101 - Sitting Area**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White with beige streaks vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Layer 2 **Yellow adhesive**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	99% Filler and Binder

Layer 3 **Brown grainy compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	68% Filler and Binder
	1% Synthetic	30% Fine Grains

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Rachel Melgoza 1/6/2016

Rachel Melgoza

Reviewed 1/6/2016 by: Rachel Melgoza

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital - First Floor*

NIH Batch Number: **16-00010**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **18**

Client Sample Number: **F2.5C** Lab Sample Number: **16-00010.0003**
Client Sample Description: **12"X12" Floor Tile - White w/Beige Specks, Yellow Mastic & Brown Leveling**
Client Sample Location: **Room 101 - adjacent to Room 110**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White with beige streaks vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Layer 2 **Yellow adhesive**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	99% Filler and Binder

Layer 3 **Brown grainy compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	68% Filler and Binder
	1% Synthetic	30% Fine Grains

Client Sample Number: **F2.10A** Lab Sample Number: **16-00010.0004**
Client Sample Description: **12"X12" Floor Tile - Light-Blue Marbled & Mastic**
Client Sample Location: **Room 107 - Middle of Room**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Light-gray with gray streaks**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Layer 2 **Yellow and tan sticky adhesives on tan grainy material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	3% Cellulose	77% Filler and Binder
		20% Fine Grains

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **F2.10B** Lab Sample Number: **16-00010.0005**
Client Sample Description: **12"X12" Floor Tile - Light-Blue Marbled & Mastic**
Client Sample Location: **Room 107 - West Doorway**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: **Bob Brownell** **12/30/2015**
Received by: **Regina Mirabal** **1/5/2016**
Analyzed by: **Rachel Melgoza** **1/6/2016**

Rachel Melgoza
Reviewed 1/6/2016 by: Rachel Melgoza

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital - First Floor*

NIH Batch Number: **16-00010**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **18**

Layer 1 **Light-gray with gray streaks**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Layer 2 **Yellow and tan sticky adhesives on tan grainy material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	78% Fine Grains
		20% Fine Grains

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **F2.10C** Lab Sample Number: **16-00010.0006**
Client Sample Description: **12"X12" Floor Tile - Light-Blue Marbled & Mastic**
Client Sample Location: **Room 107 - West Doorway**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Light-gray with gray streaks**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Layer 2 **Yellow and tan sticky adhesives**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	99% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **F2.6A** Lab Sample Number: **16-00010.0007**
Client Sample Description: **12"X12" Floor Tile - Purple Marbled & Mastic**
Client Sample Location: **Room 107**
Sample Comments: **No mastic present** Checked If Sample Not Analyzed ☐

Blue vinyl

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

(Sample results continued on next page.)

Sampled by: **Bob Brownell** **12/30/2015**
Received by: **Regina Mirabal** **1/5/2016**
Analyzed by: **Rachel Melgoza** **1/6/2016**

Rachel Melgoza
Reviewed 1/6/2016 by: Rachel Melgoza

NORTHERN INDUSTRIAL HYGIENE, INC.
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OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital - First Floor*

NIH Batch Number: **16-00010**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **18**

Client Sample Number: **F2.6B** Lab Sample Number: **16-00010.0008**
Client Sample Description: **12"X12" Floor Tile - Purple Marbled & Mastic**
Client Sample Location: **Room 204**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Blue vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Layer 2 **Tan and black pliable adhesive with aggregate**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
2% Chrysotile Asbestos	5% Cellulose	8% Aggregate
		50% Asphalt Filler and Binder
		35% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **F2.6C** Lab Sample Number: **16-00010.0009**
Client Sample Description: **12"X12" Floor Tile - Purple Marbled & Mastic**
Client Sample Location: **Room 101 - West End**
Sample Comments: **No mastic present** Checked If Sample Not Analyzed ☐

Purple vinyl

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Client Sample Number: **F2.15A** Lab Sample Number: **16-00010.0010**
Client Sample Description: **12"X12" Floor Tile - White w/Blue Specks & Mastic**
Client Sample Location: **Room 107 - Northwest Corner**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/30/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Rachel Melgoza 1/6/2016

Rachel Melgoza
Reviewed 1/6/2016 by: Rachel Melgoza

NORTHERN INDUSTRIAL HYGIENE, INC.
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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital - First Floor*

NIH Batch Number: **16-00010**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **18**

Layer 1 **White with blue streaks vinyl**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Aggregate
70% Vinyl Filler and Binder

Layer 2 **Yellow pliable adhesive with tan grainy material**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:
2% Cellulose

Non-Fibrous Components:
75% Filler and Binder
23% Fine Grains

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **F2.15B**
Client Sample Description: **12"X12" Floor Tile - White w/Blue Specks & Mastic**
Client Sample Location: **Room 107 - Northeast Corner**
Sample Comments:

Lab Sample Number: **16-00010.0011**
Checked If Sample Not Analyzed ☐

Layer 1 **White with blue streaks vinyl**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Aggregate
70% Vinyl Filler and Binder

Layer 2 **Yellow pliable adhesive with tan grainy material**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:
2% Cellulose

Non-Fibrous Components:
75% Filler and Binder
23% Fine Grains

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **F2.15C**
Client Sample Description: **12"X12" Floor Tile - White w/Blue Specks & Mastic**
Client Sample Location: **Room 107 - Southeast Corner**
Sample Comments:

Lab Sample Number: **16-00010.0012**
Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: **Bob Brownell** **12/30/2015**
Received by: **Regina Mirabal** **1/5/2016**
Analyzed by: **Rachel Melgoza** **1/6/2016**

Rachel Melgoza

Reviewed 1/6/2016 by: Rachel Melgoza

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital - First Floor*

NIH Batch Number: **16-00010**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **18**

Layer 1 **White with blue streaks vinyl**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Aggregate
70% Vinyl Filler and Binder

Layer 2 **Yellow pliable adhesive with tan grainy material**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:
3% Cellulose

Non-Fibrous Components:
77% Filler and Binder
20% Fine Grains

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **F2.7A**
Client Sample Description: **12"X12" Floor Tile - Green Marbled & Mastic**
Client Sample Location: **Room 101 - West End**
Sample Comments:

Lab Sample Number: **16-00010.0013**
Checked If Sample Not Analyzed ☐

Layer 1 **Light-green vinyl**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Aggregate
70% Vinyl Filler and Binder

Layer 2 **Yellow sticky adhesive**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:
2% Cellulose

Non-Fibrous Components:
98% Filler and Binder

Client Sample Number: **F2.7B**
Client Sample Description: **12"X12" Floor Tile - Green Marbled & Mastic**
Client Sample Location: **Room 101 - Sitting Area**
Sample Comments:

Lab Sample Number: **16-00010.0014**
Checked If Sample Not Analyzed ☐

Layer 1 **Light-green vinyl**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Aggregate
70% Vinyl Filler and Binder

Layer 2 **Yellow sticky adhesive**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:
1% Cellulose

Non-Fibrous Components:
99% Filler and Binder

(Sample results continued on next page.)

Sampled by: **Bob Brownell** **12/30/2015**
Received by: **Regina Mirabal** **1/5/2016**
Analyzed by: **Rachel Melgoza** **1/6/2016**

Rachel Melgoza

Reviewed 1/6/2016 by: Rachel Melgoza

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital - First Floor*

NIH Batch Number: **16-00010**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **18**

Client Sample Number: **F2.7C** Lab Sample Number: **16-00010.0015**
Client Sample Description: **12"X12" Floor Tile - Green Marbled & Mastic**
Client Sample Location: **Room 101 - North End**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Light-green vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Layer 2 **Yellow sticky adhesive**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	98% Filler and Binder

Client Sample Number: **M6.2A** Lab Sample Number: **16-00010.0016**
Client Sample Description: **1'X1' Ceiling Tile - White w/Heavy Fissures & Brown Mastic**
Client Sample Location: **Room 103**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White paint on tan fibrous compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	25% Cellulose	50% Filler and Binder
	20% Mineral Wool and Beads	5% Paint

Comments: **Materials distinguishable but inseparable**

Layer 2 **Brown brittle mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	96% Filler and Binder
	2% Mineral Wool and Beads	

Client Sample Number: **M6.2B** Lab Sample Number: **16-00010.0017**
Client Sample Description: **1'X1' Ceiling Tile - White w/Heavy Fissures & Brown Mastic**
Client Sample Location: **Room 153**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: **Bob Brownell** **12/30/2015**
Received by: **Regina Mirabal** **1/5/2016**
Analyzed by: **Rachel Melgoza** **1/6/2016**

Rachel Melgoza

Reviewed 1/6/2016 by: Rachel Melgoza

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital - First Floor*

NIH Batch Number: **16-00010**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **18**

Layer 1 **White paint on tan fibrous compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	25% Cellulose	48% Filler and Binder
	20% Mineral Wool and Beads	7% Paint

Comments: **Materials distinguishable but inseparable**

Layer 2 **Brown brittle mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	96% Filler and Binder
	2% Mineral Wool and Beads	

Client Sample Number: **M6.2C**
Lab Sample Number: **16-00010.0018**
Client Sample Description: **1'X1' Ceiling Tile - White w/Heavy Fissures & Brown Mastic**
Client Sample Location: **Room 153**
Sample Comments:
Checked If Sample Not Analyzed ☐

Layer 1 **White paint on tan fibrous compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	30% Cellulose	48% Filler and Binder
	17% Mineral Wool and Beads	5% Paint

Comments: **Materials distinguishable but inseparable**

Layer 2 **Brown brittle mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	96% Filler and Binder
	2% Mineral Wool and Beads	

Sampled by: **Bob Brownell** **12/30/2015**
Received by: **Regina Mirabal** **1/5/2016**
Analyzed by: **Rachel Melgoza** **1/6/2016**

Rachel Melgoza

Reviewed 1/6/2016 by: Rachel Melgoza

Chain of Custody

NVLAP Lab Code 200511-0

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101
Office Phone: (406) 245-7766
Cell Phone: (406) 647-5275
Email: bbrownell@bridgeband.com
Inspector/Contact: Bob Brownell

NIH Lab Batch ID:	16-00010
Project Name:	Old Livingston Hospital
Project Number:	999-3019
Date Samples Taken:	12/30/15
Type of Analysis:	PLM

Turnaround Time Requested	
2 Hour:	
Same Day:	
24 Hour:	
48 Hour:	
5 Day:	5 day
10 Day:	

For Lab Use Only
Sample(s) Size: ✓ Accepted ___ Rejected
Non-Conformance Memo: _ Yes ✓ No
Package Condition: ✓ Good ___ Damaged ___ Severe Damage

Page 9 of 14

NIH LAB ID	SAMPLE #	SAMPLE DESCRIPTION	SAMPLE LOCATION
0001	F2.5A	12"x12" Floor Tile (White w/Beige	North End of Rm 101
		specks) + Mastic (Yellow) + Leveling (Brn)	
2	F2.5B	"	Sitting Area of Rm 101
3	F2.5C	"	Rm 101 Adjacent to Rm 110
4	F2.10A	12"x12" Floor Tile (Lt. Blue Marbled)	Rm 107 Middle of Rm
		+ Mastic	
5	F2.10B	"	Rm 107 SE Corner
6	F2.10C	"	Rm 107 West Doorway
7	F2.6A	12"x12" Floor Tile (Purple Marbled)	Rm 107
		+ Mastic	
8	F2.6B	"	Rm 204
9	F2.6C		Rm 101 - West End
10	F2.15A	12"x12" Floor Tile (White w/Blue	Rm 107 - NW Corner
11	F2.15B	Specks) + Mastic	Rm 107 - NE Corner
12	F2.15C		Rm 107 - SE Corner
13	F2.7A	12"x12" Floor Tile (Green Marbled)	Rm 101 - West End
14	F2.7B	+ Mastic	Rm 101 - Sitting Area
15	F2.7C		Rm 101 - North End
16	M6.2A	1'x1' Ceiling Tile (White	Rm 103
17	M6.2B	w/heavy Fissures + Mastic (Brn)	Rm 153
18	M6.2C		Rm 153

Special Instructions: Analyze Group Method - Stop at First Positive X Yes ___ No
Number of samples shipped this page: 18
Total number of samples shipped:

Relinquished By: Robert B Brownell	Date: 1/4/16	Time: 1700	Firm: NIH
Received By: [signature]	Date: 1/5/16	Time: 11:50	Firm: NIH [illegible]
Analyzed By: Rachel Melgoza	Date: 01/06/16	Time: 1100	Firm: NIH Burien

Revised 01/20/15 RIM

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

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NVLAP Lab Code: 200511-0

1/6/2016

Bob Brownell
Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-

RE: Bulk Asbestos Fiber Analysis; Batch # 16-00011
Project Location *Old Livingston Hospital*

Dear Bob Brownell,

Thank you for choosing Northern Industrial Hygiene, Inc. as your laboratory. Enclosed you will find analytical results for the bulk samples submitted to the laboratory.

Northern Industrial Hygiene is accredited by NVLAP Lab Code: 200511-0. Accreditation by NVLAP does not indicate endorsement by NVLAP or any other government agency. All bulk samples are analyzed in accordance with U.S. EPA Method -600/M4-82-020, December 1982 and EPA Method 600/R-93-116, July 1993. "Method for Determination of Asbestos in Bulk Building Materials"(NESHAP, 40 CFR-Part 61) protocol.

Analysis is cross checked through our inter or intra laboratory quality assurance program for verification. The percent values reported are based on calibrated visual estimates by volume unless verification by Point Count is indicated. Test results reported relate only to the samples submitted by the customer to Northern Industrial Hygiene, Inc. Trace amounts of asbestos are below the limit of detection and asbestos fibers with diameters below approximately 0.25 micrometers are not detectable with the Polarized Light Microscopy (PLM) analytical procedure. A trace amount of asbestos is defined as one to five fibers in three slide mounts. Asbestos found in this amount will be reported as "< 1.0%" by PLM analysis.

This report is highly confidential and shall not be reproduced without your written approval and the written approval of Northern Industrial Hygiene, Inc.

Samples are archived for thirty (30) days following analysis. Please contact us if samples need to be archived longer than the standard holding time.

Thank you for using Northern Industrial Hygiene, Inc. If you have any questions or concerns please contact us.

Sincerely,

Reviewed by: Jude Cummings

Enclosure: Bulk Sample Results

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

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OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00011**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **13**

Client Sample Number: **M16.3A** Lab Sample Number: **16-00011.0001**
Client Sample Description: **Concrete**
Client Sample Location: **Exterior Foundation Wall Of Addition - 1989 Addition**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Medium gray gritty material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		70% Aggregate
		30% Filler and Binder

Layer 2 **Light gray gritty compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	70% Aggregate
		29% Filler and Binder

Client Sample Number: **M16.3B** Lab Sample Number: **16-00011.0002**
Client Sample Description: **Concrete**
Client Sample Location: **Exterior Foundation Wall Of Addition - 1989 Addition**
Sample Comments: Checked If Sample Not Analyzed ☐

Light gray gritty compressed material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	70% Aggregate
		29% Filler and Binder

Client Sample Number: **M16.3C** Lab Sample Number: **16-00011.0003**
Client Sample Description: **Concrete**
Client Sample Location: **Exterior Foundation Wall Of Addition - 1989 Addition**
Sample Comments: Checked If Sample Not Analyzed ☐

Medium gray gritty material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		70% Aggregate
		30% Filler and Binder

Client Sample Number: **F8.1A** Lab Sample Number: **16-00011.0004**
Client Sample Description: **6"x6" Ceramic Tile & Grout - Red**
Client Sample Location: **Room 100**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/6/2016

Jude Cummings

Reviewed 1/6/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

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OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00011**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **13**

Layer 1 **Red ceramic material**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Aggregate
20% Fine Grains
50% Filler and Binder

Layer 2 **Gray gritty compressed material**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
70% Aggregate
30% Filler and Binder

Client Sample Number: **F8.1B**
Client Sample Description: **6"x6" Ceramic Tile & Grout - Red**
Client Sample Location: **Room 100A**
Sample Comments:

Lab Sample Number: **16-00011.0005**
Checked If Sample Not Analyzed ☐

Layer 1 **Red ceramic material**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Fine Grains
30% Aggregate
40% Filler and Binder

Layer 2 **Gray gritty compressed material**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
70% Aggregate
30% Filler and Binder

Client Sample Number: **F8.1C**
Client Sample Description: **6"x6" Ceramic Tile & Grout - Red**
Client Sample Location: **Room 100A**
Sample Comments:

Lab Sample Number: **16-00011.0006**
Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell **12/31/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/6/2016**

Jude Cummings

Reviewed 1/6/2016 by: Jude Cummings

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Billings, MT • Helena, MT • Seattle, WA

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00011**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **13**

Layer 1 **Red ceramic material**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Fine Grains
20% Aggregate
50% Filler and Binder

Layer 2 **Gray gritty compressed material**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
70% Aggregate
30% Filler and Binder

Client Sample Number: **T12.1A** Lab Sample Number: **16-00011.0007**
Client Sample Description: **Roof Drain Bowl Insulation**
Client Sample Location: **Room 101**
Sample Comments: Checked If Sample Not Analyzed ☐

White fibrous powdery material

Asbestos Fibrous Components:
15% Chrysotile Asbestos
8% Amosite Asbestos

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
77% Filler and Binder

Client Sample Number: **T12.1B** Lab Sample Number: **16-00011.0008**
Client Sample Description: **Roof Drain Bowl Insulation**
Client Sample Location: **Room 101**
Sample Comments: **Not Analyzed Per Client Request** Checked If Sample Not Analyzed ☑

Client Sample Number: **T12.1C** Lab Sample Number: **16-00011.0009**
Client Sample Description: **Roof Drain Bowl Insulation**
Client Sample Location: **Room 101**
Sample Comments: **Not Analyzed Per Client Request** Checked If Sample Not Analyzed ☑

Client Sample Number: **M8.1A** Lab Sample Number: **16-00011.0010**
Client Sample Description: **Window Caulk - Gray W/White**
Client Sample Location: **Room 149**
Sample Comments: **Small sample size** Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/6/2016

Jude Cummings

Reviewed 1/6/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

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OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00011**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **13**

Tan, white and black materials

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
8% Chrysotile Asbestos	5% Cellulose	87% Filler and Binder

Client Sample Number: **M8.1B** — Lab Sample Number: **16-00011.0011**
Client Sample Description: **Window Caulk - Gray W/White**
Client Sample Location: **Room 155**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **M8.1C** — Lab Sample Number: **16-00011.0012**
Client Sample Description: **Window Caulk - Gray W/White**
Client Sample Location: **Room 146**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **M8.2A** — Lab Sample Number: **16-00011.0013**
Client Sample Description: **Window Glazing Compound - White**
Client Sample Location: **Room 106**
Sample Comments: **Small sample size** — Checked If Sample Not Analyzed ☐

White and gray chunks

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
4% Chrysotile Asbestos	1% Cellulose	95% Filler and Binder

Client Sample Number: **M8.2B** — Lab Sample Number: **16-00011.0014**
Client Sample Description: **Window Glazing Compound - White**
Client Sample Location: **Room 196**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **M8.2C** — Lab Sample Number: **16-00011.0015**
Client Sample Description: **Window Glazing Compound - White**
Client Sample Location: **Room 201**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **M8.3A** — Lab Sample Number: **16-00011.0016**
Client Sample Description: **Window Caulk - White**
Client Sample Location: **Room 106**
Sample Comments: **Small sample size** — Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/6/2016

Jude Cummings

Reviewed 1/6/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00011**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **13**

White and off-white fibrous compressed material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
12% Chrysotile Asbestos		88% Filler and Binder

Client Sample Number: **M8.3B** — Lab Sample Number: **16-00011.0017**
Client Sample Description: **Window Caulk - White**
Client Sample Location: **Room 196**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **M8.3C** — Lab Sample Number: **16-00011.0018**
Client Sample Description: **Window Caulk - White**
Client Sample Location: **Room 201**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **M8.4A** — Lab Sample Number: **16-00011.0019**
Client Sample Description: **Window Glazing - Brown Vinyl**
Client Sample Location: **Room 149**
Sample Comments: **Small sample size** — Checked If Sample Not Analyzed ☐

Gray flexible non-fibrous material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		1% Miscellaneous Particles 99% Filler and Binder

Client Sample Number: **M8.4B** — Lab Sample Number: **16-00011.0020**
Client Sample Description: **Window Glazing - Brown Vinyl**
Client Sample Location: **Room 155**
Sample Comments: **Small sample size** — Checked If Sample Not Analyzed ☐

Layer 1 **Gray non-fibrous flexible material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		1% Miscellaneous Particles 99% Filler and Binder

Client Sample Number: **M8.4C** — Lab Sample Number: **16-00011.0021**
Client Sample Description: **Window Glazing - Brown Vinyl**
Client Sample Location: **Room 146**
Sample Comments: **Small sample size** — Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/7/2016

Jude Cummings

Reviewed 1/6/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.		NIH Batch Number:	**16-00011**
201 South 30th Street		Client Job Number:	**999-3019**
Billings, MT 59101-		Turn Around Time:	**5 Day**
Project Location:	*Old Livingston Hospital*	Samples Analyzed:	**13**

Gray non-fibrous flexible material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		2% Miscellaneous Particles
		98% Filler and Binder

Sampled by:	**Bob Brownell**	**12/31/2015**
Received by:	**Regina Mirabal**	**1/5/2016**
Analyzed by:	**Jude Cummings**	**1/7/2016**

Jude Cummings

Reviewed 1/6/2016 by: Jude Cummings

Chain of Custody

NVLAP Lab Code 200511-0

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101
Office Phone: (406) 245-7766
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Inspector/Contact: Bob Brownell

NIH Lab Batch ID:	16-00011
Project Name:	Old Livingston Hospital
Project Number:	999-3019
Date Samples Taken:	12/31/15
Type of Analysis:	PLM

Turnaround Time Requested	
2 Hour:	
Same Day:	
24 Hour:	
48 Hour:	
5 Day:	5 day
10 Day:	

For Lab Use Only
Sample(s) Size: Accepted ___ Rejected
Non-Conformance Memo: ___ Yes ___ No
Package Condition: Good ___ Damaged ___ Severe Damage

NIH LAB ID	SAMPLE #	SAMPLE DESCRIPTION	SAMPLE LOCATION
1	M16.3A	Concrete (1989 Addn)	Exterior Foundation Wall
2	M16.3B		of Addn
3	M16.3C		
4	FR.1A	Red Ceramic Tile + Grout (6"x6")	Room 100
5	FR.1B		Room 100A
6	FR.1C		Room 100A
7	TI2.1A	Roof Drain Bowl Insulation	Room 101
8	TI2.1B		Room 101
9	TI2.1C		Room 101
10	M8.1A	Window Caulk (gray w/white)	Room 149
11	M8.1B		Room 155
12	M8.1C		Room 146
13	M8.2A	Window Glazing Compound	Room 106
14	M8.2B	(white)	Room 196
15	M8.2C		Room 201
16	M8.3A	Window Caulk (white)	Room 106
17	M8.3B		Room 196
18	M8.3C		Room 201
19	M8.4A	Window Glazing (brn Vinyl)	Room 149
20	M8.4B		Room 155
21	M8.4C		Room 146

Special Instructions: Analyze Group Method - Stop at First Positive X Yes ___ No

Number of samples shipped this page: 21
Total number of samples shipped: 274

Relinquished By: Robert Brownell	Date: 1/4/16	Time: 1700	Firm: NIH
Received By: [illegible]	Date: 1/5/16	Time: 12:30	Firm: NIH Gr[illegible]
Analyzed By: [illegible]	Date: [illegible]	Time: [illegible]	Firm: LAB

Revised 01/20/15 RIM

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
EMAIL: Rmelgoza@bridgeband.com
NVLAP Lab Code: 200511-0

1/8/2016

Bob Brownell
Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-

RE: Bulk Asbestos Fiber Analysis; Batch # 16-00012
Project Location *Old Livingston Hospital*

Dear Bob Brownell,

Thank you for choosing Northern Industrial Hygiene, Inc. as your laboratory. Enclosed you will find analytical results for the bulk samples submitted to the laboratory.

Northern Industrial Hygiene is accredited by NVLAP Lab Code: 200511-0. Accreditation by NVLAP does not indicate endorsement by NVLAP or any other government agency. All bulk samples are analyzed in accordance with U.S. EPA Method -600/M4-82-020, December 1982 and EPA Method 600/R-93-116, July 1993. "Method for Determination of Asbestos in Bulk Building Materials"(NESHAP, 40 CFR-Part 61) protocol.

Analysis is cross checked through our inter or intra laboratory quality assurance program for verification. The percent values reported are based on calibrated visual estimates by volume unless verification by Point Count is indicated. Test results reported relate only to the samples submitted by the customer to Northern Industrial Hygiene, Inc. Trace amounts of asbestos are below the limit of detection and asbestos fibers with diameters below approximately 0.25 micrometers are not detectable with the Polarized Light Microscopy (PLM) analytical procedure. A trace amount of asbestos is defined as one to five fibers in three slide mounts. Asbestos found in this amount will be reported as "< 1.0%" by PLM analysis.

This report is highly confidential and shall not be reproduced without your written approval and the written approval of Northern Industrial Hygiene, Inc.

Samples are archived for thirty (30) days following analysis. Please contact us if samples need to be archived longer than the standard holding time.

Thank you for using Northern Industrial Hygiene, Inc. If you have any questions or concerns please contact us.

Sincerely,

Reviewed by: Jude Cummings

Enclosure: Bulk Sample Results

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00012**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Client Sample Number: **F3.5A** — Lab Sample Number: **16-00012.0001**
Client Sample Description: **9"x9" Floor Tile/Green & Mastic/Black**
Client Sample Location: **Room 201 - Northeast Corner**
Sample Comments: — Checked If Sample Not Analyzed ☐

Layer 1 **Green vinyl with white streaks**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
6% Chrysotile Asbestos		30% Aggregate
		64% Vinyl Filler and Binder

Layer 2 **Black Mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
8% Chrysotile Asbestos	5% Cellulose	87% Asphalt Filler and Binder

Client Sample Number: **F3.5B** — Lab Sample Number: **16-00012.0002**
Client Sample Description: **9"x9" Floor Tile/Green & Mastic/Black**
Client Sample Location: **Room 201 - Southeast Corner**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **F3.5C** — Lab Sample Number: **16-00012.0003**
Client Sample Description: **9"x9" Floor Tile/Green & Mastic/Black**
Client Sample Location: **Room 201 - Southeast Corner**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **F2.13A** — Lab Sample Number: **16-00012.0004**
Client Sample Description: **12"x12" Floor Tile/White W/Green & Brn Specks & Mastic**
Client Sample Location: **Room 202**
Sample Comments: — Checked If Sample Not Analyzed ☐

Layer 1 **White vinyl with green streaks**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Layer 2 **Clear mastic with gray material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	8% Cellulose	30% Fine Grains
		62% Filler and Binder

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/8/2016

Jude Cummings

Reviewed 1/8/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00012**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Client Sample Number: **F2.13B** Lab Sample Number: **16-00012.0005**
Client Sample Description: **12"x12" Floor Tile/White W/Green & Brn Specks & Mastic**
Client Sample Location: **Room 202**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Layer 2 **Clear mastic with gray material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	30% Fine Grains
		68% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **F2.13C** Lab Sample Number: **16-00012.0006**
Client Sample Description: **12"x12" Floor Tile/White W/Green & Brn Specks & Mastic**
Client Sample Location: **Room 202**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White vinyl with green and brown streaks**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate
		70% Vinyl Filler and Binder

Layer 2 **Clear mastic with gray material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	3% Cellulose	30% Fine Grains
		67% Filler and Binder

Client Sample Number: **F2.14A** Lab Sample Number: **16-00012.0007**
Client Sample Description: **12"x12" Floor Tile/Brown Marbled & Mastic**
Client Sample Location: **Room 202**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell **12/31/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/8/2016**

Jude Cummings

Reviewed 1/8/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00012**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Layer 1 **Brown streaked vinyl**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Aggregate
70% Vinyl Filler and Binder

Layer 2 **Clear mastic with gray material**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:
5% Cellulose

Non-Fibrous Components:
30% Fine Grains
65% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **F2.14B**
Client Sample Description: **12"x12" Floor Tile/Brown Marbled & Mastic**
Client Sample Location: **Room 202**
Sample Comments: **No mastic present**

Lab Sample Number: **16-00012.0008**
Checked If Sample Not Analyzed ☐

Brown streaked vinyl

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Aggregate
70% Vinyl Filler and Binder

Client Sample Number: **F2.14C**
Client Sample Description: **12"x12" Floor Tile/Brown Marbled & Mastic**
Client Sample Location: **Room 202**
Sample Comments:

Lab Sample Number: **16-00012.0009**
Checked If Sample Not Analyzed ☐

Layer 1 **Brown streaked vinyl**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Aggregate
70% Vinyl Filler and Binder

Layer 2 **Opaque sticky material**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:
3% Cellulose

Non-Fibrous Components:
10% Miscellaneous Materials
87% Filler and Binder

(Sample results continued on next page.)

Sampled by: Bob Brownell **12/31/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/8/2016**

Jude Cummings

Reviewed 1/8/2016 by: Jude Cummings

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00012**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Client Sample Number: **M3.2A** Lab Sample Number: **16-00012.0010**
Client Sample Description: **Sheetrock & Joint Compound**
Client Sample Location: **Room 137 - Southwest Corner (Original Bldg.)**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White compressed powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Filler and Binder

Layer 2 **White papery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	98% Cellulose	2% Filler and Binder

Layer 3 **Brown papery on white compressed powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	15% Cellulose 3% Fiberglass	82% Filler and Binder

Client Sample Number: **M3.2B** Lab Sample Number: **16-00012.0011**
Client Sample Description: **Sheetrock & Joint Compound**
Client Sample Location: **Room 157 - Southwest Corner (Original Bldg.)**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White paint on white compressed powder**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Paint 70% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Layer 2 **White papery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	90% Cellulose	10% Filler and Binder

Layer 3 **Brown papery on white compressed powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	15% Cellulose 2% Fiberglass	83% Filler and Binder

Comments: **Materials distinguishable but inseparable**

(Sample results continued on next page.)

Sampled by: **Bob Brownell** **12/31/2015**
Received by: **Regina Mirabal** **1/5/2016**
Analyzed by: **Jude Cummings** **1/8/2016**

Jude Cummings

Reviewed 1/8/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00012**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Client Sample Number: **M3.2C** Lab Sample Number: **16-00012.0012**
Client Sample Description: **Sheetrock & Joint Compound**
Client Sample Location: **Room 165 - Northeast Corner (Original Bldg.)**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 White compressed powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	98% Filler and Binder

Layer 2 White papery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	95% Cellulose	5% Filler and Binder

Layer 3 Brown papery on white compressed powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	15% Cellulose 2% Fiberglass	83% Filler and Binder

Client Sample Number: **M3.4A** Lab Sample Number: **16-00012.0013**
Client Sample Description: **Sheetrock & Joint Compound**
Client Sample Location: **Room 184 - Northeast Corner (1989 Addition)**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 Dull white compressed powder material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	99% Filler and Binder

Layer 2 White papery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	98% Cellulose	2% Filler and Binder

Layer 3 Bright white compressed powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	98% Filler and Binder

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/8/2016

Jude Cummings

Reviewed 1/8/2016 by: Jude Cummings

NORTHERN INDUSTRIAL HYGIENE, INC.
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OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00012**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Layer 4 **Brown papery on white compressed powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	12% Cellulose	85% Filler and Binder
	3% Fiberglass	

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **M3.4B**
Lab Sample Number: **16-00012.0014**
Client Sample Description: **Sheetrock & Joint Compound**
Client Sample Location: **Room 185 - North Wall (1989 Addition)**
Sample Comments:
Checked If Sample Not Analyzed ☐

Layer 1 **Bright white compressed powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	3% Cellulose	97% Filler and Binder

Layer 2 **White papery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	97% Cellulose	3% Filler and Binder

Layer 3 **Brown papery on white compressed powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	12% Cellulose	86% Filler and Binder
	2% Fiberglass	

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **M3.4C**
Lab Sample Number: **16-00012.0015**
Client Sample Description: **Sheetrock & Joint Compound**
Client Sample Location: **Room 188 - North Wall (1989 Addition)**
Sample Comments:
Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: **Bob Brownell** **12/31/2015**
Received by: **Regina Mirabal** **1/5/2016**
Analyzed by: **Jude Cummings** **1/8/2016**

Jude Cummings

Reviewed 1/8/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00012**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Layer 1 **Bright white compressed powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	4% Cellulose	96% Filler and Binder

Layer 2 **White papery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	98% Cellulose	2% Filler and Binder

Layer 3 **Brown papery on white compressed powdery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	12% Cellulose 3% Fiberglass	85% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **M3.5A** Lab Sample Number: **16-00012.0016**
Client Sample Description: **Gypsum Board - Behind Plaster**
Client Sample Location: **Room 127**
Sample Comments: **Materials distinguishable but inseparable** Checked If Sample Not Analyzed ☐

Gray papery on white compressed powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	25% Cellulose	75% Filler and Binder

Client Sample Number: **M3.5B** Lab Sample Number: **16-00012.0017**
Client Sample Description: **Gypsum Board - Behind Plaster**
Client Sample Location: **Room 101**
Sample Comments: **Materials distinguishable but inseparable** Checked If Sample Not Analyzed ☐

Gray papery on white compressed powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	30% Cellulose	70% Filler and Binder

Client Sample Number: **M3.5C** Lab Sample Number: **16-00012.0018**
Client Sample Description: **Gypsum Board - Behind Plaster**
Client Sample Location: **Room 151**
Sample Comments: **Materials distinguishable but inseparable** Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/8/2016

Jude Cummings

Reviewed 1/8/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00012**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Gray papery on white compressed powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	30% Cellulose	70% Filler and Binder

Client Sample Number: **M19.1A**
Client Sample Description: **4"x4" Ceramic Tile/Green With Mortar & Grout**
Client Sample Location: **Room 122**
Sample Comments:
Lab Sample Number: **16-00012.0019**
Checked If Sample Not Analyzed ☐

Layer 1 **Green on white ceramic material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		20% Fine Grains 80% Mineral Filler and Binder

Layer 2 **White gritty compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		60% Fine Grains 40% Filler and Binder

Layer 3 **Gray gritty compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		60% Fine Grains 40% Filler and Binder

Client Sample Number: **M19.1B**
Client Sample Description: **4"x4" Ceramic Tile/Green With Mortar & Grout**
Client Sample Location: **Room 123**
Sample Comments:
Lab Sample Number: **16-00012.0020**
Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/8/2016

Jude Cummings

Reviewed 1/8/2016 by: Jude Cummings

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OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00012**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Layer 1 **Green on white ceramic material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
20% Fine Grains
80% Mineral Filler and Binder

Layer 2 **White compressed powdery material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
50% Fine Grains
50% Filler and Binder

Layer 3 **Gray gritty compressed material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
60% Fine Grains
40% Filler and Binder

Client Sample Number: **M19.1C**
Client Sample Description: **4"x4" Ceramic Tile/Green With Mortar & Grout**
Client Sample Location: **Room 124**
Sample Comments:

Lab Sample Number: **16-00012.0021**

Checked If Sample Not Analyzed ☐

Layer 1 **Green on white ceramic material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
20% Fine Grains
80% Filler and Binder

Layer 2 **White compressed powdery material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
20% Fine Grains
80% Filler and Binder

Layer 3 **Gray gritty compressed material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
60% Fine Grains
40% Filler and Binder

Sampled by: Bob Brownell **12/31/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/8/2016**

Jude Cummings

Reviewed 1/8/2016 by: Jude Cummings

Chain of Custody

NVLAP Lab Code 200511-0

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101
Office Phone: (406) 245-7766
Cell Phone: (406) 647-5275
Email: bbrownell@bridgeband.com
Inspector/Contact: Bob Brownell

NIH Lab Batch ID:	16-00012
Project Name:	Old Livingston Hospital
Project Number:	999-3019
Date Samples Taken:	12/31/15
Type of Analysis:	PLM

Turnaround Time Requested	
2 Hour:	
Same Day:	
24 Hour:	
48 Hour:	
5 Day:	5 Day
10 Day:	

For Lab Use Only
Sample(s) Size:_ Accepted___Rejected
Non-Conformance Memo:_ Yes__No
Package Condition:_ Good___Damaged___Severe Damage

NIH LAB ID	SAMPLE #	SAMPLE DESCRIPTION	SAMPLE LOCATION
1	F3.5A	9"x9" Floor Tile (Green) + Mastic	Rm 201 - NE Corner
2	F3.5B	(Black)	Rm 201 - SE Corner
3	F3.5C		Rm 201 - SE Corner
4	F2.13A	12"x12" Floor Tile (White w/green	Rm 202
5	F2.13B	+ brn specks) + Mastic	Rm 202
6	F2.13C		Rm 202
7	F2.14A	12"x12" Floor Tile (brn Marbled)	Rm 202
8	F2.14B	+ Mastic	Rm 202
9	F2.14C		Rm 202
10	M3.2A	Sheetrock + Joint Compound	RM 137 - SW Corner
11	M3.2B	(Original Bldg)	Rm 157 - SW Corner
12	M3.2C		Rm 165 - NE Corner
13	M3.4A	Sheetrock + Joint Compound	Rm 184 - NE Corner
14	M3.4B	(1989 Addn)	Rm 185 - North Wall
15	M3.4C		Rm 188 - North Wall
16	M3.5A	Gypsum Board (Behind Plaster)	Rm 127
17	M3.5B		Rm 101
18	M3.5C		Rm 151
19	M9.1A	Ceramic Tile - 4"x4" (Green)	Rm 122
20	M9.1B	w/ Mortar + Grout	Rm 123
21	M9.1C		Rm 124

Special Instructions: Analyze Group Method - Stop at First Positive X **Yes** **No**

Number of samples shipped this page: 21
Total number of samples shipped: 274

Relinquished By: Robert Brownell	Date: 1/4/16	Time: 1700	Firm: NIH
Received By: [illegible]	Date: 1/5/16	Time: 12:30	Firm: NIH BVM
Analyzed By: [illegible]	Date: 1.8.16	Time: 12:45	Firm: LAB

Revised 01/20/15 RIM

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
EMAIL: Rmelgoza@bridgeband.com
NVLAP Lab Code: 200511-0

1/7/2016

Bob Brownell
Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-

RE: Bulk Asbestos Fiber Analysis; Batch # 16-00013
Project Location *Old Livingston Hospital*

Dear Bob Brownell,

Thank you for choosing Northern Industrial Hygiene, Inc. as your laboratory. Enclosed you will find analytical results for the bulk samples submitted to the laboratory.

Northern Industrial Hygiene is accredited by NVLAP Lab Code: 200511-0. Accreditation by NVLAP does not indicate endorsement by NVLAP or any other government agency. All bulk samples are analyzed in accordance with U.S. EPA Method -600/M4-82-020, December 1982 and EPA Method 600/R-93-116, July 1993. "Method for Determination of Asbestos in Bulk Building Materials"(NESHAP, 40 CFR-Part 61) protocol.

Analysis is cross checked through our inter or intra laboratory quality assurance program for verification. The percent values reported are based on calibrated visual estimates by volume unless verification by Point Count is indicated. Test results reported relate only to the samples submitted by the customer to Northern Industrial Hygiene, Inc. Trace amounts of asbestos are below the limit of detection and asbestos fibers with diameters below approximately 0.25 micrometers are not detectable with the Polarized Light Microscopy (PLM) analytical procedure. A trace amount of asbestos is defined as one to five fibers in three slide mounts. Asbestos found in this amount will be reported as "< 1.0%" by PLM analysis.

This report is highly confidential and shall not be reproduced without your written approval and the written approval of Northern Industrial Hygiene, Inc.

Samples are archived for thirty (30) days following analysis. Please contact us if samples need to be archived longer than the standard holding time.

Thank you for using Northern Industrial Hygiene, Inc. If you have any questions or concerns please contact us.

Sincerely,

Rachel Melgoza

Reviewed by: Rachel Melgoza

Enclosure: Bulk Sample Results

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00013**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Client Sample Number: **F2.12A** — Lab Sample Number: **16-00013.0001**
Client Sample Description: **12"X12" Floor Tile - Rose Speckled & Mastic**
Client Sample Location: **Room 130 - Southwest Corner**
Sample Comments: — Checked If Sample Not Analyzed ☐

Layer 1 **Beige vinyl with brown streaks**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
2% Chrysotile Asbestos		30% Aggregate
		68% Vinyl Filler and Binder

Layer 2 **Yellow adhesive and black asphalt mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
3% Chrysotile Asbestos	4% Cellulose	30% Filler and Binder
	3% Synthetic	60% Asphalt Filler and Binder

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **F2.12B** — Lab Sample Number: **16-00013.0002**
Client Sample Description: **12"X12" Floor Tile - Rose Speckled & Mastic**
Client Sample Location: **Room 130 - Northeast Corner**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **F2.12C** — Lab Sample Number: **16-00013.0003**
Client Sample Description: **12"X12" Floor Tile - Rose Speckled & Mastic**
Client Sample Location: **Room 203**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **F5.4A** — Lab Sample Number: **16-00013.0004**
Client Sample Description: **Blue Carpet & Mastic**
Client Sample Location: **Room 190 - North End**
Sample Comments: — Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Rachel Melgoza 1/7/2016

Rachel Melgoza

Reviewed 1/7/2016 by: Rachel Melgoza

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00013**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Layer 1 **Blue/brown/white/gray woven fibers**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	95% Synthetic	5% Miscellaneous Particles

Layer 2 **Gray foam with yellow pliable adhesive**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		10% Filler and Binder 90% Foam

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **F5.4B**
Client Sample Description: **Blue Carpet & Mastic**
Client Sample Location: **Room 160 - North End**
Sample Comments:
Lab Sample Number: **16-00013.0005**
Checked If Sample Not Analyzed ☐

Layer 1 **Blue/brown/white/gray woven fibers**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	95% Synthetic	5% Miscellaneous Particles

Layer 2 **Gray foam with yellow pliable adhesive**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		10% Filler and Binder 90% Foam

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **F5.4C**
Client Sample Description: **Blue Carpet & Mastic**
Client Sample Location: **Room 162 - South End**
Sample Comments:
Lab Sample Number: **16-00013.0006**
Checked If Sample Not Analyzed ☐

Layer 1 **Blue/brown/white/gray woven fibers**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	95% Synthetic	5% Miscellaneous Particles

Layer 2 **Gray foam with clear pliable adhesive**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Synthetic	8% Filler and Binder 90% Foam

Comments: **Materials distinguishable but inseparable**

(Sample results continued on next page.)

Sampled by: **Bob Brownell** **12/31/2015**
Received by: **Regina Mirabal** **1/5/2016**
Analyzed by: **Rachel Melgoza** **1/7/2016**

Rachel Melgoza

Reviewed 1/7/2016 by: Rachel Melgoza

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

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OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00013**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Client Sample Number: **F2.11A** Lab Sample Number: **16-00013.0007**
Client Sample Description: **12"X12" Floor Tile - Off-White/TanMarbled & Mastic**
Client Sample Location: **Room 145 - Southwest Corner**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Off-white with tan streaks vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate 70% Vinyl Filler and Binder

Layer 2 **Black asphalt mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
3% Chrysotile Asbestos	3% Cellulose 1% Synthetic	93% Asphalt Filler and Binder

Client Sample Number: **F2.11B** Lab Sample Number: **16-00013.0008**
Client Sample Description: **12"X12" Floor Tile - Off-White/TanMarbled & Mastic**
Client Sample Location: **Room 163 - West Wall**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Off-white with tan streaks vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		30% Aggregate 70% Vinyl Filler and Binder

Layer 2 **Mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
Not Analyzed Per Client		

Client Sample Number: **F2.11C** Lab Sample Number: **16-00013.0009**
Client Sample Description: **12"X12" Floor Tile - Off-White/TanMarbled & Mastic**
Client Sample Location: **Room 174 - North Wall**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Rachel Melgoza 1/7/2016

Rachel Melgoza
Reviewed 1/7/2016 by: Rachel Melgoza

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00013**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Layer 1 **Off-white with tan streaks vinyl**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
30% Aggregate
70% Vinyl Filler and Binder

Layer 2 **Mastic**

Asbestos Fibrous Components: **Not Analyzed Per Client**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:

Client Sample Number: **M10.2A**
Client Sample Description: **Sink Undercoat - White**
Client Sample Location: **Room 157**
Sample Comments:

Lab Sample Number: **16-00013.0010**
Checked If Sample Not Analyzed ☐

White fibrous lumpy material

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components: 13% Cellulose

Non-Fibrous Components: 87% Filler and Binder

Client Sample Number: **M10.2B**
Client Sample Description: **Sink Undercoat - White**
Client Sample Location: **Room 158**
Sample Comments:

Lab Sample Number: **16-00013.0011**
Checked If Sample Not Analyzed ☐

White fibrous lumpy material

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components: 13% Cellulose

Non-Fibrous Components: 87% Filler and Binder

Client Sample Number: **M10.2C**
Client Sample Description: **Sink Undercoat - White**
Client Sample Location: **Room 195**
Sample Comments:

Lab Sample Number: **16-00013.0012**
Checked If Sample Not Analyzed ☐

White fibrous lumpy material

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components: 13% Cellulose

Non-Fibrous Components: 87% Filler and Binder

(Sample results continued on next page.)

Sampled by: Bob Brownell **12/31/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Rachel Melgoza **1/7/2016**

Rachel Melgoza

Reviewed 1/7/2016 by: Rachel Melgoza

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00013**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Client Sample Number: **M10.3A**
Client Sample Description: **Sink Undercoat - Gray**
Client Sample Location: **Room 159**
Sample Comments:
Lab Sample Number: **16-00013.0013**
Checked If Sample Not Analyzed ☐

Gray fibrous lumpy material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	15% Cellulose	85% Filler and Binder

Client Sample Number: **M10.3B**
Client Sample Description: **Sink Undercoat - Gray**
Client Sample Location: **Room 205**
Sample Comments:
Lab Sample Number: **16-00013.0014**
Checked If Sample Not Analyzed ☐

Gray fibrous lumpy material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	15% Cellulose	85% Filler and Binder

Client Sample Number: **M10.3C**
Client Sample Description: **Sink Undercoat - Gray**
Client Sample Location: **Room 205**
Sample Comments:
Lab Sample Number: **16-00013.0015**
Checked If Sample Not Analyzed ☐

Gray fibrous lumpy material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	15% Cellulose	85% Filler and Binder

Client Sample Number: **F1.6A**
Client Sample Description: **12"X12" Vinyl Sheet Flooring - White Tile Pattern & Mastic**
Client Sample Location: **Room 161 - NW Corner**
Sample Comments: **Materials distinguishable but inseparable**
Lab Sample Number: **16-00013.0016**
Checked If Sample Not Analyzed ☐

White/tan vinyl with white fibrous backing and yellow adhesive

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	10% Cellulose	40% Filler and Binder
	5% Fiberglass	25% Foam
		20% Vinyl Filler and Binder

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Rachel Melgoza 1/7/2016

Rachel Melgoza

Reviewed 1/7/2016 by: Rachel Melgoza

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00013**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Client Sample Number: **F1.6B** Lab Sample Number: **16-00013.0017**
Client Sample Description: **12"X12" Vinyl Sheet Flooring - White Tile Pattern & Mastic**
Client Sample Location: **Room 161 - NW Corner**
Sample Comments: **Materials distinguishable but inseparable** Checked If Sample Not Analyzed ☐

White/tan vinyl with white fibrous backing and yellow adhesive

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	10% Cellulose	40% Filler and Binder
	5% Fiberglass	25% Foam
		20% Vinyl Filler and Binder

Client Sample Number: **F1.6C** Lab Sample Number: **16-00013.0018**
Client Sample Description: **12"X12" Vinyl Sheet Flooring - White Tile Pattern & Mastic**
Client Sample Location: **Room 161 - NW Corner**
Sample Comments: **Materials distinguishable but inseparable** Checked If Sample Not Analyzed ☐

White/tan vinyl with white fibrous backing and yellow adhesive

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	10% Cellulose	40% Filler and Binder
	5% Fiberglass	25% Foam
		20% Vinyl Filler and Binder

Client Sample Number: **F3.4A** Lab Sample Number: **16-00013.0019**
Client Sample Description: **9"X9" Gray FloorTile & Mastic with Leveling Compound**
Client Sample Location: **Room 160**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Clear adhesive on white coarse compressed powder**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	98% Filler and Binder
	1% Synthetic	

Comments: **Materials distinguishable but inseparable**

Layer 2 **Tan vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
5% Chrysotile Asbestos		30% Aggregate
		65% Vinyl Filler and Binder

(Sample results continued on next page.)

Sampled by: Bob Brownell **12/31/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Rachel Melgoza **1/7/2016**

Rachel Melgoza

Reviewed 1/7/2016 by: Rachel Melgoza

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

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OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00013**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Layer 3 **Black fibrous asphalt**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
4% Chrysotile Asbestos	2% Cellulose	94% Asphalt Filler and Binder

Client Sample Number: **F3.4B** Lab Sample Number: **16-00013.0020**
Client Sample Description: **9"X9" Gray FloorTile & Mastic with Leveling Compound**
Client Sample Location: **Room 160**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Clear adhesive on white coarse compressed powder**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose 1% Synthetic	98% Filler and Binder

Layer 2 **Vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
Not Analyzed Per Client		

Layer 3 **Mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
Not Analyzed Per Client		

Client Sample Number: **F3.4C** Lab Sample Number: **16-00013.0021**
Client Sample Description: **9"X9" Gray FloorTile & Mastic with Leveling Compound**
Client Sample Location: **Room 160**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Clear adhesive on white coarse compressed powder**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose 1% Synthetic	98% Filler and Binder

Layer 2 **Vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
Not Analyzed Per Client		

Layer 3 **Mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
Not Analyzed Per Client		

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Rachel Melgoza 1/7/2016

Rachel Melgoza

Reviewed 1/7/2016 by: Rachel Melgoza

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00013**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Sampled by:	**Bob Brownell**	**12/31/2015**
Received by:	**Regina Mirabal**	**1/5/2016**
Analyzed by:	**Rachel Melgoza**	**1/7/2016**

Rachel Melgoza

Reviewed 1/7/2016 by: Rachel Melgoza

Chain of Custody

NVLAP Lab Code 200511-0

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101
Office Phone: (406) 245-7766
Cell Phone: (406) 647-5275
Email: bbrownell@bridgeband.com
Inspector/Contact: Bob Brownell

NIH Lab Batch ID:	16-000013
Project Name:	Old Livingston Hospital
Project Number:	999-3019
Date Samples Taken:	12/31/15
Type of Analysis:	PLM

Turnaround Time Requested	
2 Hour:	
Same Day:	
24 Hour:	
48 Hour:	
5 Day:	5-day
10 Day:	

For Lab Use Only
Sample(s) Size: ✓ Accepted ___ Rejected
Non-Conformance Memo: ___ Yes ✓ No
Package Condition: ✓ Good ___ Damaged ___ Severe Damage

NIH LAB ID	SAMPLE #	SAMPLE DESCRIPTION	SAMPLE LOCATION
0001	F2.12A	12"x12" Floor Tile (rose, marbled)	Rm 130 - SW Corner
2	F2.12B	+ Mastic	Rm 130 - NE Corner
3	F2.12C		Rm 203
4	F5.4A	Blue Carpet + Mastic	Rm 190 - North End
5	F5.4B		Rm 160 - North End
6	F5.4C		Rm 162 - South End
7	F2.11A	12"x12" Floor Tile (off-white + Tan	Rm 145 - SW Corner
8	F2.11B	marbled) + Mastic	Rm 163 - West Wall
9	F2.11C		Rm 174 - North Wall
10	M10.2A	Sink Undercoat (white)	Rm 157
11	M10.2B		Rm 158
12	M10.2C		Rm 195
13	M10.3A	Sink Undercoat (grey)	Rm 159
14	M10.3B		Rm 205
15	M10.3C		Rm 205
16	F1.6A	Vinyl Sheet Flooring - (12"x12" Tile	Rm 161 - NW Corner
17	F1.6B	Pattern, white) + Mastic	Rm 161 - NW Corner
18	F1.6C		Rm 161 - NW Corner
19	F3.4A	9"x9" Floor Tile (grey) + Mastic	Rm 160
20	F3.4B	+ leveling Compound	Rm 160
21	F3.4C		Rm 160

Special Instructions: Analyze Group Method - Stop at First Positive X Yes No

Number of samples shipped this page: 21
Total number of samples shipped: 274

Relinquished By: Robert B Brownell	Date: 1/4/16	Time: 1700	Firm: NIH
Received By: [illegible]	Date: 1/5/16	Time: 12:30	Firm: NIH Billings
Analyzed By: Rachel Mulqueen	Date: 01/07/16	Time: 0730	Firm: NIH Billings

Revised 01/20/15 RIM

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
EMAIL: Rmelgoza@bridgeband.com
NVLAP Lab Code: 200511-0

1/7/2016

Bob Brownell
Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-

RE: Bulk Asbestos Fiber Analysis; Batch # 16-00014
Project Location *Old Livingston Hospital*

Dear Bob Brownell,

Thank you for choosing Northern Industrial Hygiene, Inc. as your laboratory. Enclosed you will find analytical results for the bulk samples submitted to the laboratory.

Northern Industrial Hygiene is accredited by NVLAP Lab Code: 200511-0. Accreditation by NVLAP does not indicate endorsement by NVLAP or any other government agency. All bulk samples are analyzed in accordance with U.S. EPA Method -600/M4-82-020, December 1982 and EPA Method 600/R-93-116, July 1993. "Method for Determination of Asbestos in Bulk Building Materials"(NESHAP, 40 CFR-Part 61) protocol.

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This report is highly confidential and shall not be reproduced without your written approval and the written approval of Northern Industrial Hygiene, Inc.

Samples are archived for thirty (30) days following analysis. Please contact us if samples need to be archived longer than the standard holding time.

Thank you for using Northern Industrial Hygiene, Inc. If you have any questions or concerns please contact us.

Sincerely,

Jude Cummings

Reviewed by: Jude Cummings

Enclosure: Bulk Sample Results

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00014**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **17**

Client Sample Number: **F3.3A** — Lab Sample Number: **16-00014.0001**
Client Sample Description: **9"x9" Floor Tile/Red & Mastic/Black**
Client Sample Location: **Room 106**
Sample Comments:
Checked If Sample Not Analyzed ☐

Layer 1 **Red vinyl with white streaks**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
8% Chrysotile Asbestos		30% Aggregate
		62% Vinyl Filler and Binder

Layer 2 **Black Mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
5% Chrysotile Asbestos	3% Cellulose	92% Asphalt Filler and Binder

Client Sample Number: **F3.3B** — Lab Sample Number: **16-00014.0002**
Client Sample Description: **9"x9" Floor Tile/Red & Mastic/Black**
Client Sample Location: **Room 106**
Sample Comments: **Not Analyzed Per Client Request**
Checked If Sample Not Analyzed ☑

Client Sample Number: **F3.3C** — Lab Sample Number: **16-00014.0003**
Client Sample Description: **9"x9" Floor Tile/Red & Mastic/Black**
Client Sample Location: **Room 106**
Sample Comments: **Not Analyzed Per Client Request**
Checked If Sample Not Analyzed ☑

Client Sample Number: **M10.1A** — Lab Sample Number: **16-00014.0004**
Client Sample Description: **Sink Undercoat - Black**
Client Sample Location: **Room 126**
Sample Comments:
Checked If Sample Not Analyzed ☐

Black asphalt

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
4% Chrysotile Asbestos	5% Cellulose	91% Asphalt Filler and Binder

Client Sample Number: **M10.1B** — Lab Sample Number: **16-00014.0005**
Client Sample Description: **Sink Undercoat - Black**
Client Sample Location: **Room 127**
Sample Comments: **Not Analyzed Per Client Request**
Checked If Sample Not Analyzed ☑

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/7/2016

Jude Cummings

Reviewed 1/7/2016 by: Jude Cummings

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00014**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **17**

Client Sample Number: **M10.1C** — Lab Sample Number: **16-00014.0006**
Client Sample Description: **Sink Undercoat - Black**
Client Sample Location: **Room 111**
Sample Comments: **Not Analyzed Per Client Request** — Checked If Sample Not Analyzed ☑

Client Sample Number: **F1.4A** — Lab Sample Number: **16-00014.0007**
Client Sample Description: **Vinyl Sheet Flooring/Purple/Gray & Mastic**
Client Sample Location: **Room 109**
Sample Comments: — Checked If Sample Not Analyzed ☐

Layer 1 **Black, tan and brown vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	6% Cellulose	94% Vinyl Filler and Binder

Layer 2 **Tan woven fibers with tan mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	40% Cellulose	60% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **F1.4B** — Lab Sample Number: **16-00014.0008**
Client Sample Description: **Vinyl Sheet Flooring/Purple/Gray & Mastic**
Client Sample Location: **Room 109**
Sample Comments: — Checked If Sample Not Analyzed ☐

Layer 1 **Black, tan and brown vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	5% Cellulose	95% Vinyl Filler and Binder

Layer 2 **Tan woven fibers with tan mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	45% Cellulose	55% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **F1.4C** — Lab Sample Number: **16-00014.0009**
Client Sample Description: **Vinyl Sheet Flooring/Purple/Gray & Mastic**
Client Sample Location: **Room 109**
Sample Comments: — Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: **Bob Brownell** **12/31/2015**
Received by: **Regina Mirabal** **1/5/2016**
Analyzed by: **Jude Cummings** **1/7/2016**

Jude Cummings

Reviewed 1/7/2016 by: Jude Cummings

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00014**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **17**

Layer 1 **Black, tan and brown vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	5% Cellulose	95% Vinyl Filler and Binder

Layer 2 **Tan woven fibers**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	98% Cellulose	2% Filler and Binder

Client Sample Number: **F5.3A** Lab Sample Number: **16-00014.0010**
Client Sample Description: **Carpet/Brown & Mastic**
Client Sample Location: **Room 137**
Sample Comments: **Materials distinguishable but inseparable** Checked If Sample Not Analyzed ☐

Blue, tan and white carpet fibers with off-white mastic residue

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	94% Synthetic	2% Miscellaneous Particles
		4% Filler and Binder

Client Sample Number: **F5.3B** Lab Sample Number: **16-00014.0011**
Client Sample Description: **Carpet/Brown & Mastic**
Client Sample Location: **Room 159**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Tan, white and gray carpet fibers on gray backing**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	75% Synthetic	2% Miscellaneous Particles
		23% Filler and Binder

Layer 2 **Off-white mastic residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	97% Filler and Binder
	2% Synthetic	

Client Sample Number: **F5.3C** Lab Sample Number: **16-00014.0012**
Client Sample Description: **Carpet/Brown & Mastic**
Client Sample Location: **Room 189**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell **12/31/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Jude Cummings **1/7/2016**

Jude Cummings

Reviewed 1/7/2016 by: Jude Cummings

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00014**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **17**

Layer 1 **Blue, white and tan linear carpet fibers on brown backing**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	75% Synthetic	3% Miscellaneous Particles 22% Filler and Binder

Layer 2 **Off-white mastic residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Synthetic	98% Filler and Binder

Client Sample Number: **M12.5A** Lab Sample Number: **16-00014.0013**
Client Sample Description: **Cove Base Mastic - White**
Client Sample Location: **Room 126**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Tan vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 **Tan mastic with white powdery residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	99% Filler and Binder

Client Sample Number: **M12.5B** Lab Sample Number: **16-00014.0014**
Client Sample Description: **Cove Base Mastic - White**
Client Sample Location: **Room 110**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Off-white vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 **Off-white mastic with brown fibers**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	12% Cellulose	88% Filler and Binder

Client Sample Number: **M12.5C** Lab Sample Number: **16-00014.0015**
Client Sample Description: **Cove Base Mastic - White**
Client Sample Location: **Room 205**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/7/2016

Jude Cummings

Reviewed 1/7/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00014**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **17**

Layer 1 **Medium brown vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 **White mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Filler and Binder

Client Sample Number: **M12.6A** Lab Sample Number: **16-00014.0016**
Client Sample Description: **Cove Base Mastic - Yellowish Brown**
Client Sample Location: **Room 116**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Medium brown vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 **Dark yellow mastic with fibrous residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	20% Cellulose	80% Filler and Binder

Comments: **Materials distinguishable but inseparable**

Client Sample Number: **M12.6B** Lab Sample Number: **16-00014.0017**
Client Sample Description: **Cove Base Mastic - Yellowish Brown**
Client Sample Location: **Room 116**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Tan vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 **Orange mastic with fibrous residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	15% Cellulose	85% Filler and Binder

Client Sample Number: **M12.6C** Lab Sample Number: **16-00014.0018**
Client Sample Description: **Cove Base Mastic - Yellowish Brown**
Client Sample Location: **Room 116**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/7/2016

Jude Cummings

Reviewed 1/7/2016 by: Jude Cummings

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00014**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **17**

Layer 1 **Tan vinyl**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 **Orange mastic with fibrous residue**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	15% Cellulose	85% Filler and Binder

Client Sample Number: **F2.16A** Lab Sample Number: **16-00014.0019**
Client Sample Description: **12"x12" Floor Tile/White/Black Granite & Mastic**
Client Sample Location: **Room 151 - West End**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White vinyl with black and gray lines**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 **Black Mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
5% Chrysotile Asbestos	3% Cellulose	92% Asphalt Filler and Binder

Client Sample Number: **F2.16B** Lab Sample Number: **16-00014.0020**
Client Sample Description: **12"x12" Floor Tile/White/Black Granite & Mastic**
Client Sample Location: **Room 151 - Middle**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White vinyl with black and gray lines**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 **Black Mastic**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
Not Analyzed Per Client		

Client Sample Number: **F2.16C** Lab Sample Number: **16-00014.0021**
Client Sample Description: **12"x12" Floor Tile/White/Black Granite & Mastic**
Client Sample Location: **Room 151 - East End**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/7/2016

Jude Cummings

Reviewed 1/7/2016 by: Jude Cummings

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00014**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **17**

Layer 1 **White vinyl with black and gray lines**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 **Black asphalt**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
Not Analyzed Per Client		

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Jude Cummings 1/7/2016

Jude Cummings

Reviewed 1/7/2016 by: Jude Cummings

Chain of Custody

NVLAP Lab Code 200511-0

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101
Office Phone: (406) 245-7766
Cell Phone: (406) 647-5275
Email: bbrownell@bridgeband.com
Inspector/Contact: Bob Brownell

NIH Lab Batch ID:	16-00014
Project Name:	Old Livingston Hospital
Project Number:	999-3019
Date Samples Taken:	12/31/15
Type of Analysis:	PLM

Turnaround Time Requested	
2 Hour:	
Same Day:	
24 Hour:	
48 Hour:	
5 Day:	5-day
10 Day:	

For Lab Use Only
Sample(s) Size: Accepted ___ Rejected
Non-Conformance Memo: ___ Yes ___ No
Package Condition: Good ___ Damaged ___ Severe Damage

NIH LAB ID	SAMPLE #	SAMPLE DESCRIPTION	SAMPLE LOCATION
1	F3.3A	9"x9" Floor Tile (Red) +	Rm 106
2	F3.3B	Mastic (Black)	Rm 106
3	F3.3C		Rm 106
4	M10.1A	Sink Undercoat (Black)	Rm 126
5	M10.1B		Rm 127
6	M10.1C		Rm 111
7	F1.4A	Vinyl Sheet Flooring (Purple + Gray)	Rm 109
8	F1.4B	+ Mastic	Rm 109
9	F1.4C		Rm 109
10	F5.3A	Carpet (Brown) + Mastic	Rm 137
11	F5.3B		Rm 159
12	F5.3C		Rm 189
13	M12.5A	Cove Base Mastic (white)	Rm 126
14	M12.5B		Rm 110
15	M12.5C		Rm 205
16	M12.6A	Cove Base Mastic (Yellowish Brown)	Rm 116
17	M12.6B		Rm 116
18	M12.6C		Rm 116
19	F2.16A	12"x12" Floor Tile (white + Black	Rm 151 - West End
20	F2.16B	granite) + Mastic	Rm 151 - Middle
21	F2.16C		Rm 151 - East End

Special Instructions: Analyze Group Method - Stop at First Positive X Yes ___ No

Number of samples shipped this page: 21

Total number of samples shipped: 274

Relinquished By: Robert D Brownell	Date: 1/4/16	Time: 1700	Firm: NIH
Received By: [illegible]	Date: 1/5/16	Time: 12:30	Firm: NIH Billings
Analyzed By: [illegible]	Date: 1/7/16	Time: 15:15	Firm: [illegible]

Revised 01/20/15 RIM

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
EMAIL: Rmelgoza@bridgeband.com
NVLAP Lab Code: 200511-0

1/11/2016

Bob Brownell
Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-

RE: Bulk Asbestos Fiber Analysis; Batch # 16-00015
Project Location *Old Livingston Hospital*

Dear Bob Brownell,

Thank you for choosing Northern Industrial Hygiene, Inc. as your laboratory. Enclosed you will find analytical results for the bulk samples submitted to the laboratory.

Northern Industrial Hygiene is accredited by NVLAP Lab Code: 200511-0. Accreditation by NVLAP does not indicate endorsement by NVLAP or any other government agency. All bulk samples are analyzed in accordance with U.S. EPA Method -600/M4-82-020, December 1982 and EPA Method 600/R-93-116, July 1993. "Method for Determination of Asbestos in Bulk Building Materials"(NESHAP, 40 CFR-Part 61) protocol.

Analysis is cross checked through our inter or intra laboratory quality assurance program for verification. The percent values reported are based on calibrated visual estimates by volume unless verification by Point Count is indicated. Test results reported relate only to the samples submitted by the customer to Northern Industrial Hygiene, Inc. Trace amounts of asbestos are below the limit of detection and asbestos fibers with diameters below approximately 0.25 micrometers are not detectable with the Polarized Light Microscopy (PLM) analytical procedure. A trace amount of asbestos is defined as one to five fibers in three slide mounts. Asbestos found in this amount will be reported as "< 1.0%" by PLM analysis.

This report is highly confidential and shall not be reproduced without your written approval and the written approval of Northern Industrial Hygiene, Inc.

Samples are archived for thirty (30) days following analysis. Please contact us if samples need to be archived longer than the standard holding time.

Thank you for using Northern Industrial Hygiene, Inc. If you have any questions or concerns please contact us.

Sincerely,

Rachel Melgoza

Reviewed by: Rachel Melgoza

Enclosure: Bulk Sample Results

NORTHERN INDUSTRIAL HYGIENE, INC.
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OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00015**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Client Sample Number: **M7.1A** Lab Sample Number: **16-00015.0001**
Client Sample Description: **Plaster Wall System**
Client Sample Location: **Room 101 - North End, over Expanded Metal/Gypsum Board**
Sample Comments: Checked If Sample Not Analyzed ☐

White grainy compressed powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Mineral Fibers	75% Filler and Binder
		23% Perlite

Client Sample Number: **M7.1B** Lab Sample Number: **16-00015.0002**
Client Sample Description: **Plaster Wall System**
Client Sample Location: **Room 101 - South End, over Expanded Metal/Gypsum Board**
Sample Comments: **Materials distinguishable but inseparable** Checked If Sample Not Analyzed ☐

Red and yellow paint layers on white grainy compressed powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Mineral Fibers	55% Filler and Binder
		19% Paint
		25% Perlite

Client Sample Number: **M7.1C** Lab Sample Number: **16-00015.0003**
Client Sample Description: **Plaster Wall System**
Client Sample Location: **Room 140, over Expanded Metal/Gypsum Board**
Sample Comments: Checked If Sample Not Analyzed ☐

White grainy compressed powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Mineral Fibers	73% Filler and Binder
		25% Perlite

Client Sample Number: **M7.1D** Lab Sample Number: **16-00015.0004**
Client Sample Description: **Plaster Wall System**
Client Sample Location: **Room 127, over Expanded Metal/Gypsum Board**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Rachel Melgoza 1/8/2016

Rachel Melgoza
Reviewed 1/11/2016 by: Rachel Melgoza

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00015**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

White grainy compressed powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Mineral Fibers	75% Filler and Binder
		23% Perlite

Client Sample Number: **M7.1E**
Lab Sample Number: **16-00015.0005**
Client Sample Description: **Plaster Wall System**
Client Sample Location: **Room 162 - North End, over Expanded Metal/Gypsum Board**
Sample Comments:
Checked If Sample Not Analyzed ☐

White grainy compressed powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Mineral Fibers	73% Filler and Binder
		25% Perlite

Client Sample Number: **M7.1F**
Lab Sample Number: **16-00015.0006**
Client Sample Description: **Plaster Wall System**
Client Sample Location: **Room 162 - South End, over Expanded Metal/Gypsum Board**
Sample Comments:
Checked If Sample Not Analyzed ☐

White grainy compressed powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Mineral Fibers	75% Filler and Binder
		23% Perlite

Client Sample Number: **M7.1G**
Lab Sample Number: **16-00015.0007**
Client Sample Description: **Plaster Wall System**
Client Sample Location: **Room 193 - North End, over Expanded Metal/Gypsum Board**
Sample Comments: **Materials distinguishable but inseparable**
Checked If Sample Not Analyzed ☐

White and green paint layers on white grainy compressed powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Mineral Fibers	60% Filler and Binder
		13% Paint
		25% Perlite

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Rachel Melgoza 1/8/2016

Rachel Melgoza

Reviewed 1/11/2016 by: Rachel Melgoza

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00015**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Client Sample Number: **F7.1A** Lab Sample Number: **16-00015.0008**
Client Sample Description: **1"X1" Brown Ceramic Tile & Grout**
Client Sample Location: **Room 164**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White and tan with black speck ceramic material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Mineral Filler and Binder

Layer 2 **Gray gritty material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	65% Aggregate
		33% Filler and Binder

Client Sample Number: **F7.1B** Lab Sample Number: **16-00015.0009**
Client Sample Description: **1"X1" Brown Ceramic Tile & Grout**
Client Sample Location: **Room 172 - Restroom**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White and tan with black speck ceramic material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Mineral Filler and Binder

Layer 2 **Gray gritty material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	69% Aggregate
		30% Filler and Binder

Client Sample Number: **F7.1C** Lab Sample Number: **16-00015.0010**
Client Sample Description: **1"X1" Brown Ceramic Tile & Grout**
Client Sample Location: **Room 185 - Restroom**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Rachel Melgoza 1/8/2016

Rachel Melgoza

Reviewed 1/11/2016 by: Rachel Melgoza

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OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00015**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Layer 1 **White and tan with black speck ceramic material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Mineral Filler and Binder

Layer 2 **Gray gritty material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	2% Cellulose	67% Aggregate
		31% Filler and Binder

Client Sample Number: **M8.5A** Lab Sample Number: **16-00015.0011**
Client Sample Description: **4"X4" White Ceramic Tile - with Mastic & Grout**
Client Sample Location: **Room 164**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White ceramic material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Mineral Filler and Binder

Layer 2 **Light-brown adhesive**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	99% Filler and Binder

Comments: **No grout present**

Client Sample Number: **M8.5B** Lab Sample Number: **16-00015.0012**
Client Sample Description: **4"X4" White Ceramic Tile - with Mastic & Grout**
Client Sample Location: **Room 172 - Restroom**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White ceramic material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Mineral Filler and Binder

Layer 2 **Light-brown adhesive**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	99% Filler and Binder

(Sample results continued on next page.)

Sampled by: Bob Brownell **12/31/2015**
Received by: Regina Mirabal **1/5/2016**
Analyzed by: Rachel Melgoza **1/11/2016**

Rachel Melgoza

Reviewed 1/11/2016 by: Rachel Melgoza

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

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OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00015**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Client Sample Number: **M8.5C** Lab Sample Number: **16-00015.0013**
Client Sample Description: **4"X4" White Ceramic Tile - with Mastic & Grout**
Client Sample Location: **Room 185 - Restroom**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **White ceramic material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Mineral Filler and Binder

Layer 2 **Light-brown adhesive**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	99% Filler and Binder

Client Sample Number: **M17.3A** Lab Sample Number: **16-00015.0014**
Client Sample Description: **Red Clay Block & Mortar**
Client Sample Location: **Room 101**
Sample Comments: Checked If Sample Not Analyzed ☐

Layer 1 **Red gritty/grainy compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		10% Aggregate
		60% Filler and Binder
		30% Fine Grains

Layer 2 **Tan and gray gritty compressed material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		60% Aggregate
		40% Filler and Binder

Client Sample Number: **M17.3B** Lab Sample Number: **16-00015.0015**
Client Sample Description: **Red Clay Block & Mortar**
Client Sample Location: **Room 163**
Sample Comments: Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Rachel Melgoza 1/11/2016

Rachel Melgoza

Reviewed 1/11/2016 by: Rachel Melgoza

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00015**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Layer 1 **Red gritty/grainy compressed material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
10% Aggregate
60% Filler and Binder
30% Fine Grains

Layer 2 **Tan and gray gritty compressed material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
60% Aggregate
40% Filler and Binder

Client Sample Number: **M17.3C**
Client Sample Description: **Red Clay Block & Mortar**
Client Sample Location: **Room 170**
Sample Comments:

Lab Sample Number: **16-00015.0016**
Checked If Sample Not Analyzed ☐

Layer 1 **Red gritty/grainy compressed material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
10% Aggregate
60% Filler and Binder
30% Fine Grains

Layer 2 **Tan and gray gritty compressed material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
60% Aggregate
40% Filler and Binder

Client Sample Number: **M17.4A**
Client Sample Description: **Light-Brown Brick & Mortar**
Client Sample Location: **Entry Way Near 192 - Exterior**
Sample Comments:

Lab Sample Number: **16-00015.0017**
Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Rachel Melgoza 1/11/2016

Rachel Melgoza

Reviewed 1/11/2016 by: Rachel Melgoza

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NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00015**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Layer 1 **Light-brown gritty/grainy compressed material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
15% Aggregate
60% Filler and Binder
25% Fine Grains

Layer 2 **Tan and gray gritty compressed material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
60% Aggregate
40% Filler and Binder

Client Sample Number: **M17.4B**
Client Sample Description: **Light-Brown Brick & Mortar**
Client Sample Location: **Room 154 - Southeast Corner - Exterior**
Sample Comments:

Lab Sample Number: **16-00015.0018**
Checked If Sample Not Analyzed ☐

Layer 1 **Light-brown gritty/grainy compressed material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
15% Aggregate
60% Filler and Binder
25% Fine Grains

Layer 2 **Tan and gray gritty compressed material**

Asbestos Fibrous Components: **No Asbestos Detected**

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
60% Aggregate
40% Filler and Binder

Client Sample Number: **M17.4C**
Client Sample Description: **Light-Brown Brick & Mortar**
Client Sample Location: **Room 122 - Northwest Corner - Exterior**
Sample Comments:

Lab Sample Number: **16-00015.0019**
Checked If Sample Not Analyzed ☐

(Sample results continued on next page.)

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Rachel Melgoza 1/11/2016

Rachel Melgoza

Reviewed 1/11/2016 by: Rachel Melgoza

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Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00015**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **19**

Layer 1 **Light-brown gritty/grainy compressed material**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
15% Aggregate
60% Filler and Binder
25% Fine Grains

Layer 2 **Tan and gray gritty compressed material**

Asbestos Fibrous Components:
No Asbestos Detected

Non-Asbestos Fibrous Components:

Non-Fibrous Components:
60% Aggregate
40% Filler and Binder

Sampled by: Bob Brownell 12/31/2015
Received by: Regina Mirabal 1/5/2016
Analyzed by: Rachel Melgoza 1/11/2016

Rachel Melgoza

Reviewed 1/11/2016 by: Rachel Melgoza

NVLAP Lab Code 200511-0

Chain of Custody

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101
Office Phone: (406) 245-7766
Cell Phone: (406) 647-5275
Email: bbrownell@bridgeband.com
Inspector/Contact: Bob Brownell

NIH Lab Batch ID:	16-00015
Project Name:	Old Livingston Hospital
Project Number:	999-3019
Date Samples Taken:	12/31/15
Type of Analysis:	PLM

Turnaround Time Requested
2 Hour:
Same Day:
24 Hour:
48 Hour:
5 Day: ✓ 5-Day
10 Day:

For Lab Use Only
Sample(s) Size: ✓ Accepted ___ Rejected
Non-Conformance Memo: ___ Yes ✓ No
Package Condition: ✓ Good ___ Damaged ___ Severe Damage

NIH LAB ID	SAMPLE #	SAMPLE DESCRIPTION	SAMPLE LOCATION
001	M7.1A	Plaster Wall System (Lower	Rm 101 - North End
2	M7.1B	Expanded Metal + Gyp Board)	Rm 101 - South End
3	M7.1C		Rm 140
4	M7.1D		Rm 127
5	M7.1E		Rm 162 - North End
6	M7.1F		Rm 162 - South End
7	M7.1G		Rm 193 - North End
8	F7.1A	1"x1" Ceramic Tile (Brown) +	Rm 164
9	F7.1B	Grout	Rm 172 - RR
10	F7.1C		Rm 185 - RR
11	M8.5A	4"x4" Ceramic Tile (white)	Rm 164
12	M8.5B	+ Mastic + Grout	Rm 172 - RR
13	M8.5C		Rm 185 - RR
14	M17.3A	Red Clay Block + Mortar	Rm 101
15	M17.3B		Rm 163
16	M17.3C		Rm 170
17	M17.4A	Lt Brown Brick + Mortar	Entryway Near 192
18	M17.4B	(Exterior)	Rm 154 - SE Corner
19	M17.4C		Rm 122 - NW Corner

Special Instructions: Analyze Group Method - Stop at First Positive ✓ Yes ___ No
Number of samples shipped this page: 19
Total number of samples shipped: 274

Relinquished By: Robert Brownell	Date: 1/4/16	Time: 12:00	Firm: NIH
Received By: [illegible]	Date: 1/5/16	Time: 12:30	Firm: NIH BVR
Analyzed By: Rachel Milgor	Date: 01/08/16	Time: 0730	Firm: NIH Bvr

Revised 01/20/15 RIM

NORTHERN INDUSTRIAL HYGIENE, INC.
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OFFICE: (206) 988-1746 FAX: (206) 988-1978
EMAIL: Rmelgoza@bridgeband.com
NVLAP Lab Code: 200511-0

2/2/2016

Bob Brownell
Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-

RE: Bulk Asbestos Fiber Analysis; Batch # 16-00100
Project Location *Old Livingston Hospital*

Dear Bob Brownell,

Thank you for choosing Northern Industrial Hygiene, Inc. as your laboratory. Enclosed you will find analytical results for the bulk samples submitted to the laboratory.

Northern Industrial Hygiene is accredited by NVLAP Lab Code: 200511-0. Accreditation by NVLAP does not indicate endorsement by NVLAP or any other government agency. All bulk samples are analyzed in accordance with U.S. EPA Method -600/M4-82-020, December 1982 and EPA Method 600/R-93-116, July 1993. "Method for Determination of Asbestos in Bulk Building Materials"(NESHAP, 40 CFR-Part 61) protocol.

Analysis is cross checked through our inter or intra laboratory quality assurance program for verification. The percent values reported are based on calibrated visual estimates by volume unless verification by Point Count is indicated. Test results reported relate only to the samples submitted by the customer to Northern Industrial Hygiene, Inc. Trace amounts of asbestos are below the limit of detection and asbestos fibers with diameters below approximately 0.25 micrometers are not detectable with the Polarized Light Microscopy (PLM) analytical procedure. A trace amount of asbestos is defined as one to five fibers in three slide mounts. Asbestos found in this amount will be reported as "< 1.0%" by PLM analysis.

This report is highly confidential and shall not be reproduced without your written approval and the written approval of Northern Industrial Hygiene, Inc.

Samples are archived for thirty (30) days following analysis. Please contact us if samples need to be archived longer than the standard holding time.

Thank you for using Northern Industrial Hygiene, Inc. If you have any questions or concerns please contact us.

Sincerely,

Rachel Melgoza

Reviewed by: Rachel Melgoza

Enclosure: Bulk Sample Results

NORTHERN INDUSTRIAL HYGIENE, INC.
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215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00100**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **6**

Client Sample Number: **D-1**
Client Sample Description: **Paper Debris - White**
Client Sample Location: **East Crawlspace**
Sample Comments:
Lab Sample Number: **16-00100.0001**
Checked If Sample Not Analyzed ☐

White fibrous papery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
45% Chrysotile Asbestos	15% Cellulose	40% Filler and Binder

Client Sample Number: **D-2**
Client Sample Description: **Hard Fitting Debris - White**
Client Sample Location: **East Crawlspace**
Sample Comments:
Lab Sample Number: **16-00100.0002**
Checked If Sample Not Analyzed ☐

White compressed chalky powder

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	96% Filler and Binder
	1% Synthetic	2% Perlite

Client Sample Number: **D-3**
Client Sample Description: **Paper Debris - White**
Client Sample Location: **Laundry Crawlspace**
Sample Comments:
Lab Sample Number: **16-00100.0003**
Checked If Sample Not Analyzed ☐

White fibrous papery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
25% Chrysotile Asbestos	35% Cellulose	40% Filler and Binder

Client Sample Number: **D-4**
Client Sample Description: **Paper Debris - Brown**
Client Sample Location: **Laundry Crawlspace**
Sample Comments:
Lab Sample Number: **16-00100.0004**
Checked If Sample Not Analyzed ☐

Off-white and tan fibrous papery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
3% Chrysotile Asbestos	92% Cellulose	5% Filler and Binder

(Sample results continued on next page.)

Sampled by: Bob Brownell 1/25/2016
Received by: Regina Mirabal 1/27/2016
Analyzed by: Cherie Zeledon 2/1/2016

Rachel Melgoza

Reviewed 2/2/2016 by: Rachel Melgoza

NORTHERN INDUSTRIAL HYGIENE, INC.
Billings, MT • Helena, MT • Seattle, WA

215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-
Project Location: *Old Livingston Hospital*

NIH Batch Number: **16-00100**
Client Job Number: **999-3019**
Turn Around Time: **5 Day**
Samples Analyzed: **6**

Client Sample Number: **D-5** Lab Sample Number: **16-00100.0005**
Client Sample Description: **Paper Debris - Brown/White**
Client Sample Location: **Dining Area Crawlspace**
Sample Comments: **Unable to determine layer order** Checked If Sample Not Analyzed ☐

Layer 1 **White fibrous papery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
45% Chrysotile Asbestos	15% Cellulose	40% Filler and Binder

Layer 2 **Off-white and tan fibrous papery material**

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
2% Chrysotile Asbestos	92% Cellulose	6% Filler and Binder

Client Sample Number: **D-6** Lab Sample Number: **16-00100.0006**
Client Sample Description: **Mag. Debris**
Client Sample Location: **Dining Area Crawlspace**
Sample Comments: Checked If Sample Not Analyzed ☐

Gray compressed grainy, gritty material with light gray compressed fibrous powdery material

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
5% Amosite Asbestos	5% Cellulose	5% Aggregate
35% Chrysotile Asbestos		30% Filler and Binder
		20% Fine Grains

Comments: **Materials distinguishable but inseparable**

Sampled by: Bob Brownell **1/25/2016**
Received by: Regina Mirabal **1/27/2016**
Analyzed by: Cherie Zeledon **2/1/2016**

Rachel Melgoza

Reviewed 2/2/2016 by: Rachel Melgoza

Chain of Custody

NVLAP Lab Code 200511-0

Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101
Office Phone: (406) 245-7766
Cell Phone: (406) 647-5275
Email: bbrownell@bridgeband.com
Inspector/Contact: Bob Brownell

NIH Lab Batch ID:	16-00100
Project Name:	Old Livingston Hospital
Project Number:	999-3019
Date Samples Taken:	1/25/16
Type of Analysis:	PLM

Turnaround Time Requested
2 Hour:
Same Day:
24 Hour:
48 Hour:
5 Day: X
10 Day:

For Lab Use Only
Sample(s) Size: ✓ Accepted ___ Rejected
Non-Conformance Memo: ___ Yes ✓ No
Package Condition: ✓ Good ___ Damaged ___ Severe Damage

Page ____ of ____

NIH LAB ID	SAMPLE #	SAMPLE DESCRIPTION	SAMPLE LOCATION
1	D-1	Paper Debris (white)	East Crawlspace
2	D-2	Hard Fitting Debris (White)	East Crawlspace
3	D-3	Paper Debris (white)	Laundry Crawlspace
4	D-4	Paper Debris (brown)	Laundry Crawlspace
5	D-5	Paper Debris (brown + white)	Dining Area Crawlspace
6	D-6	Mag. Debris	Dining Area Crawlspace

Special Instructions: Analyze Group Method - Stop at First Positive Yes (No)

Number of samples shipped this page: 6
Total number of samples shipped: 6

Relinquished By:	Robert H Brownell	Date: 1/26/16	Time: 11:00	Firm: NIH	
Received By:	[illegible]	Date: 1/27/16	Time: 10:05	Firm: NIH Bulk	
Analyzed By:	Cheche Zoledon	Date: 2/1/16	Time: 1505	Firm: NIH Bulk Lab	

Revised 01/20/15 RIM

APPENDIX B

ASBESTOS SAMPLE COLLECTION REQUIREMENTS AND MATERIAL CATEGORY DESCRIPTIONS

SAMPLE COLLECTION REQUIREMENTS

Friable Surfacing Material

1) At least three bulk samples from each homogeneous material that is 1,000 square feet or less.
2) At least five bulk samples from each homogeneous material that is greater than 1,000 square feet but less than or equal to 5,000 square feet.
3) At least seven bulk samples from each homogeneous material that is greater than 5,000 square feet.

Thermal System Insulation

1) In a randomly distributed manner, at least three bulk samples from each homogeneous material of thermal system insulation that is not assumed to contain asbestos.
2) At least one bulk sample from each homogeneous material of patched thermal system insulation that was not assumed to be asbestos-containing material (ACBM).
3) In a manner sufficient to determine whether the material was ACBM or not ACBM, (generally three samples), bulk samples from each insulated mechanical system that was not assumed to be ACBM where cement or plaster was used on fittings such as tees, elbows, or valves.
4) Bulk samples were not collected from any homogeneous material where the inspector determined that the thermal system insulation is fiberglass, foam glass, rubber, or other non-asbestos-containing building material.

Miscellaneous Materials

1) If any other friable suspect homogeneous material was not assumed to be ACBM, three bulk samples were collected from each suspect material as established in the Administrative Rules of Montana (ARM 17.74.354), area of homogeneous friable miscellaneous material that was not assumed to be ACBM.

Non-friable suspected ACBM

1) If any non-friable suspect homogeneous ACBM was not assumed to be ACBM, three bulk samples were collected from each suspect materials as established in the Administrative Rules of Montana (ARM 17.74.354).

AHERA AND NESHAP CATEGORIES

Following receipt of the laboratory analysis, homogeneous ACBM were identified and the quantities determined. The materials were then categorized using NESHAP criteria and a general recommended response action was determined for each ACBM.

AHERA Categories

Category 1: Damaged or significantly damaged thermal system insulation ACM.
Category 2: Damaged friable surfacing ACM.
Category 3: Significantly damaged friable surfacing ACM.
Category 4: Damaged or significantly damaged friable miscellaneous ACM.
Category 5: ACBM with potential for damage.
Category 6: ACBM with potential for significant damage.
Category 7: Remaining friable ACBM or friable suspected ACBM.

NESHAP Categories

Category I is non-friable asbestos-containing materials including packings, gaskets, resilient floor covering and asphalt roofing products containing more than 1 percent asbestos. This category also includes pliable asbestos-containing sealants and mastics.

Category II is non-friable ACBM, excluding Category I non-friable ACBM, containing more than one percent asbestos. This category includes Transite ® (cement asbestos) products.

Regulated Asbestos-Containing Materials (RACM) are friable materials, Category I non-friable materials that will or may be subjected to sanding, grinding, cutting, or abrading and Category II non-friable materials that have a high probability of becoming or have become crumbled, pulverized, or reduced to powder by forces expected to act on the material in the course of demolition or renovation operations.

General Recommended Response Actions

Removal:	remove noted damaged ACBM;
Repair:	repair noted damaged ACBM;
Encapsulate:	encapsulate ACBM with a penetrating or bridging encapsulate;
Enclosure:	enclose ACBM by construction an air tight barrier;
O&M:	include material in a formal operations and maintenance program and maintain ACBM in a non-friable condition.

APPENDIX C

INSPECTOR ASBESTOS TRAINING CERTIFICATES

KEVIN B OLIVER

has met the requirements of Montana Administrative Rule 17.74.362 and/or 17.74.363 for accreditation in the following asbestos occupation(s) through the specified expiration date(s).

[illegible]A-1368

Asbestos Inspector	01/07/2017
Management Planner	01/07/2017
Project Contractor/Supervisor	01/05/2017
Project Designer	01/06/2017

MT DEQ Asbestos Control Program

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has met the requirements of Montana Administrative Rule 17.74.362 and/or 17.74.363 for accreditation in the following asbestos occupation(s) through the specified expiration date(s).

[redacted]

Asbestos Inspector	10/14/2016
Project Contractor/Supervisor	11/13/2016

MT DEQ Asbestos Control Program

PHASE II ENVIRONMENTAL SITE ASSESSMENT
FOR
LIVINGSTON MEMORIAL HOSPITAL
504 SOUTH 13TH STREET
LIVINGSTON, PARK COUNTY, MONTANA

Prepared for:

U.S. ENVIRONMENTAL PROTECTION AGENCY
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U.S. EPA Work Assignment Manager	Stephanie Shen

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LIST OF ACRONYMS

ACM	asbestos-containing material
AHERA	Asbestos Hazard Emergency Response Act
ASTM	ASTM International
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
cm^2	square centimeter
CO	Colorado
COC	contaminant of concern
CY	cubic yards
DEQ	Department of Environmental Quality
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
HA	homogeneous area
HUD	United States Department of Housing and Urban Development
IEUBK	Integrated Exposure Uptake Biokinetic
LBP	lead-based paint
LF	linear feet
mg/cm^2	milligrams per square centimeter
mg/kg	milligrams per kilogram
MT	Montana
O&M	Operations and Maintenance
NIH	Northern Industrial Hygiene
PCB	polychlorinated biphenyl
P.E.	Professional Engineer
PLM	Polarized Light Microscopy
QA	Quality Assurance
QC	Quality Control
RACM	regulated asbestos-containing material
RSL	Regional Screening Level
SAP	Sampling and Analysis Plan
sq. ft.	square feet
START	Superfund Technical Assessment and Response Team
SOO	Statement of Objectives
TBA	Targeted Brownfields Assessment
TCLP	Toxicity Characteristic Leaching Procedure
TDD	Technical Direction Document
TEM	Transmission Electron Microscopy
TSI	Thermal System Insulation
WESTON	Weston Solutions, Inc.
XRF	X-ray fluorescence

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SUMMARY

The United States Environmental Protection Agency (EPA) tasked the Weston Solutions, Inc. (WESTON) Superfund Technical Assessment and Response Team (START) to assist the EPA in conducting a Phase II Environmental Site Assessment (ESA) at the Livingston Memorial Hospital building located at 504 South 13th Street in Livingston, Montana (MT) (Site).

SCOPE OF WORK

This Phase II ESA was conducted in accordance with Technical Direction Document (TDD) 0003/1802-06 and ASTM International (ASTM) E1903-11 – Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process. The purpose of a Phase II ESA is to achieve the objectives set forth in the Statement of Objectives (SOO) developed by the EPA, user(s), and the Phase II Assessor. Goals for this Phase II ESA were to acquire and evaluate sufficient information to determine the location and concentration of potential environmental contamination at the Site, if present. The specific SOO for this Phase II ESA were as follows:

- To further refine the extent of asbestos-containing material (ACM) identified in the previous asbestos inspection, to address data gaps, and to investigate the potential presence of other environmental contamination;
- Conduct dust wipe sampling to evaluate the potential migration of known asbestos fibers from the crawlspace areas;
- Assess and evaluate on-site buildings for lead-based paint (LBP);
- Assess and evaluate potential lead impacts to surface soils at the Site, if exterior LBP was identified on the buildings and bare soils were present beneath the LBP;
- Determine extent of lead-lined construction materials;
- Conduct visual inspections of on-site buildings to determine presence/absence of Polychlorinated biphenyl (PCB)-containing equipment, mercury-containing equipment, and mold;
- Develop sufficient information to render a reasonable professional opinion whether hazardous substances either are or are not present at the Site with respect to the potential concerns assessed. If present, include concentrations of hazardous substances based on field screening and/or laboratory analysis of samples;
- Gather and provide sufficient data to assist the TBA recipient in making informed decisions with regard to the future use of the property; and
- Obtain sufficient data to support conceptual remediation cost estimating, if necessary.

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SITE BACKGROUND

The Livingston Memorial Hospital is an approximately 40,000 square feet (sq. ft.) single-story brick building with a basement which was constructed in 1950, with additions in 1987 and 1989 (Figure 2). The building was utilized solely as a hospital until being vacated in 2015. The property also features two ancillary buildings, Home Oxygen Building (built in 1960), Mental Health Building (built in 2004), and a utility shed (construction date unknown). Results of a previous 2016 building assessment performed by Northern Industrial Hygiene (NIH) identified ACM in the hospital building, though a complete inspection of the building with estimated extents of hazardous building materials present was not conducted at the time. Renovation for residential housing is the intended future use of the building; however, redevelopment cannot proceed until additional assessment is performed.

SUMMARY OF RESULTS AND CONCLUSIONS

Phase II ESA fieldwork was conducted on April 17th and 18th, 2018. Results of the Phase II ESA have confirmed the presence of contaminants of concern (COCs) at the Site. The following is a summary of the results and conclusions regarding COCs and associated media identified by START at the Site:

Asbestos-Containing Material

Bulk Building Material Samples: Of the twenty-seven (27) bulk samples submitted for laboratory analysis by START, two (2) samples were determined to be ACM. In addition to the ACM identified by START, the thermal systems insulation (TSI) debris mixed with soil in the crawlspaces, floor tiles and mastics, linoleum, pipe insulation and fittings, window caulking and glazing, and black sink undercoating were identified as ACM in the previous NIH asbestos survey of the building (NIH, 2016). START did not re-sample these materials and considers them to be ACM. ACM is considered a COC in relation to the Site. The following table indicates estimated extent and location of ACM identified by both START and NIH to be present in the building.

ACM	Location	Estimated Volume / Extent
ACM Identified by START		
Incinerator Transite Flue	Boiler Room	500 sq. ft.
Pipe Gasket	Boiler Room	5 Gaskets
ACM Identified by NIH		
TSI Debris and Soil	Crawlspaces	790 CY*
Floor Tile and Mastic	Throughout	10,700 sq. ft.
Linoleum	Basement	60 sq. ft.

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ACM	Location	Estimated Volume / Extent
Pipe Fittings	Throughout	100 fittings
Pipe Insulation	Throughout	1,000 LF
Roof Drain Bowls	Main Floor	7 bowls
Sink Undercoating	Basement	2 Sinks (observed by START)
Window Caulk	Exterior	1,330 LF
Window Glazing	Exterior	460 LF

Notes:
* = Estimated volume determined by START assuming asbestos material is 1-2 ft thick
CY = cubic yards
LF = linear feet
sq. ft. = square feet

Dust Wipe Samples: Results for all 10 dust wipe samples collected had asbestos present. Asbestos dust was identified on flooring surfaces within the basement and main level of the hospital building. Additional wipe samples, microvac samples, and/or air samples are needed during the next phase of assessment and/or remediation of the Site. The following table summarizes sample collection locations and asbestos minerals present.

Sample ID	Location	Asbestos Minerals Present
Basement		
LMH-WP01	Near door to east wing crawlspace	Chrysotile
LMH-WP02	Near door to west crawlspace	Chrysotile
LMH-WP03	Main hallway	Chrysotile and Amosite
LMH-WP04	Boiler room	Chrysotile
LMH-WP05	Large room in northern addition	Chrysotile
Main Level		
LMH-WP06	Room in the south wing	Chrysotile
LMH-WP07	Hallway of east wing	Chrysotile
LMH-WP08	Hallway of southwest wing	Chrysotile and Amosite
LMH-WP09	Room in the west wing	Chrysotile

Note: Asbestos dust wipe samples were collected for informational purposes only (presence/absence) to assist with determining if asbestos fibers were present on building surfaces. These results are not conclusive and are not valid for determining future building use and/or

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subsequent assessment/remediation activities. Additional sampling is needed to determine the actual concentration and extent of asbestos dust in the building.

Lead-Based Paint

Limited XRF Survey: Of the 902 XRF readings taken from the buildings, 86 readings were positive for LBP contamination (≥1 mg/cm^2). Elevated lead concentrations are present throughout the basement and main floor of the hospital building. LBP was also identified on the exterior trim of the hospital building. LBP is considered a COC in relation to the Site. The following table lists the location, current surface paint color, and estimated extent of LBP present at the Site.

Location	Current Surface Paint Color	Estimated Extent
Basement - Hospital		
Ceiling	Green	525 sq. ft.
	White	1,000 sq. ft.
Door	Gray	1 Door
Floor	Gray	200 sq. ft.
Wall	Blue	275 sq. ft.
	Brown	120 sq. ft.
	Gray	1,000 sq. ft.
	Green	150 sq. ft.
	Light Blue	275 sq. ft.
	White	4,000 sq. ft.
Main Level - Hospital		
Ceiling	White	300 sq. ft.
Floor	Gray	100 sq. ft.
Wall	Cream	250 sq. ft.
	Green	450 sq. ft.
	Light Blue	325 sq. ft.
	Red	50 sq. ft.
	White	8,000 sq. ft.
	Yellow	225 sq. ft.
Exterior - Hospital		
Trim	Yellow	1,000 LF

Notes:
LF = linear feet

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sq. ft. = square feet

Lead-in-Soils: While there were positive readings on the exterior of the hospital building, bare soils and chipping paint were only present around the ends of the two southwest wings. One composite sample and duplicate were collected to evaluate potential lead impacts to surface soils. Based on the laboratory results, lead concentrations did not exceed the MT Department of Environmental Quality (DEQ) Integrated Exposure Uptake Biokinetic (IEUBK) model value (153 milligrams per kilogram [mg/kg]) in either sample. Lead impacts to surface soils are not considered a COC in relation to the hospital.

PCBs, Mercury, and Mold

A summary of the observations regarding the visual inspections conducted are presented below:

- All potential PCBs ballasts were removed from the buildings; however, approximately ½-gallon of transformer oil assumed to contain PCBs was found in the basement of the hospital. PCBs are considered COCs in relation to the Site.
- Seven (7) mercury thermostat switches were observed in the buildings. Mercury is considered a COC in relation to the Site.
- No mold was observed in the buildings. Mold is not considered a COC in relation to the Site.

RECOMMENDATIONS

Based on the results of the Phase II ESA conducted, START recommends the following:

- START recommends contracting an accredited asbestos remediation company to further assess asbestos dust at the Site and determine appropriate remedial actions to address ACM during the cleanup phase of redevelopment (e.g., abatement, encapsulation, cleaning of all surfaces, etc.). The presence of asbestos dust indicates building surfaces and the surface of items stored in the building may need to be cleaned/decontaminated by an asbestos remediation contractor prior to reuse or disposal; otherwise, they may need to be disposed of as asbestos waste. ACM remediation is recommended prior to any renovation or demolition activities at the Site in order to permanently mitigate exposure risk.
- However, pending final redevelopment/reuse plans for the Site and considering the type and condition of ACM identified, development of an ACM Operations and Maintenance (O&M) Plan to monitor the condition of ACM identified at the Site, removal of select ACM (e.g., friable pipe insulation), and/or a combination of these remediation methods could be implemented. START recommends contracting an accredited asbestos remediation company to create and implement an ACM O&M Plan to monitor the condition of ACM identified.

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- START recommends contracting an accredited lead remediation company to determine appropriate remedial actions needed to address the LBP at the Site during the cleanup phase of redevelopment (e.g., encapsulation, chemical stripping, removal, etc.). Dust control methods should be implemented for the debris. It is recommended that all work be performed by an EPA Lead-Safe certified firm. If construction materials are to be removed, it is recommended that the construction debris disposal facility be contacted to determine if Toxicity Characteristic Leaching Procedure (TCLP) samples will be required.
- Lead sheet metal found in the walls, lead-lined doors, and leaded glass should be properly disposed of or recycled during renovation activities.
- Potential PCB-containing oil and mercury ampules should be removed and properly disposed of prior to demolition or renovation.

This summary is intended to be a general description of the scope of work, results, conclusions, and recommendations identified based on the Phase II ESA of the Site; however, this section is not intended to be a "stand alone" document or to include the basis of all conclusions presented. The report should be read and used in its entirety. Information included in this section is subject to the scope of services and limitations noted in the original TDD and in this complete report.

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1.0 INTRODUCTION

1.1 SCOPE OF WORK AND PURPOSE

The Weston Solutions, Inc. (WESTON) Superfund Technical Assessment and Response Team (START) conducted a Phase II Environmental Site Assessment (ESA) at the Livingston Memorial Hospital located at 504 South 13th Street in Livingston, Montana (MT) (Site - Figure 1). The ESA was conducted in accordance with Technical Direction Document (TDD) 0003/1802-06 and ASTM International (ASTM) E1903-11 – Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process. The purpose of a Phase II ESA is to acquire and evaluate information sufficient to achieve the objectives set forth in the Statement of Objectives (SOO) developed by the user(s) and the Phase II Assessor. The scope of work for a Phase II ESA is related to the activities agreed upon to meet the objectives of the investigation as defined in the SOO that are subject to ongoing evaluation and refinement as the assessment progresses. The SOO developed for this Site is presented in Section 1.2.

This Phase II ESA report contains the results of the data collection activities and associated quality assurance (QA)/quality control (QC) measures conducted specific to the Site. Information used to conduct this Phase II ESA was based upon reasonably ascertainable, visually and physically observable conditions, and included testing or sampling of materials. The structure of this report is based on the ASTM E1903-11 standard.

1.2 STATEMENT OF OBJECTIVES

The objectives were developed by Homeword, Inc. (User), START (Phase II Assessor), and the United States Environmental Protection Agency (EPA). The objectives were developed to obtain sound, scientifically valid data concerning actual property conditions at the Site with respect to the presence or the likely presence of target analytes/substances including, but not limited to, those within the scope of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The SOO for the Site were determined during the project-scoping meeting held on February 14th, 2018. The Phase II ESA objectives determined for the Site were as follows:

- To further refine the extent of asbestos-containing material (ACM) identified in the previous asbestos inspection, to address data gaps, and to investigate the potential presence of other environmental contamination;
- Conduct dust wipe sampling to evaluate the potential migration of known asbestos fibers from the crawlspace areas;
- Assess and evaluate on-site buildings for lead-based paint (LBP);
- Assess and evaluate potential lead impacts to surface soils at the Site, if exterior LBP was identified on the buildings and bare soils were present beneath the LBP;
- Determine extent of lead-lined construction materials;

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- Conduct visual inspections of on-site buildings to determine presence/absence of Polychlorinated biphenyl (PCB)-containing equipment, mercury-containing equipment, and mold;
- Develop sufficient information to render a reasonable professional opinion whether hazardous substances either are or are not present at the Site with respect to the potential concerns assessed. If present, include concentrations of hazardous substances based on field screening and/or laboratory analysis of samples;
- Gather and provide sufficient data to assist the TBA recipient in making informed decisions with regard to the future use of the property; and
- Obtain sufficient data to support conceptual remediation cost estimating, if necessary.

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2.0 SUMMARY OF BACKGROUND INFORMATION

2.1 PROPERTY DESCRIPTION, LOCATION, AND HISTORY

The Site is approximately 2.571 acres and is located at 504 South 13th Street in Livingston, MT at 45.648890°N latitude and -110.569502°W longitude. There are currently three buildings and a utility shed at the Site (Figure 2) as described below:

- Livingston Memorial Hospital: One-story building, with a basement, totaling approximately 40,000 square feet (sq. ft.). The main portion of the hospital was built in 1950, with additions in 1987 and 1989. Renovations were performed in 2013/2014 and a partial demolition of select materials was done in 2015-2017.
- Shed: One-story utility shed with a footprint of approximately 172 sq. ft. The date of construction is unknown.
- Home Oxygen Building: One-story office building, constructed in 1960, with a footprint of approximately 800 sq. ft.
- Mental Health Building: Single-story office building, constructed in 2004, with a footprint of approximately 4,000 sq. ft. Due to the age of construction, this building was not evaluated for presence of hazardous building materials.

Montana Homeownership Network Inc. owns the property and is currently holding the property until Homeword, Inc. secures funding for the project. In March 2016, a previous inspection performed by Northern Industrial Hygiene (NIH) identified the presence of ACM in the hospital (NIH, 2016). However, a complete inspection of the building with estimated extents of hazardous building materials present was not conducted at the time. In addition, ACM, LBP, and other environmental hazards that may be present based on the ages of the building, were not included in the previous building inspection. Homeword, Inc. is planning on redeveloping the former hospital into a multi-family housing complex; however, redevelopment cannot proceed until additional assessment is performed.

2.2 PREVIOUS ENVIRONMENTAL REPORTS AND RECORDS

Previous environmental reports and/or records, if available, were obtained by START from various sources, including local agencies, and reviewed for information relating to the Site. A summary of records obtained is provided in the following table.

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Document: Phase I ESA for Livingston Memorial Hospital 504 South 13th Street Livingston, Park County, Montana (WESTON, 2018a) **Prepared for:** EPA and Homeword, Inc. **Prepared by:** START **Date:** April 2018 **Report Source:** START	**Document Summary:** This Phase I ESA lists the known presence of friable ACM in the crawlspace soils as a recognized environmental condition at the subject property. Other non-scope considerations include other ACM, LBP, lead-lined construction materials, and mercury thermostat switches. **Information Relating to the Subject Property:** Historic records indicate that the subject property has been utilized as a hospital since 1955; however, the current structure was built in 1950, with additions in 1987 and 1989. An interview with Mr. Gene Struthers revealed that PCB-containing light ballasts were removed in 2002.
Document: TBA Application **Prepared for:** EPA **Prepared by:** Homeword, Inc. **Date:** Unknown **Report Source:** EPA	**Document Summary:** The application gives a brief summary of subject property background information and environmental conditions at the subject property (including potential contaminants). The application also provides contact names(s) and phone numbers for stakeholders, owner and redevelopers. **Information Relating to the Subject Property:** The main hospital building was constructed in 1950, opened in 1955, with additions in 1987 and 1989, and was utilized as a hospital until 2015. A partial demolition of the building systems was performed and the current owner purchased the building in 2017 to hold until the TBA recipient secures funding for the project. Proposed redevelopment of the subject property will transform the hospital into a multi-family affordable housing complex. A Phase I ESA and asbestos inspection have been performed for the hospital.
Document: NESHAP Asbestos Renovation Survey, Former Livingston Hospital, 504 South 13th Street Livingston, Montana, Project No. 999-3019 (NIH, 2016) **Prepared for:** A&E, LLC **Prepared by:** NIH **Date:** March 7, 2016 **Report Source:** TBA Recipient	**Document Summary:** The hospital portion of the subject property inspected in this report identified 27 building materials as ACM and assumed two other materials as ACM. ACM identified included crawlspace debris, floor tiles, linoleum, mastics, pipe insulation, pipe fittings, roof drain bowl insulation, sink undercoating, transite wallboard, and window caulk and glazing. The roof and MRI unit were not inspected. **Information Relating to the Subject Property:** Inspections were only conducted on the hospital building portion of the subject property. The identified ACM in building materials is considered a non-scope consideration in relation to the subject property.

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3.0 DESCRIPTION OF WORK PERFORMED AND RATIONALE

This section summarizes the work performed and rationale for the work conducted to meet the SOO developed for the investigation as documented in the approved Sampling and Analysis Plan (SAP) for the Site (WESTON, 2018b). Deviations from the approved SAP for this Phase II ESA are presented in Section 3.4.

Based upon the SOO developed for the Site, a building inspection was conducted as part of this Phase II ESA. The assessment included visual inspections, field screening, and/or sample collection for laboratory analysis. Details of the individual media investigations along with rationale are presented below. Photographs of field activities are included in the Photograph Log presented in Appendix A. The Phase II fieldwork was conducted on April 17th and 18th, 2018.

3.1 ASBESTOS-CONTAINING MATERIAL SURVEY

3.1.1 Bulk Building Material Samples

This Phase II ESA included a limited ACM survey with the collection of bulk asbestos samples to supplement the previous asbestos inspection (NIH, 2016) in order to determine the location and extent of ACM. The survey was conducted by Montana Accredited Asbestos Building Inspector: Mr. Michael Cherny. Visual inspections were conducted on areas of the structure where an individual performing demolition or renovation operations may encounter regulated asbestos-containing material (RACM). Sample locations and the total number of samples were based on Asbestos Hazard Emergency Response Act (AHERA) standards (EPA, 1985) and/or the best professional judgment of the inspector. Each potential RACM location was touched to determine if it was friable. Though previous ACM survey results were taken into consideration, bulk samples were collected of suspect friable and non-friable RACM and submitted to an asbestos-certified laboratory for analysis.

3.1.2 Dust Wipe Samples

Due to friable asbestos pipe insulation identified in the crawlspace (NIH, 2016), this Phase II ESA included the collection of dust wipe samples to help aid in determining if asbestos fibers have migrated from the crawlspace areas and deposited as dust in other areas of the building. Sample locations were based on the best professional judgment of the inspector. Dust wipe samples collected were submitted to an asbestos-certified laboratory for analysis.

3.2 LEAD-BASED PAINT SURVEY

3.2.1 Limited XRF Survey

Due to the age of the building at the Site, this Phase II ESA involved a LBP survey by EPA Certified LBP Inspector: Mr. Elliott Petri. To conduct the LBP survey, an X-ray fluorescence (XRF) instrument was used on painted surface locations to determine if materials were “positive”

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for lead (≥1 milligram per square centimeter [mg/cm^2]). Visual inspections were conducted on interior and exterior areas of the building to identify painted surfaces and XRF readings were collected based upon the best professional judgment of the inspector.

3.2.2 Lead-in-Soil

Due to the potential for lead contamination in the surface soils adjacent to the exterior walls of the buildings, discrete and biased surface soil samples were collected at locations where potential lead contamination would most likely be found. Soil samples were only collected in areas with positive LBP readings on the exterior, bare soils next to the location of the reading, and chipping paint. Five-point composite samples were collected at the dripline to characterize the lead contamination at the Site. Composite samples were sieved using a No. 60 mesh (250 micron) prior to submittal to the laboratory.

3.3 VISUAL INSPECTIONS

Visual inspections were conducted to identify the presence or absence of lead-lined materials, PCB-containing equipment (e.g., fluorescent light ballasts, electrical transformers, etc.), mercury-containing equipment (e.g., thermostat switches), and mold. The extent of visual inspections was limited to areas visually observable, easily accessible, and deemed safe to enter by the field team. Quantity and location information was documented where possible, but no samples were collected.

3.4 DEVIATIONS FROM THE SAMPLING AND ANALYSIS PLAN

Due to the ongoing evaluation and refinement of the SOO, changes can occur to the approved SAP based upon site conditions encountered. No deviations from the approved SAP were identified during this Phase II ESA.

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4.0 DESCRIPTION OF METHODS USED

4.1 ASBESTOS-CONTAINING MATERIAL

4.1.1 Bulk Building Material Samples

Asbestos Bulk Sampling

Personnel performing the sampling wore personal protective equipment appropriate to the hazard(s) presented and included gloves, Tyvek, booties, hard hats, and/or high-efficiency particulate air respiratory protection. Asbestos bulk samples were randomly collected using the grid system described in the EPA publication "*Asbestos in Buildings – Simplified Sampling Scheme for Friable Surfacing Materials"* (EPA, 1985). The following general sampling guidelines were followed during the inspection, as applicable:

- In areas where homogeneous suspected RACM (surfacing) was less than 1,000 square feet (sq. ft.), three randomly collected bulk samples were collected from each area;
- In areas where homogeneous suspected RACM (surfacing) was at least 1,000 sq. ft. but less than 5,000 sq. ft., five randomly collected bulk samples were collected from each area;
- In areas where homogeneous suspect RACM (surfacing) was at least 5,000 sq. ft., seven randomly selected bulk samples were collected from each area;
- At least one sample was taken from pipe fittings;
- Three samples were taken from thermal systems insulation (TSI); and
- For miscellaneous materials, a minimum of one bulk sample was collected for each type.

Quality Assurance (QA)/Quality Control (QC) Activities

The following QA/QC activities were conducted as part of this investigation:

- Field Duplicate Samples – Field duplicate samples were collected at the frequency of one per 20 bulk samples. The following table indicates the original sample and duplicate sample collected.

Original Sample	QA/QC Duplicate Sample
HOB-DW01-06	HOB-DW01-07

Based on the laboratory results, no discrepancies were reported and all results are considered acceptable. Results for the original and QA/QC sample are presented in Table 2.

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Laboratory Analytical Methods

Samples collected were sent to Reservoirs Environmental Inc. in Denver, Colorado (CO) for polarized light microscopy (PLM) analysis by Method EPA 600/R-93/116 to determine a visual estimation of asbestos content and, if applicable, Method EPA 600/R-93/116 (400 Point Count).

4.1.2 Dust Wipe Samples

Asbestos Dust Wipe Sampling

Dust wipe samples were collected using a pre-moistened ghost wipe within a 100-square centimeter (cm^2) area. The sample was collected: first, by using a side to side wiping technique. After the first pass, the wipe was rotated 180° and the surface was wiped in the reverse direction. Then, the wipe was folded and a top to bottom wiping method was used. The wipe was then folded once more and the perimeter was wiped with a clean side. Finally, the wipe was folded again and placed into the provided sample container.

QA/QC Activities

The following QA/QC activities were conducted as part of this investigation:

- One media blank wipe (LMH-WP00) was submitted to the laboratory. No asbestos minerals were detected on the blank sample.

Laboratory Analytical Methods

Samples collected were sent to Reservoirs Environmental Inc. in Denver, CO for Transmission Electron Microscopy (TEM) analysis by Method ASTM D-6480 (Wipe) TEM to determine the "Presence/Absence" of asbestos fibers.

4.2 LEAD-BASED PAINT

4.2.1 Limited XRF Survey

XRF Readings

XRF in-situ readings were collected using an Innov-X Alpha Series™ handheld XRF instrument to analyze painted and coated surfaces (interior and exterior) for lead during this Phase II ESA. XRF readings of walls, windows, and other painted surfaces in each room equivalent were collected. Room equivalents include painted or coated surfaces that are not considered separate rooms such as hallways and closets. A representative number of sample readings were collected from a subset of rooms considered by the certified LBP inspector to be of like coated surfaces.

In general, locations where the paint appeared to be thickest were selected for XRF analysis. Locations where paint was worn away or scraped off were avoided. Areas over pipes, electrical surfaces, nails, and other possible interferences were also avoided. The XRF probe faceplate was allowed to lie flat against the surface of the test location to obtain a quality reading.

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QA/QC Activities

The following QA/QC activities were conducted as part of this investigation:

- XRF Standardization Readings – XRF standardization readings were collected prior to use, every four hours during use (as applicable), and following use to verify accuracy.

No other QA/QC activities or sample types were required based upon the assessment techniques and sample collection methods. Based on the results of the standardization readings, all results reported are considered acceptable. XRF standardization readings are presented in Table 5.

Laboratory Analytical Methods

Due to no "inconclusive" readings by the XRF instrument, paint chip samples were not collected for laboratory analysis.

4.2.2 Lead-in-Soil

Sample Collection

A thorough walkthrough and visual inspection were conducted around the perimeter of the building to locate areas where contaminants may be present in the surface soils. Lead in soil samples were collected as 5-point composite samples from 0 - 1 inch with aliquots from several sides of the building based upon XRF screening indicating LBP and visual screening (if paint chips were visible in soil or paint was chipping). Samples were collected from the drip line of the building (12 in. – 30 in. from the exterior). Samples were placed into sealable baggies and homogenized. Once composited the sample was field screened with the XRF. None of the XRF screening of the composite soil samples collected from 0 - 1 in. was near or exceeding the MT Department of Environmental Quality (DEQ) Integrated Exposure Uptake Biokinetic (IEUBK) model value of 153 mg/kg. Therefore, no additional in-situ soil XRF screening was conducted. Surface soils were collected using a disposable plastic scoop and transferred into laboratory-supplied containers. Disposable gloves were used during sample collection and preparation procedures. The soil samples were labeled and stored until shipment for laboratory analysis accompanied by chain-of-custody documentation.

QA/QC Samples

The following QA/QC activities were conducted as part of this investigation:

- One duplicate sample, LMH-SO91-0001, was submitted in conjunction with the parent sample. Based on the laboratory results, no discrepancies were reported and all results are considered acceptable. Results for the original and QA/QC sample are presented in Table 2.

Laboratory Analytical Methods

Samples collected were delivered to Reservoirs in Denver, Colorado for lead analysis by EPA Method SW846 3050B / AA (7420).

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4.3 VISUAL INSPECTIONS

Lead-Lined Materials, PCBs, Mercury, and Mold

Visual inspections were conducted for presence/non-presence of lead-lined materials, mercury thermostat switches, PCB ballasts, and mold. Suspect hazards encountered, if any, were documented in field notes and/or photographed.

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5.0 PRESENTATION OF INFORMATION AND DATA ACQUIRED

5.1 ASBESTOS-CONTAINING MATERIAL

5.1.1 Bulk Building Material Samples

A total of 27 bulk samples were collected and submitted for PLM analysis. Of the samples collected, the following number of samples were collected of each bulk material.

Building	Bulk Material	Number of Samples Collected
Shed	Drywall	3
	Roofing Material	1
Home Oxygen Building	Cove Base	2
	Drywall	7
	Linoleum	2
	Roofing Material	1
Hospital	Cove Base	1
	Duct Tape	1
	Floor Insulation	1
	Fridge Material	1
	Incinerator Transite	1
	Pipe Gasket	2
	Roofing Material	1
	Terrazzo	2
	Wall Felt	1

In addition, the following assumptions and items of note were observed during the ACM survey:

Shed

- When possible, samples were collected from areas of the building material already damaged or disturbed.
- Taped/mudded drywall was present inside the shed.
- No suspect insulation, flooring, cove base, ceiling tiles, window glazing, or caulking were observed.
- The roof was comprised of asphalt shingles with roofing felt.

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Home Oxygen Building

- When possible, samples were collected from areas of the building material already damaged or disturbed.
- Two finished drywall homogeneous areas (HAs) were identified and were sampled independently of each other.
- Two types of linoleum were present in the building, with a concrete subfloor.
- Two types of cove base and mastic were sampled; however, no suspect insulation, ceiling tiles, window glazing, or caulking were observed.
- The roof was comprised of asphalt shingles with roofing felt.

Hospital

- When possible, samples were collected from areas of the building material already damaged or disturbed.
- A mixture of plaster and sheetrock walls were observed throughout the building. In some areas, there were multiple layers of materials on the walls.
- All wall and air handler insulations observed were fiberglass. The inner boiler insulation was also fiberglass. Pipe insulations were a mixture of fiberglass and ACM Air Cell. Mudded fittings previously identified as ACM were also observed.
- The mixture of known asbestos TSI and soil was observed in the crawlspaces. Since the crawlspaces were not entered, the average depth of material is estimated to be approximately 1 – 2 feet thick based on visual inspection of the entrance and personal interviews.
- All ceiling tiles and associated glue dots were previously sampled by NIH and confirmed to be non-ACM.
- Sinks were removed and stored in the basement. Black sink insulation observed on two of the sinks was confirmed to be ACM by NIH and was not re-sampled.
- Ceramic floor tiles were observed in the bathrooms, but are not considered to be suspect and were not sampled.
- Flooring consisted of ACM floor tile, carpet (some with ACM mastics underneath), ACM linoleum, concrete, and terrazzo. A concrete subfloor was present below all flooring types.
- ACM window glazing was primarily observed on the southwest wing and two windows on the northeast side. Most windows had a gray or white ACM caulking present.
- The exterior of the building is brick and different types of bricks were used between all the additions to the original building.

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- The roof was a membrane system and was sampled discretely to not compromise the integrity of the roof.

5.1.2 Dust Wipe Samples

Ten (10) dust wipe samples and one blank were collected and submitted for TEM analysis. The following table indicates the number of samples collected from each area of the building:

Area of Building	Number of Samples
Basement	5
Main Level	5

5.2 LEAD-BASED PAINT

5.2.1 Limited XRF Survey

A total of 902 XRF readings were taken at the Site. The following number of readings were collected from each area of the buildings:

Building	Area of Building	Readings Count
Shed	Exterior	4
Home Oxygen Building	Exterior	23
	Interior	6
Hospital	Basement	224
	Main Level	634
	Exterior	11

In addition, the following assumptions and items of note were observed during the LBP survey:

- Due to the complex painting history and multi-layered wall systems inside the hospital, it is possible that additional LBP is present which could not be assessed using an XRF. Toxicity Characteristic Leaching Procedure TCLP samples are recommended for all demolition debris.
- No LBP was present on the shed or Home Oxygen Building.

5.2.2 Lead-in-Soils

One composite surface soil sample and duplicate were collected from the ends of the two southwest wings of the hospital. The following table presents the sample location information and the laboratory results are summarized in Table 6.

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Location	Soil Sample ID
The Two Southwest Wings	LMH-SO01-0001
	LMH-SO91-0001

5.3 VISUAL INSPECTIONS

The following observations were made during the visual inspections.

Lead-Lined Materials

- Lead sheeting behind the drywall, lead-lined doors, and a leaded glass window were observed in the computerized axial tomography (CAT) scan, X-ray, and/or nuclear medicine rooms in the hospital building.

PCBs, Mercury, and Mold

- Fluorescent light fixtures were observed throughout the buildings; however, all of the ballasts were newer and had stickers indicating they did not contain PCBs. An approximately half full gallon jug of Victor X-ray Corporation transformer oil was discovered in the elevator room of the hospital basement. This was likely used for the X-ray machine, which had been removed, and is assumed to contain PCBs.
- Mercury thermostat switches were observed on the boiler and generator as well as one wall-mounted device in the basement of the hospital. One switch was also present in the Home Oxygen Building.
- No mold was observed in the buildings.

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6.0 EVALUATION AND INTERPRETATION OF INFORMATION, DATA, AND RESULTS

This section summarizes the evaluation and interpretation of field screening data and laboratory results obtained to identify the location and extent of contamination. Benchmarks used for comparison are listed below:

ACM

- **Asbestos-Containing Materials in Schools Rule (40 Code of Federal Regulations [CFR] Part 763, Subpart E) -** ACM is defined as any material containing more than one percent (>1%) asbestos.

LBP

- **U.S. Department of Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (2012 Edition) -** The HUD benchmark for lead-based paint is greater than or equal to 1.0 milligrams per square centimeter (≥1.0 mg/cm^2).

Lead-in-Soil

- **EPA Regional Screening Levels (RSLs) - Generic Tables (November 2017): Target Cancer Risk (TR) = 1E-6 and Target Hazard Quotient (THQ) = 1.0 (EPA, 2017) -** The EPA Residential and Industrial RSLs for lead are 400 milligrams/kilogram (mg/kg) and 800 mg/kg, respectively.
- Though not a current benchmark required for comparison, MT DEQ anticipates the EPA to update the IEUBK model to reflect a 5 µg/dl blood lead level endpoint, which correlates to an associated lead value of 153 mg/kg that is used by the State of MT.

The locations of samples and extent of hazardous building materials exceeding benchmarks are depicted on Figures 3 through 11. Field readings and laboratory results for the samples collected are summarized in Tables 1 through 6. Photographs of the field activities conducted are presented in Appendix A. Copies of the laboratory reports are presented in Appendix B. A copy of the 2016 asbestos survey completed by NIH is provided as Appendix C.

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6.1 ASBESTOS-CONTAINING MATERIAL

6.1.1 Bulk Building Material Samples

Of the twenty-seven (27) bulk samples submitted for laboratory analysis, two (2) samples were reported as "positive" (>1%) for asbestos and were determined to be ACM. The following table indicates the type, condition, and number of samples identified as ACM.

Identified ACM	Condition	Number of ACM Samples
Incinerator Transite Flue	Non-Friable	1
Pipe Gasket	Non-Friable	1

ACM sample collection locations and approximate extent of ACM are presented on Figures 3 - 6. The confirmed ACM sample(s), the asbestos-containing layer(s), and the estimated volume of ACM is presented in Table 1. A list of the samples collected that were reported as non-detect for asbestos is presented in Table 2.

Interpretation of Results

No ACM was identified in the utility shed or the Home Oxygen Building. The ACM discussed in this section is related to the hospital only.

Samples collected by START confirmed the presence of ACM in what is assumed to be flue material, which had recently fallen inside the incinerator, and a pipe gasket found on piping associated with the steam tunnel in the boiler room. In addition to the ACM identified by START, TSI debris mixed with soil in the crawlspaces, floor tiles and mastics, linoleum, pipe insulation and fittings, window caulking and glazing, and black sink undercoating were identified as ACM in the previous asbestos survey of the building (NIH, 2016). START did not re-sample these materials and considers them to be ACM. A summary of the NIH sampling results is provided in Table 3.

The previously assumed refrigerator transite was sampled by START and is not ACM. START was able to observe the TSI debris and soil present in all crawlspace entrances except the one underneath the southernmost hospital wing. Conversations with the maintenance manager, Mr. Gene Struthers, depicted the conditions of that crawlspace. It is assumed that the average depth of asbestos impacted soil is approximately 1 – 2 feet thick. Floor tiles and mastics were still present but some were underneath carpeted areas. An attempt was made to further refine the extents of the TSI; however, it is likely additional TSI exists inside walls and above ceilings that may be encountered once renovation work occurs. It should be assumed all TSI which is not fiberglass and all hard fittings, including roof drain bowls, are ACM. All sinks with ACM undercoating were removed and stockpiled in a room in the basement. ACM is considered a contaminant of concern

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(COC) in relation to the Site. The following table indicates estimated extent and location of ACM identified by both START and NIH to be present in the building.

ACM	Location	Estimated Volume / Extent
ACM Identified by START		
Incinerator Transite Flue	Boiler Room	500 sq. ft.
Pipe Gasket	Boiler Room	5 Gaskets
ACM Identified by NIH		
TSI Debris and Soil	Crawlspaces	790 CY*
Floor Tile and Mastic	Throughout	10,700 sq. ft.
Linoleum	Basement	60 sq. ft.
Pipe Fittings	Throughout	100 fittings
Pipe Insulation	Throughout	1,000 LF
Roof Drain Bowls	Main Floor	7 bowls
Sink Undercoating	Basement	2 Sinks (observed by START)
Window Caulk	Exterior	1,330 LF
Window Glazing	Exterior	460 LF

Notes:
* = Estimated volume determined by START assuming asbestos material is 1-2 ft thick
CY = cubic yards
LF=linear feet
sq. ft. = square feet

6.1.2 Dust Wipe Samples

Results for all ten (10) dust wipe samples collected had asbestos present. The following table summarizes sample collection locations and asbestos minerals present.

Sample ID	Location	Asbestos Minerals Present
Basement		
LMH-WP01	Near door to east wing crawlspace	Chrysotile
LMH-WP02	Near door to west crawlspace	Chrysotile
LMH-WP03	Main hallway	Chrysotile and Amosite
LMH-WP04	Boiler room	Chrysotile
LMH-WP05	Large room in northern addition	Chrysotile

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Sample ID	Location	Asbestos Minerals Present
Main Level		
LMH-WP06	Room in the south wing	Chrysotile
LMH-WP07	Hallway of east wing	Chrysotile
LMH-WP08	Hallway of southwest wing	Chrysotile and Amosite
LMH-WP09	Room in the west wing	Chrysotile

Asbestos dust wipe sample collection locations are presented on Figures 3 - 6. A summary of the analytical results is presented in Table 4.

Interpretation of Results

Asbestos dust was identified on flooring surfaces within the basement and throughout the main level of the hospital building. The source of the asbestos fibers is not definitively known, but when evaluating friable ACM present at the Site, it is possible it is sourced from the TSI debris and soil within the crawlspace. Chrysotile was identified in all ACM but the amosite is associated with mudded fittings, magnesia TSI, and/or roof drain bowls. Since dust wipe samples were analyzed for presence/absence of asbestos only, the total number of asbestos structures present on the wipes is not known. According to ASTM D6480-99 – Standard Test Method for Wipe Sampling of Surfaces, Indirect Preparation, and Analysis for Asbestos Structure Number Concentration by Transmission Electron Microscopy, "there is no direct correlation of asbestos dust to human exposure risk" (ASTM, 1999).

Additional wipe samples, microvac samples, and/or air samples are needed during the next phase of assessment and/or remediation of the Site. The presence of asbestos dust indicates building surfaces may need to be cleaned by an asbestos remediation contractor prior to reuse or demolition. In addition, samples from the surface of items stored in the building may be needed prior to removal as they could need to be decontaminated prior to disposal or be disposed of as asbestos waste.

Note: Asbestos dust wipe samples were collected for informational purposes only (presence/absence) to assist with determining if asbestos fibers were present on building surfaces. These results are not conclusive and are not valid for determining future building use and/or subsequent assessment/remediation activities. Additional sampling is needed to determine the actual concentration and extent of asbestos dust in the building.

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6.2 LEAD-BASED PAINT

6.2.1 Limited XRF Survey

Of the 902 XRF readings taken from the buildings, 86 readings were positive for LBP contamination (≥1 mg/cm^2). The following table indicates the location, current surface paint color, and area concentration for LBP identified at the Site.

Location (# of Positive Readings)	Current Surface Paint Color	Area Concentration of LBP (± Error)
Basement - Hospital		
Ceiling (8)	Green	1 mg/cm^2 (± 0.05)
	White	1 mg/cm^2 (± 0.03 to 0.15)
Door (1)	Gray	3.77 mg/cm^2 (± 0.36)
Floor (2)	Gray	1 mg/cm^2 (± 0.02 to 0.04)
Wall (26)	Blue	1 mg/cm^2 (± 0.03 to 0.04)
	Brown	1 mg/cm^2 (± 0.04)
	Gray	1 mg/cm^2 (± 0.02 to 0.04)
	Green	1 mg/cm^2 (± 0.09)
	Light Blue	1 mg/cm^2 (± 0.04)
	White	1 mg/cm^2 (± 0.02 to 0.16)
Main Level - Hospital		
Ceiling (3)	White	1 mg/cm^2 (± 0.03 to 0.05)
Floor (1)	Gray	1 mg/cm^2 (± 0.03)
Wall (43)	Cream	1 mg/cm^2 (± 0.03)
	Green	1 mg/cm^2 (± 0.02 to 0.09)
	Light Blue	1 mg/cm^2 (± 0.04 to 0.05)
	Red	1 mg/cm^2 (± 0.13)
	White	1 mg/cm^2 (± 0.02 to 0.16)
	Yellow	1 mg/cm^2 (± 0.06 to 0.08)
Exterior - Hospital		
Trim (2)	Yellow	1.26 mg/cm^2 (± 0.13) to 1.37 mg/cm^2 (± 0.17)

A complete list of XRF readings is presented in Table 5. The location and approximate extent of LBP identified is presented on Figures 7 - 10.

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Interpretation of Results

Based on the XRF results, elevated lead concentrations are present throughout the basement and main floor of the hospital building. LBP was also identified on the exterior trim of the hospital building. The following table lists the location, current surface paint color, and estimated extent of LBP present at the Site. LBP is considered a COC in relation to the Site.

Location	Current Surface Paint Color	Estimated Extent
Basement - Hospital		
Ceiling	Green	525 sq. ft.
	White	1,000 sq. ft.
Door	Gray	1 Door
Floor	Gray	200 sq. ft.
Wall	Blue	275 sq. ft.
	Brown	120 sq. ft.
	Gray	1,000 sq. ft.
	Green	150 sq. ft.
	Light Blue	275 sq. ft.
	White	4,000 sq. ft.
Main Level - Hospital		
Ceiling	White	300 sq. ft.
Floor	Gray	100 sq. ft.
Wall	Cream	250 sq. ft.
	Green	450 sq. ft.
	Light Blue	325 sq. ft.
	Red	50 sq. ft.
	White	8,000 sq. ft.
	Yellow	225 sq. ft.
Exterior - Hospital		
Trim	Yellow	1,000 LF

Notes:
LF = linear feet
sq. ft. = square feet

6.2.2 Lead-in-Soils

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Evaluation of Laboratory Sample Results

Of the two lead-in-soil surface soils samples collected from the two southwest hospital wings, lead was detected above the reporting limits but not above applicable benchmarks. The following table summarizes the lead results for both lead-in-soil samples collected.

Soil Sample ID	Location	MT DEQ IEUBK Model (mg/kg)	EPA RSL – Residential Soil (mg/kg)	EPA RSL – Industrial Soil (mg/kg)	Lead Results (mg/kg)
LMH-SO01-0001	Ends of the two southwest wings	153	400	800	**30**
LMH-SO91-0001					**25.7**

The location of the lead-in-soil surface soil samples are presented in Figure 9 and 10. A summary of the analytical results is presented in Table 6.

Interpretation of Results

Based on the laboratory results, lead concentrations did not exceed comparison standards within the bare soil in the dripline around the perimeter of the hospital. Lead is not considered a COC in surface soils at the Site.

6.3 VISAUL INSPECTIONS

Lead-Lined Materials: Lead-lined materials were observed in the north wing on the main floor of the hospital building. The following table lists the location, material, and estimated extent. Lead-lined materials are considered a COC in relation to the Site.

Location	Material	Estimated Extent/Quantity
Room 203	Sheet Metal Behind Drywall	6 LF
Room 139	Door	1
	Sheet Metal Behind Drywall	5 LF
Room 109	Door	1
	Sheet Metal Behind Drywall	16 LF
Room 109A	Door	1
	Sheet Metal Behind Drywall	8 LF
Room 107	Door	1
	Glass	1

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Location	Material	Estimated Extent/Quantity
	Sheet Metal Behind Drywall	14 LF

The location and approximate extent of the lead-lined materials are presented in Figure 9.

PCBs: All ballasts were replaced in 2002. Approximately ½-gallon of transformer oil was observed in a jug in the basement of the hospital and is assumed to contain PCBs. PCBs are considered a COC at the Site.

Mercury: The following number of mercury ampules were observed in the thermostats at the Site.

- Hospital Boiler Room = 5 Ampules
- Hospital Basement = 1 Ampule
- Home Oxygen Building = 1 Ampule

The location of the mercury thermostat ampules is presented in Figures 3 and 11. Mercury is considered a COC at the Site.

Mold: Mold was not observed within the building. Mold is not considered a COC at the Site.

6.4 CONCEPTUAL SITE MODEL

Per ASTM E1903-11 (Section 6.4.6), validation of the conceptual site model is conducted by evaluating testing results and other investigation findings to determine whether available information is sufficient to support sound conclusions regarding the presence of the target analytes. The presence of the target analytes investigated as part of this Phase II ESA along with the current exposure pathways, as applicable, for the Site is presented in the following table.

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Target Analytes	Media	Contaminants Present Above Screening Benchmarks	Exposure Pathway	Exposure Route	Human Receptors	
					Residential	Workers
ACM	Building Materials and Dust	Yes (Building Materials and Dust)	Complete	Dermal	--	X
				Ingestion	--	X
				Inhalation	--	X
LBP	Building Materials	Yes	Potentially Complete	Dermal	--	X
				Ingestion	--	X
				Inhalation	--	X
Lead	Soil	No	Incomplete	Dermal	--	--
				Ingestion	--	--
				Inhalation	--	--
Lead	Lead-Lined Building Materials	Yes	Potentially Complete	Dermal	--	X
				Ingestion	--	X
				Inhalation	--	X
PCBs, Mercury, and Mold	Building Materials	Yes (Mercury and PCBs)	Potentially Complete	Dermal	--	X
				Ingestion	--	X
				Inhalation	--	X

Notes: -- = Receptor not at risk (Currently) X = Receptor at risk to exposure (Currently or Potentially)

Explanation: Evaluation of exposure pathway completeness is based upon the existing site use as vacant and assumes that no people are currently accessing the Site or will be accessing the Site other than workers during future assessment/redevelopment or maintenance workers. Once future site-specific activities are determined or if a change in current use occurs, exposure pathways should be re-assessed as they may alter the pathway completeness presented in this report and require further evaluation prior to conducting subsequent activities or changes at the Site.

6.5 DISCLOSURE OF AVAILABLE DATA INSUFFICIENT TO MEET OBJECTIVES

Per ASTM E1903-11 (Section 1.3.2), all Phase II ESA reports must disclose any respect in which available data are insufficient to meet the objectives of the assessment. Listed below are the disclosures in which the available data set for this investigation were insufficient to meet the objectives of this Phase II ESA, if any.

- Based upon the objectives for this Phase II ESA, no insufficiencies were encountered.

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7.0 CONCLUSIONS OF THE PHASE II ESA

START performed a Phase II ESA in conformance with the scope and limitations of ASTM Practice E1903-11 for the Livingston Memorial Hospital located at 504 South 13th Street in Livingston, MT. The following list is a summary of the conclusions regarding COCs and associated media identified by START at the Site:

Asbestos-Containing Material

- **Bulk Building Material Samples:** Results of the ACM survey indicate asbestos incinerator flue and pipe gaskets are present in the hospital building along with the previously identified floor tiles and mastics, linoleum, TSI, window glazing and caulking, roof drain bowl insulation, undercoating on sinks, and crawlspace TSI debris and soil. ACM is considered a COC in relation to the Site.
- **Dust Wipe Samples:** Results for all ten (10) dust wipe samples collected had asbestos present. Asbestos dust was identified on flooring surfaces within the basement and main floor of the hospital. Additional wipe samples, microvac samples, and/or air samples are needed during the next phase of assessment and/or remediation of the Site.

Lead-Based Paint

- **Limited XRF Survey:** Results of the LBP survey indicate LBP is present throughout basement, main floor, and on the exterior trim of the hospital building. LBP is considered a COC at the Site.
- **Lead-in-Soil:** Based on the results of the lead-in-soil samples, lead-in-soil is present but not above screening benchmarks. Lead-in-soil is not considered to be a COC in relation to the Site.

Lead-Lined Materials

- Lead-lined doors, drywall, and one glass window were observed in the north wing on the main floor of the hospital building. Lead-lined materials are considered a COC in relation to the Site.

PCBs, Mercury, and Mold

A summary of the observations regarding the visual inspections conducted are presented below:

- All potential PCBs ballasts were removed from the buildings; however, a partial gallon of transformer oil assumed to contain PCBs was found in the basement of the hospital. PCBs are considered COCs in relation to the Site.
- Seven (7) mercury thermostat switches were observed in the buildings. Mercury is considered a COC in relation to the Site.

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- No mold was observed in the building. Mold is not considered a COC in relation to the Site.

RECOMMENDATIONS

Based on the results of the Phase II ESA conducted, START recommends the following:

- START recommends contracting an accredited asbestos remediation company to further assess asbestos dust at the Site and determine appropriate remedial actions to address ACM during the cleanup phase of redevelopment (e.g., abatement, encapsulation, cleaning of all surfaces, etc.). The presence of asbestos dust indicates building surfaces and the surface of items stored in the building may need to be cleaned/decontaminated by an asbestos remediation contractor prior to reuse or disposal; otherwise, they may need to be disposed of as asbestos waste. ACM remediation is recommended prior to any renovation or demolition activities at the Site in order to permanently mitigate exposure risk.
- However, pending final redevelopment/reuse plans for the Site and considering the type and condition of ACM identified, development of an ACM Operations and Maintenance (O&M) Plan to monitor the condition of ACM identified at the Site, removal of select ACM (e.g., friable pipe insulation), and/or a combination of these remediation methods could be implemented. START recommends contracting an accredited asbestos remediation company to create and implement an ACM Operations and Maintenance (O&M) Plan to monitor the condition of ACM identified.
- START recommends contracting an accredited lead remediation company to determine appropriate remedial actions needed to address the LBP at the Site during the cleanup phase of redevelopment (e.g., encapsulation, chemical stripping, removal, etc.). Dust control methods should be implemented for the debris. It is recommended that all work be performed by an EPA Lead-Safe certified firm. If construction materials are to be removed, it is recommended that the construction debris disposal facility be contacted to determine if Toxicity Characteristic Leaching Procedure (TCLP) samples will be required.
- Lead sheet metal found in the walls, lead-lined doors, and leaded glass should be properly disposed of or recycled during renovation activities.
- Potential PCB-containing oil and mercury ampules should be removed and properly disposed of prior to demolition or renovation.

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8.0 SIGNATURE OF PHASE II ASSESSOR AND SEAL

This Phase II ESA was completed by the following START personnel and subcontractor(s), if applicable. Qualifications are provided at the end of the report:

- Ms. Natalie Quiet – Project Manager, Environmental Professional;
- Mr. Elliott Petri, P.E. – Engineer, Environmental Professional, and Montana-Accredited Asbestos and EPA Lead-Based Paint Inspector
- Mr. Michael Cherny, Scientist – Montana-Accredited Asbestos and EPA Lead-Based Paint Inspector; and

Ms. Natalie Quiet has undertaken the role of Phase II Assessor for this assessment. The following is the certification statement as defined in ASTM Practice E1903-11 (Section 9.2.1):

We have performed a Phase II environmental site assessment at the Livingston Memorial Hospital site located at 504 South 13th Street, Livingston, MT in conformance with the scope and limitations of ASTM Practice E1903-11 and for the following objectives:

- *To further refine the extent of ACM identified in the previous asbestos inspection, to address data gaps, and to investigate the potential presence of other environmental contamination;*
- *Conduct dust wipe sampling to evaluate the potential migration of known asbestos fibers from the crawlspace areas;*
- *Assess and evaluate on-site buildings for LBP;*
- *Assess and evaluate potential lead impacts to surface soils at the Site, if exterior LBP is identified on the buildings and bare soils are present beneath the LBP;*
- *Determine extent of lead-lined construction materials;*
- *Conduct visual inspections of on-site buildings to determine presence/absence of PCB-containing equipment, mercury-containing equipment, and mold;*
- *Develop sufficient information to render a reasonable professional opinion whether hazardous substances either are or are not present at the Site with respect to the potential concerns assessed. If present, include concentrations of hazardous substances based on field screening and/or laboratory analysis of samples;*
- *Gather and provide sufficient data to assist the TBA recipient in making informed decisions with regard to the future use of the property; and*
- *Obtain sufficient data to support conceptual remediation cost estimating, if necessary.*

Natalie Quiet
Certifying Environmental Professional (Print)

Project Manager
Title

Natalie Quiet
Signature

5/25/2018
Date

This document was prepared by START for U.S. EPA Region 8, as tasked by the EPA, in accordance with Contract EP-S8-13-01. It shall not be released or disclosed in whole or in part without the express written permission of the EPA.

9.0 SPECIFICATIONS FOR ASTM E1903-11 REPORT USE AND RELIANCE

9.1 SPECIAL TERMS AND CONDITIONS

This document has been prepared by the WESTON START-IV team as tasked by the EPA solely for the use and benefit of the EPA and Homeword, Inc. Any use of this document or information herein by persons or entities other than the EPA or Homeword, Inc., without the express written consent of START, will be at the sole risk and liability of said person or entity. START will not be liable to the EPA, Homeword, Inc., or such persons or entities, for any damages resulting therefrom. It is understood that this document may not include all information pertaining to the described site.

9.2 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT

ASTM E1903-11 (Section 4.2.1) acknowledges, "No Phase II ESA can eliminate all uncertainty. Furthermore, any sample, either surface or subsurface, taken for chemical testing may or may not be representative of a larger population. Professional judgment and interpretation are inherent in the process, and even when exercised in accordance with objective scientific principles, uncertainty is inevitable. Additional assessment beyond that which was reasonably undertaken may reduce the uncertainty". ASTM E1903-11 (Section 4.2.1.2) acknowledges, "The effectiveness of a Phase II ESA may be compromised by limitations or defects in the information used to define the objectives and scope of the investigation, including inability to obtain information concerning historic site uses or prior site assessment activities despite the efforts of the user and Phase II Assessor to obtain such information in accordance with 5.1.3". Furthermore, the ASTM E1903-11 (Section 4.2.2) states, "Phase II ESAs do not generally require an exhaustive assessment of environmental conditions on a property. There is a point at which the cost of information obtained and the time required to obtain it outweigh the benefit of the information and, in the context of private transactions and contractual responsibilities, may become a material detriment to the orderly conduct of business. If the presence of target analytes is confirmed on a property, the extent of further assessment is a function of the degree of confidence required and the degree of uncertainty acceptable in relation to the objectives of the assessment".

9.3 DISCLAIMERS

START has performed this Phase II ESA in general conformance with the scope and limitations of ASTM E1903-11 standards and TDD 0003/1802-06. The Phase II ESA findings and conclusions presented herein are professional opinions based solely on data collected during the assessment and/or interpretation of information and past data provided for review. The information and data collected from the Site by START is based on the conditions existing on the date(s) of START's assessment activities at the property. START does not warrant or guarantee information obtained from third parties used for this assessment are correct, complete, and/or current.

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Though START did collect samples and/or perform testing during this assessment, it is possible that contamination remains undiscovered or that property conditions will change in the future. START does not warrant or guarantee the property suitable for any particular purpose or certify the property as "clean."

ASTM E1903-11 (Section 1.5) states, "This practice is not intended to supersede applicable requirements imposed by regulatory authorities. This practice does not attempt to define a legal standard of care either for the performance of professional services with respect to matters within its scope, or for the performance of any individual *Phase II Environmental Site Assessment"*.

Information, limitations, and disclaimers provided in this general section apply to all of the sections included in this report.

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10.0 REFERENCES

ASTM, International (ASTM), 2011. E1903-11, *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process.* West Conshohocken, Pennsylvania.

Citation	Reference Type	Assessment Factor				
		Soundness	Applicability and Utility	Clarity and Completeness	Uncertainty and Variability	Evaluation and Review
ASTM, 2011	Guidance	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable

ASTM, 1999. D 6480-99, *Standard Test Method for Wipe Sampling of Surfaces, Indirect Preparation, and Analysis for Asbestos Structure Number Concentration by Transmission Electron Microscopy.*

Citation	Reference Type	Assessment Factor				
		Soundness	Applicability and Utility	Clarity and Completeness	Uncertainty and Variability	Evaluation and Review
ASTM, 1999	Guidance	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable

EPA, 2018. *Technical Direction Document (TDD)* 0003/1802-06.

Citation	Reference Type	Assessment Factor				
		Soundness	Applicability and Utility	Clarity and Completeness	Uncertainty and Variability	Evaluation and Review
EPA, 2018	Guidance	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable

EPA, October 1985. EPA's "Pink Book", *Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials.* (EPA 560/5-85-030a).

Citation	Reference Type	Assessment Factor				
		Soundness	Applicability and Utility	Clarity and Completeness	Uncertainty and Variability	Evaluation and Review
EPA, 1985	Guidance	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable

NIH, 2016. *NESHAP Asbestos Renovation Survey, Former Livingston Hospital, 504 South 13th Street Livingston, Montana, Project No. 999-3019*. March 7, 2016.

Citation	Reference Type	Assessment Factor				
		Soundness	Applicability and Utility	Clarity and Completeness	Uncertainty and Variability	Evaluation and Review
NIH, 2016	Guidance	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable

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WESTON, 2018. *Phase I ESA, Livingston Memorial Hospital, 504 South 13th Street, Livingston, Park County, Montana.* April 2018.

Citation	Reference Type	Assessment Factor				
		Soundness	Applicability and Utility	Clarity and Completeness	Uncertainty and Variability	Evaluation and Review
WESTON, 2018a	Document	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable

WESTON, 2018. *Sampling and Analysis Plan, Livingston Memorial Hospital, 504 South 13th Street, Livingston, Park County, Montana.* April 2018.

Citation	Reference Type	Assessment Factor				
		Soundness	Applicability and Utility	Clarity and Completeness	Uncertainty and Variability	Evaluation and Review
WESTON, 2018b	Document	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable

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11.0 QUALIFICATIONS

START utilized qualified, professional staff, trained in performing the scope of work required for this Phase II ESA. The START team personnel included a project manager and technical specialist(s). Their roles are described in more detail as follows:

- Project Manager and Environmental Professional – Ms. Natalie Quiet is a senior project scientist with over 15 years of experience in the field of environmental sciences. Ms. Quiet specializes in the development and implementation of site investigation plans, analysis of soil, sediment, groundwater, and surface water data, evaluation of remediation options, and conducting Phase I/II investigations, Preliminary Assessment (PA)/Site Inspection (SI), and Remedial Investigation (RI)/Feasibility Studies (FS). She is experienced in projects involving initial site assessment, soil, sediment, surface water, and groundwater investigations, remedial action/corrective action plans, risk assessment, closure plan development, and agency negotiation.
- Engineer and Environmental Professional – Mr. Elliott Petri, P.E. has a M.S. in Environmental Science and Engineering with 8+ years of experience in the field of environmental sciences including site management, Phase I/II ESAs, site investigations, assessments and remediation; Mr. Petri has managed/conducted quality control on projects from $20,000 to 4 million dollars for the United States Air Force and the EPA.
- Scientist – Mr. Michael Cherny has 2+ years of project experience collecting soil, groundwater, surface water, and air samples, and conducting air monitoring. His experience includes conducting site assessments, removals, technical report documentation, and field instrument proficiency. Mr. Cherny is a certified asbestos and LBP inspector in Colorado, Montana, and EPA Region 8 administered states.

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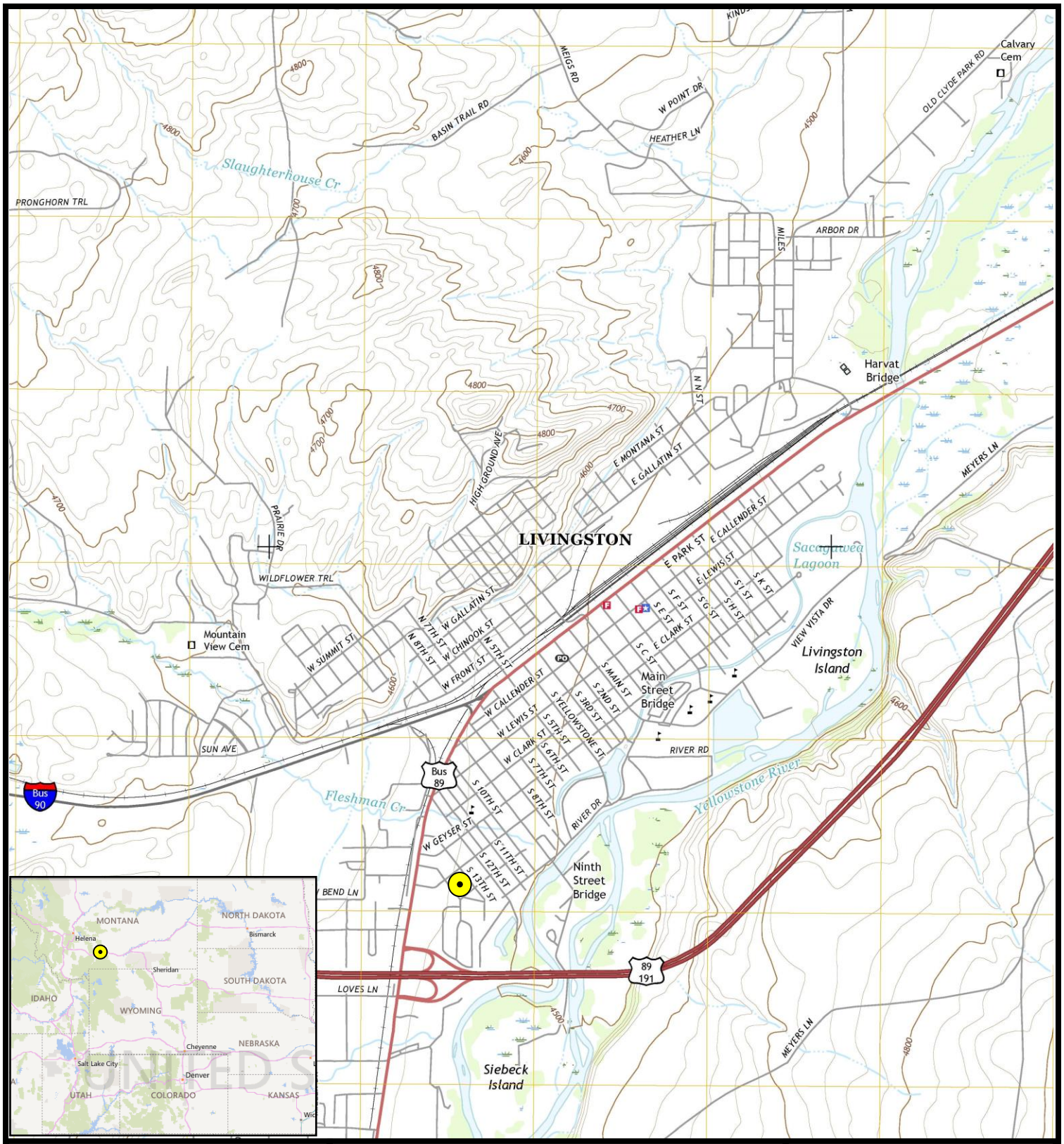
FIGURES



Legend

Site Location (Approximate)

0 1,200 2,400 feet

N W E S

Prepared for:
U.S. EPA Region 8

Contract No.:
EP-S8-13-01

TDD:
1802-06

TO:
0003

Prepared By:
Weston Solutions, Inc.
START IV

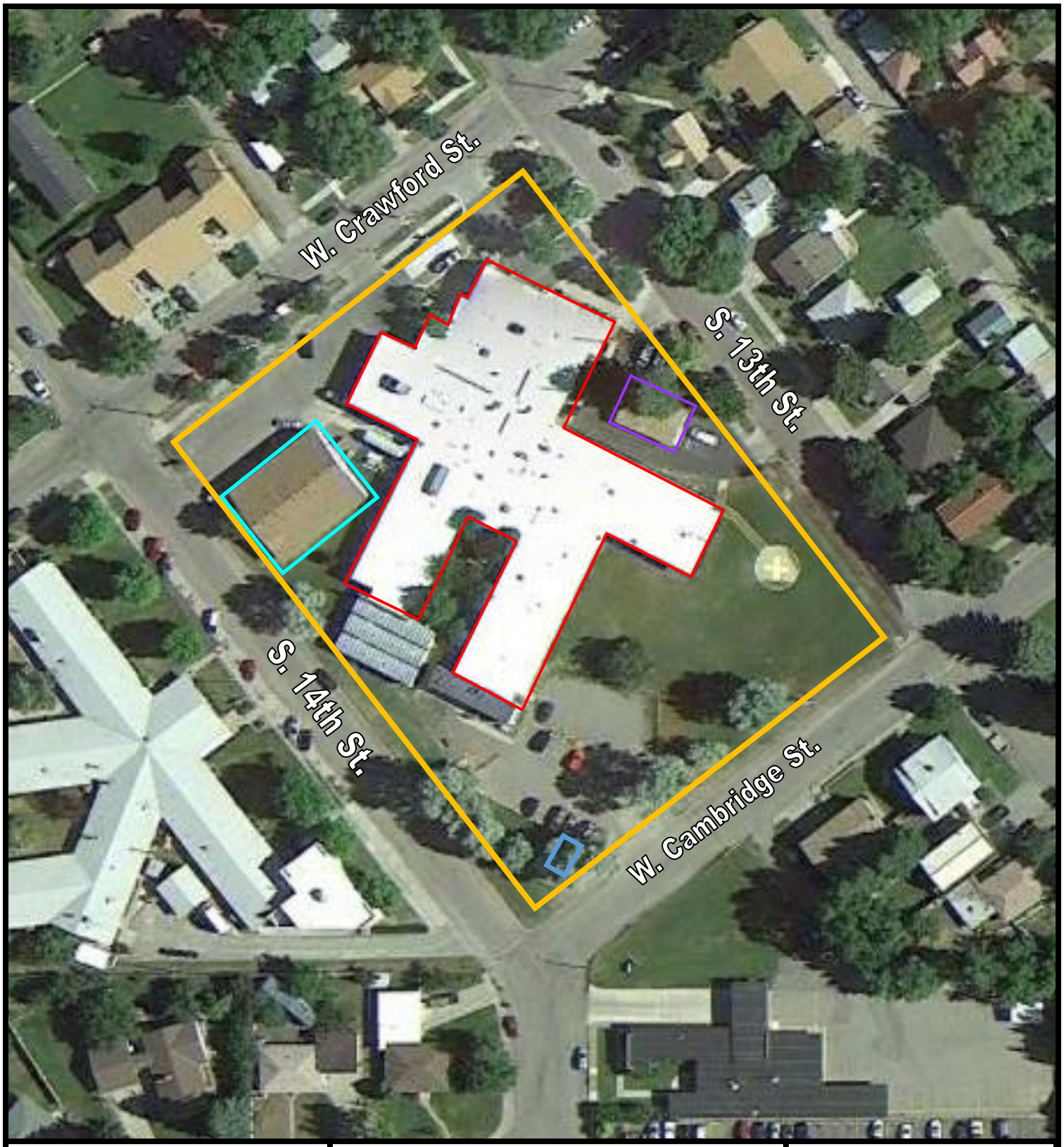
Suite 100
1435 Garrison Street
Lakewood, CO 80215

FIGURE 1

SITE LOCATION MAP

LIVINGSTON MEMORIAL HOSPITAL
LIVINGSTON,
PARK COUNTY, MONTANA

DATE: 3/8/2018



Legend

- Property Boundary
- Home Oxygen Building
- Livingston Memorial Hospital
- Maintenance Shed
- Mental Health Building

0 50 100 feet

N W E S

Prepared for:
U.S. EPA Region 8

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EP-S8-13-01

TDD:
1802-06

TO:
0003

Prepared By:
Weston Solutions, Inc.
START IV

Suite 100
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Lakewood, CO 80215

FIGURE 2

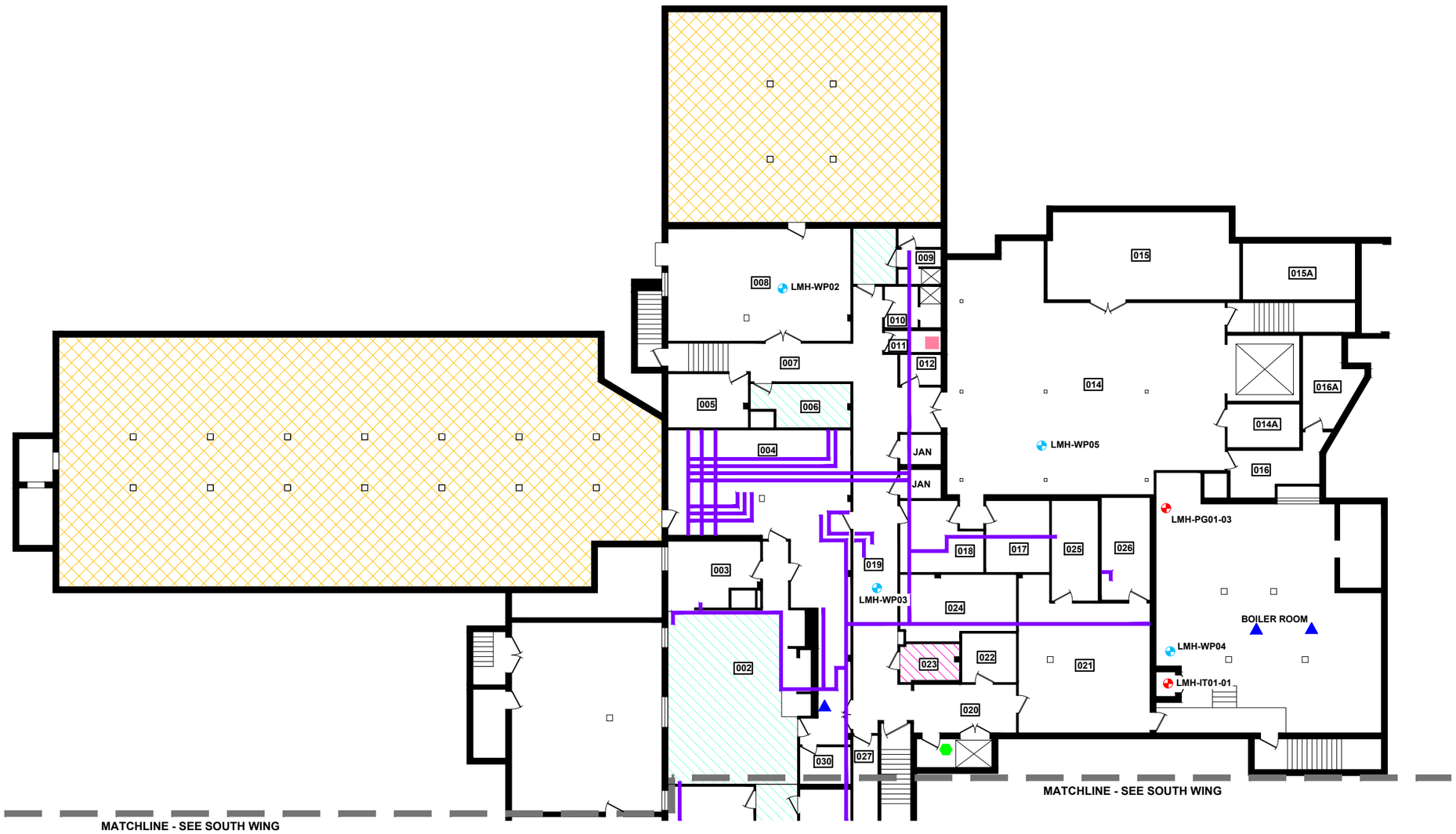
SITE VICINITY

LIVINGSTON MEMORIAL HOSPITAL
LIVINGSTON, PARK COUNTY, MONTANA

DATE: 5/21/2018

LEGEND:

ACM	ASBESTOS CONTAINING MATERIAL
	ACM SAMPLE LOCATION (APPROXIMATE)
	ASBESTOS WIPE SAMPLE LOCATION (APPROXIMATE)
	ACM LINOLEUM EXTENT
	ACM FLOOR TILE AND MASTIC EXTENT
	PIPE INSULATION DEBRIS EXTENT
	ACM PIPE INSULATION AND FITTINGS EXTENT
	SINKS WITH ACM UNDERCOATING
	MERCURY SWITCH
	PCB TRANSFORMER OIL

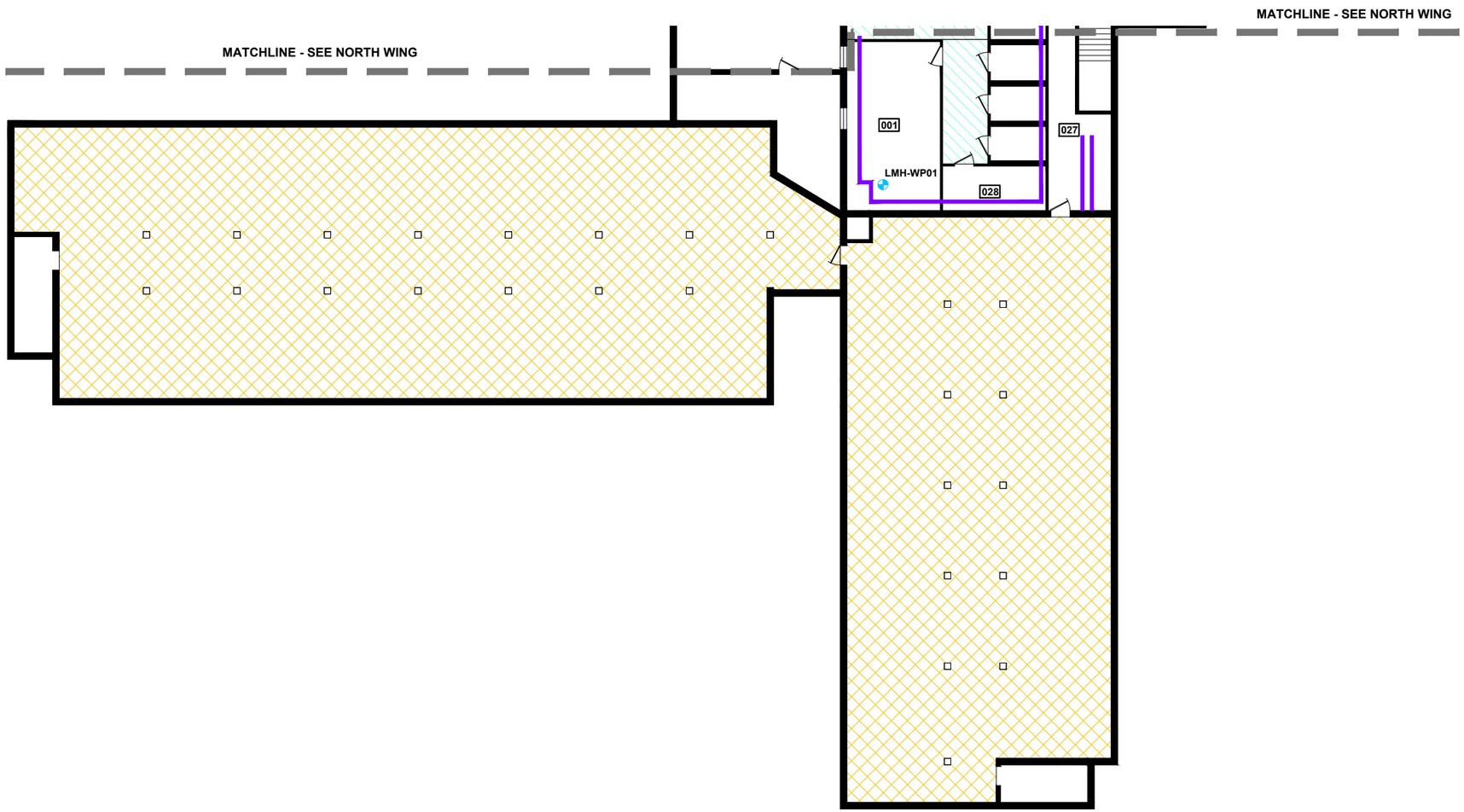


N

0 20'

Scale:1" = 20'

Contract No.: EP-S8-13-01 TDD: 1802-06 TO: 0003	Prepared By: Weston Solutions, Inc. START IV Suite 100 1435 Garrison Street Lakewood, CO 80215	ACM SAMPLE LOCATION AND EXTENT MAP NORTH WING - BASEMENT FLOOR LIVINGSTON MEMORIAL HOSPITAL HAZARDOUS BUILDING MATERIALS SURVEY	DATE: 5/2/18 SCALE: 1"=20'	Figure 3



LEGEND:

ACM	ASBESTOS CONTAINING MATERIAL
	ASBESTOS WIPE SAMPLE LOCATION (APPROXIMATE)
	PIPE INSULATION DEBRIS EXTENT
	ACM FLOOR TILE AND MASTIC EXTENT
	ACM PIPE INSULATION AND FITTINGS EXTENT

N

0 20'

Scale:1" = 20'

Contract No.:
EP-S8-13-01
TDD: 1802-06
TO: 0003

Prepared By:
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START IV
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Lakewood, CO 80215

ACM SAMPLE LOCATION AND EXTENT MAP
SOUTH WING - BASEMENT FLOOR
LIVINGSTON MEMORIAL HOSPITAL
HAZARDOUS BUILDING MATERIALS SURVEY

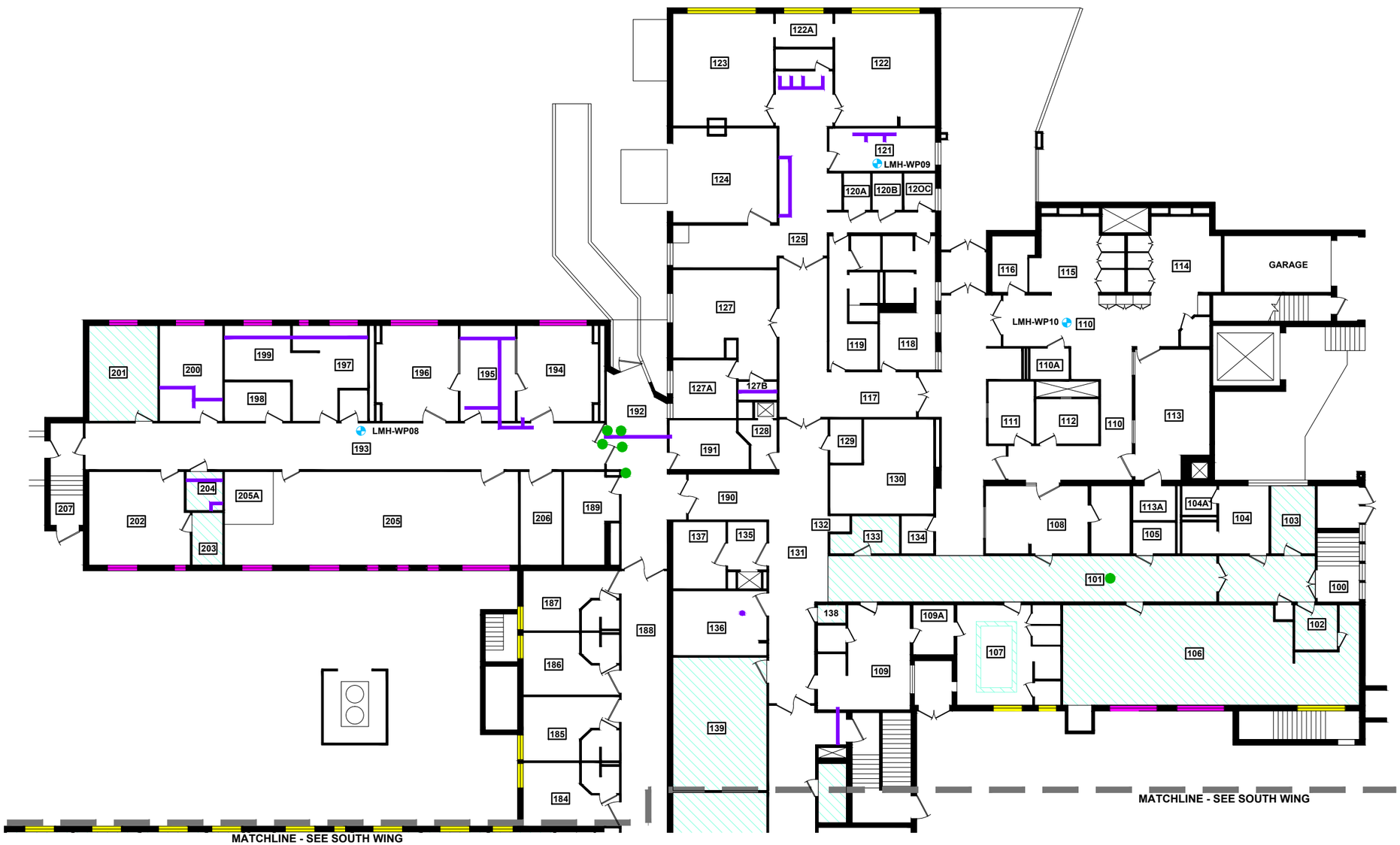
DATE: 5/2/18

SCALE: 1"=20'

Figure 4

LEGEND:

- ACM — ASBESTOS CONTAINING MATERIAL
- ASBESTOS WIPE SAMPLE LOCATION (APPROXIMATE)
- ACM FLOOR TILE AND/OR MASTIC EXTENT
- ACM PIPE INSULATION AND FITTINGS EXTENT
- ACM WINDOW CAULK EXTENT
- ACM WINDOW GLAZING EXTENT
- ACM ROOF DRAIN BOWL



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Scale:1" = 20'

Contract No.: EP-S8-13-01 TDD: 1802-06 TO: 0003	Prepared By: Weston Solutions, Inc. START IV Suite 100 1435 Garrison Street Lakewood, CO 80215	ACM SAMPLE LOCATION AND EXTENT MAP NORTH WING - MAIN FLOOR LIVINGSTON MEMORIAL HOSPITAL HAZARDOUS BUILDING MATERIALS SURVEY	DATE: 5/2/18 SCALE: 1"=20'	Figure 5

LEGEND:

ACM	ASBESTOS CONTAINING MATERIAL
	ASBESTOS WIPE SAMPLE LOCATION (APPROXIMATE)
	ACM FLOOR TILE AND/OR MASTIC EXTENT
	ACM PIPE INSULATION AND FITTINGS EXTENT
	ACM WINDOW CAULK EXTENT
	ACM ROOF DRAIN BOWL

N

0 20'

Scale:1" = 20'

Contract No.: EP-S8-13-01 TDD: 1802-06 TO: 0003	Prepared By: Weston Solutions, Inc. START IV Suite 100 1435 Garrison Street Lakewood, CO 80215	ACM SAMPLE LOCATION AND EXTENT MAP SOUTH WING - MAIN FLOOR LIVINGSTON MEMORIAL HOSPITAL HAZARDOUS BUILDING MATERIALS SURVEY	DATE: 5/2/18 SCALE: 1"=20'	Figure 6

LEGEND:

LBP	LEAD BASED PAINT
	LBP CEILING EXTENT
	LBP FLOOR EXTENT
	LBP WALLS/BUILT-INS EXTENT

N

0 20'

Scale:1" = 20'

Contract No.:
EP-S8-13-01
TDD: 1802-06
TO: 0003

Prepared By:
Weston Solutions, Inc.
START IV
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Lakewood, CO 80215

LBP LOCATION AND EXTENT MAP
NORTH WING - BASEMENT FLOOR
LIVINGSTON MEMORIAL HOSPITAL
HAZARDOUS BUILDING MATERIALS SURVEY

DATE:
5/2/18

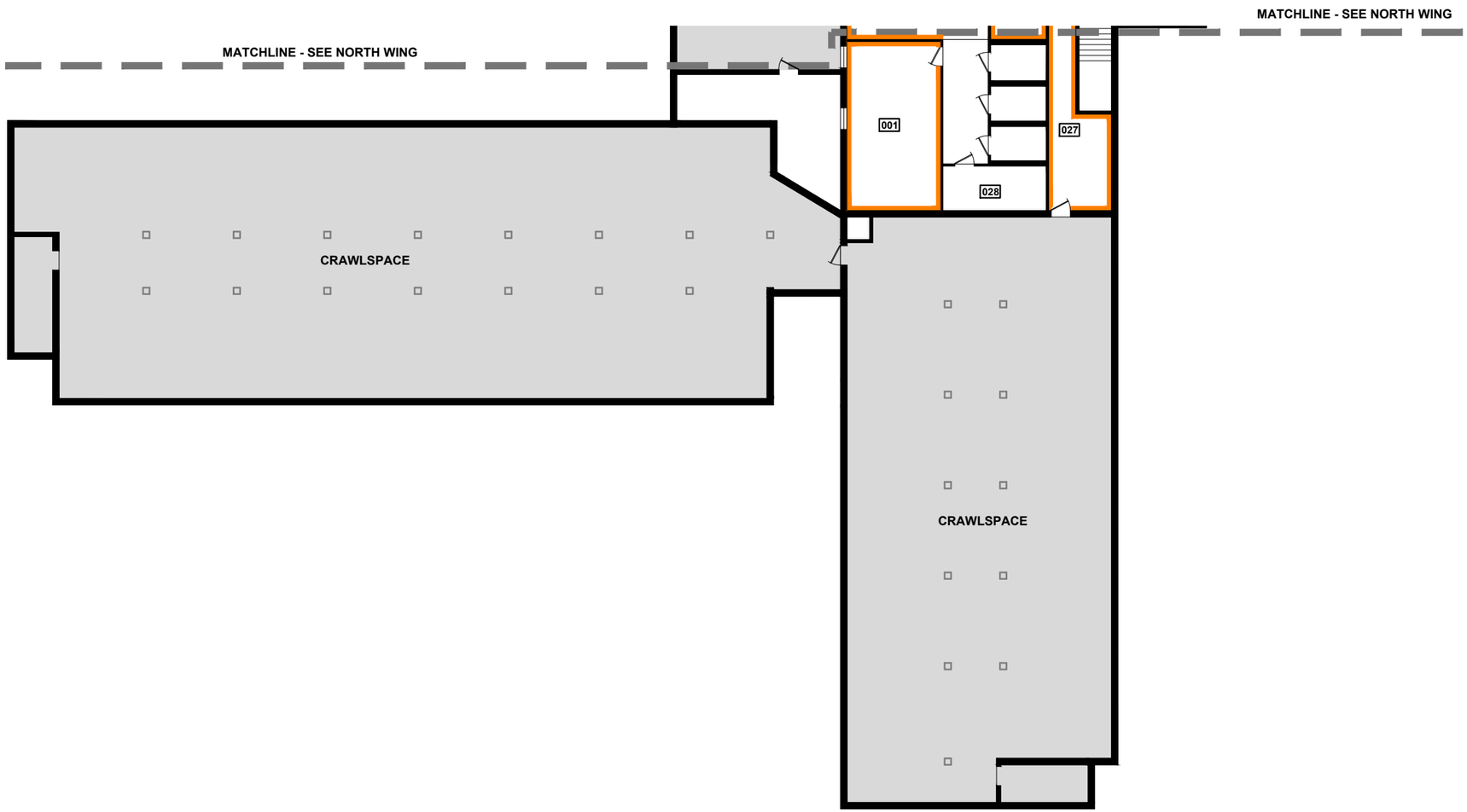
SCALE:
1"=20'

Figure
7

LEGEND:

LBP LEAD BASED PAINT

LBP WALLS EXTENT



N

0 20'

Scale:1" = 20'

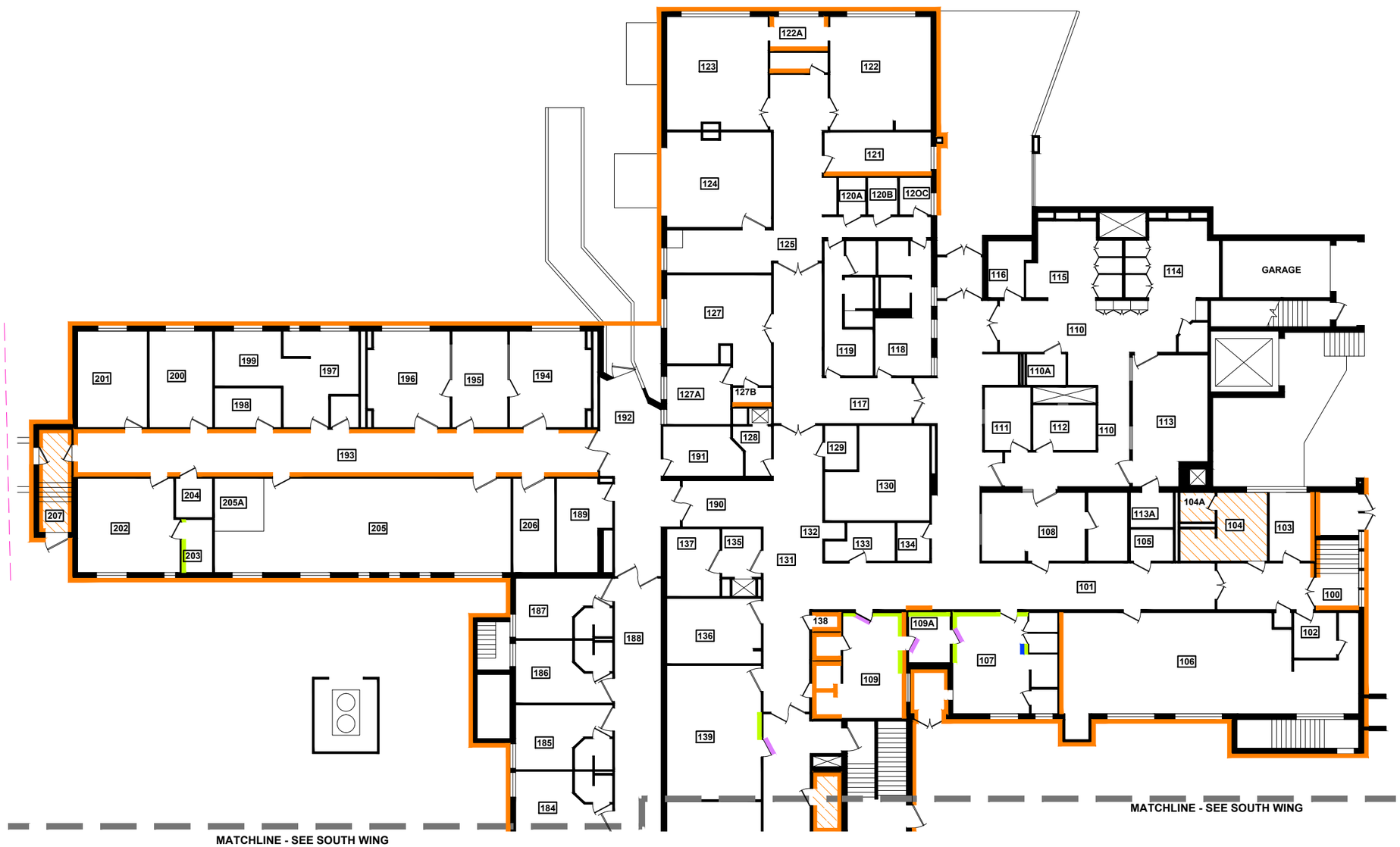
Contract No.: EP-S8-13-01 TDD: 1802-06 TO: 0003	Prepared By: Weston Solutions, Inc. START IV Suite 100 1435 Garrison Street Lakewood, CO 80215	LBP LOCATION AND EXTENT MAP SOUTH WING - BASEMENT FLOOR LIVINGSTON MEMORIAL HOSPITAL HAZARDOUS BUILDING MATERIALS SURVEY	DATE: 5/2/18 SCALE: 1"=20'	Figure 8

LEGEND:

LBP	LEAD BASED PAINT
	LBP EXTENT
	LBP WALLS EXTENT
	LEAD LINED DRYWALL EXTENT
	LEAD LINED DOORS EXTENT
	LEADED GLASS EXTENT
	LEAD IN SOIL ALIQUOT AREA

NOTES:

LMH-S001-0001 = 30 mg/Kg
LMH-S091-0001 = 25.7 mg/Kg



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0 20'

Scale:1" = 20'

Contract No.: EP-S8-13-01 TDD: 1802-06 TO: 0003	Prepared By: Weston Solutions, Inc. START IV Suite 100 1435 Garrison Street Lakewood, CO 80215	LBP LOCATION AND EXTENT MAP NORTH WING - MAIN FLOOR LIVINGSTON MEMORIAL HOSPITAL HAZARDOUS BUILDING MATERIALS SURVEY	DATE: 5/2/18 SCALE: 1"=20'	Figure 9

LEGEND:

LBP LEAD BASED PAINT

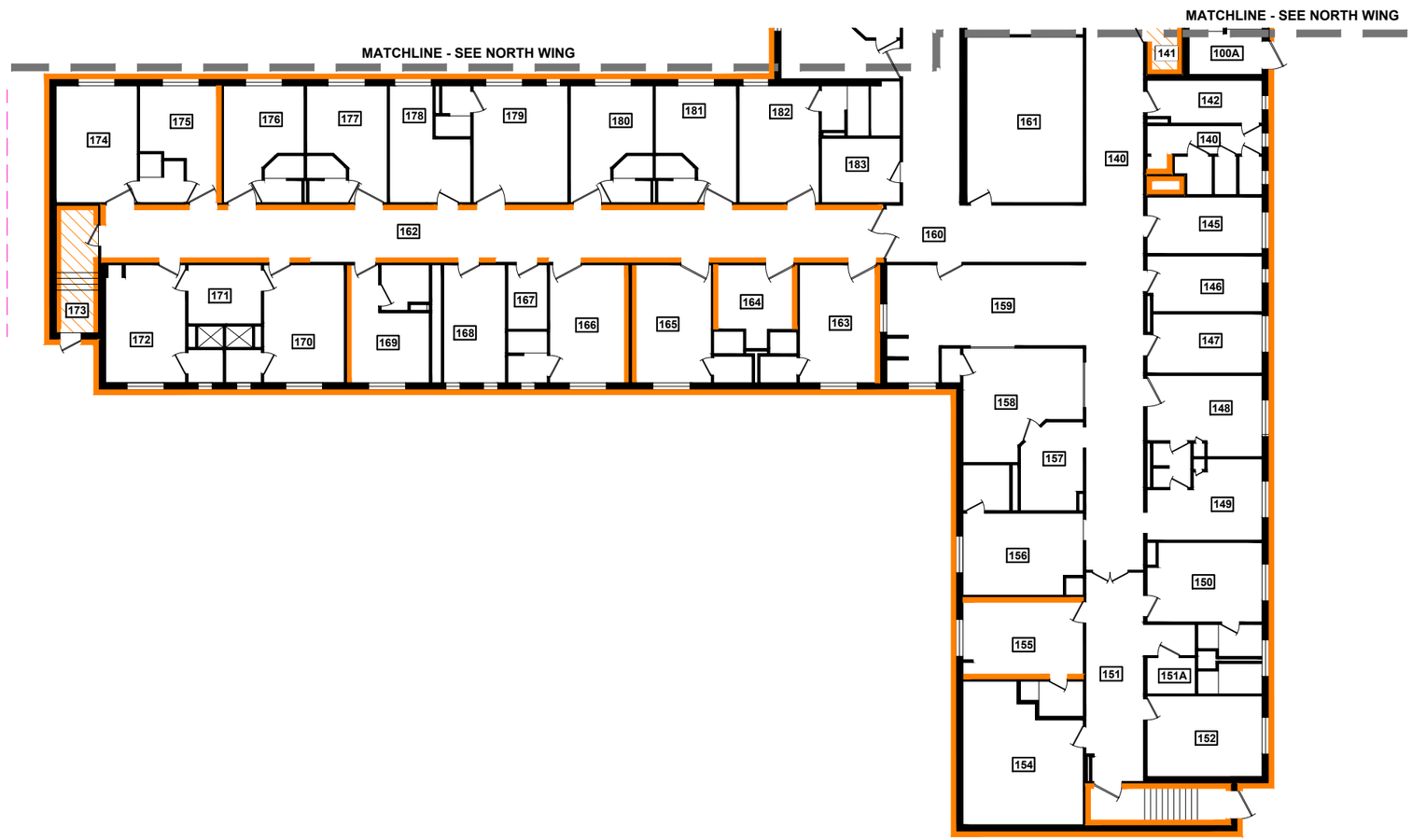
LBP EXTENT

LEAD - IN - SOIL ALIQUOT AREA

NOTES:

LMH-S001-0001 = 30 mg/Kg

LMH-S091-0001 = 25.7 mg/Kg



N

0 20'

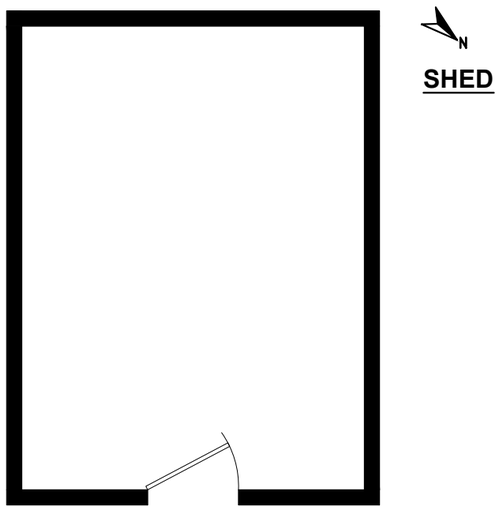
Scale:1" = 20'

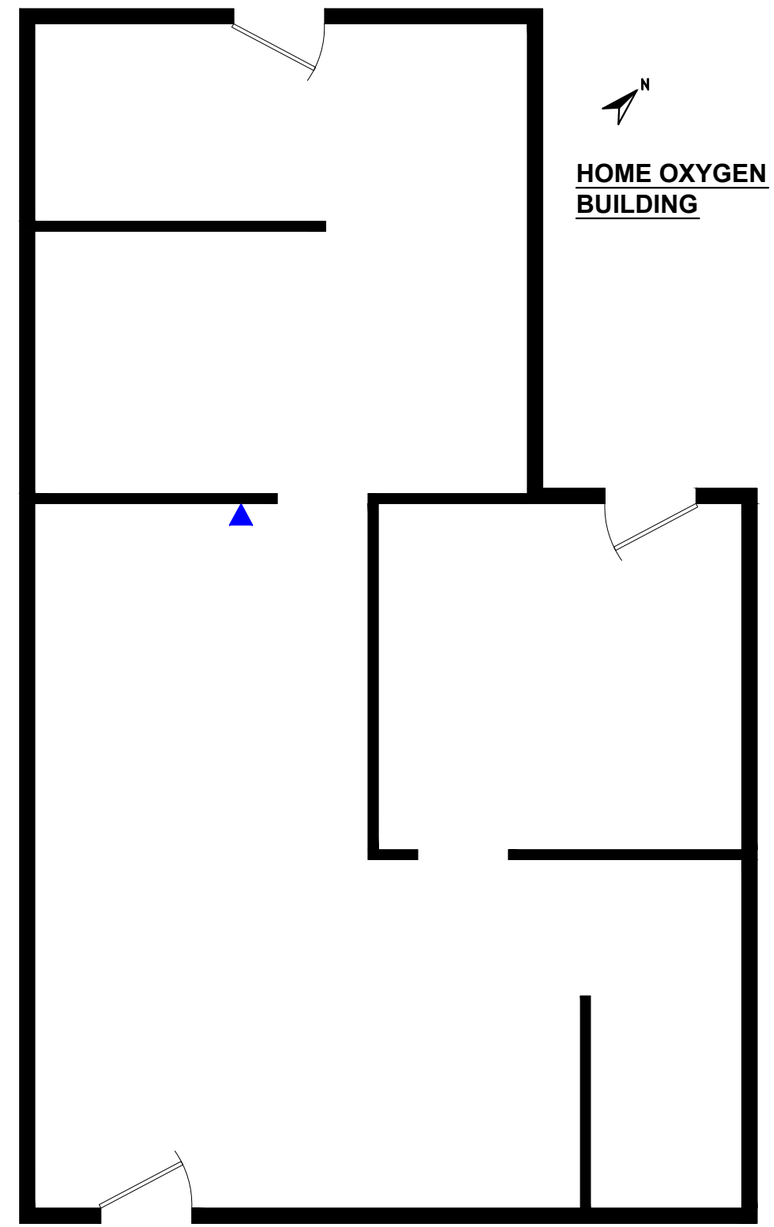
Contract No.: EP-S8-13-01 TDD: 1802-06 TO: 0003	Prepared By: Weston Solutions, Inc. START IV Suite 100 1435 Garrison Street Lakewood, CO 80215	LBP LOCATION AND EXTENT MAP SOUTH WING - MAIN FLOOR LIVINGSTON MEMORIAL HOSPITAL HAZARDOUS BUILDING MATERIALS SURVEY	DATE: 5/2/18 SCALE: 1"=20'	Figure 10

LEGEND:

ACM ASBESTOS CONTAINING MATERIAL

▲ MERCURY SWITCH





0 5'

Scale:1" = 5'

Contract No.: EP-S8-13-01 TDD: 1802-06 TO: 0003	Prepared By: Weston Solutions, Inc. START IV Suite 100 1435 Garrison Street Lakewood, CO 80215	ACM SAMPLE LOCATION AND EXTENT MAP HOME OXYGEN BUILDING AND SHED LIVINGSTON MEMORIAL HOSPITAL HAZARDOUS BUILDING MATERIALS SURVEY	DATE: 5/2/18 SCALE: 1"=20'	Figure 11

TABLES

ACM Sample Results and Estimated Volumes

Table 1

Sample ID	Physical Description	ACM Layer	Asbestos Type and Percent Composition	Estimated Volume
Hospital Basement				
LMH-IT01-01	Incinerator Transite Flue	B - Gray fibrous cementitious material	Chrysotile 12%	500 sq. ft.
LMH-PG01-03	Pipe Gasket	A - Brown/multi-colored gasket	Chrysotile 55%	5 gaskets

Notes:
sq. ft. = square feet

Non-detect for Asbestos Samples

Table 2

Sample ID	Physical Description	Sample Layer(s)
Shed		
SH-DW01-01	Drywall	A - White compound
		B - Light pink/tan drywall
SH-DW01-02	Drywall	A - Off white compound
		B - White compound
		C - Light pink/tan drywall
SH-DW01-03	Drywall	A - Off white compound
		B - White compound
		C - Light pink/tan drywall
SH-RM01-04	Roofing Material	A - Black fibrous resinous material
		B - Light gray shingle w/ a trace of black tar
Home Oxygen Building		
HOB-RM01-01	Roofing Material	A - Black fibrous resinous material
		B - Tan/multi-colored shingle
HOB-CB01-02	Cove Base	A - White compound
		B - Off white adhesive
		C - Tan cove base
HOB-LN01-03	Linoleum	A - White compound
		B - Off white adhesive
		C - Gray/multi-colored sheet vinyl w/ off white fibrous backing material
HOB-DW01-04	Drywall	A - White fibrous woven material
		B - White texture w/ off white paint
		C - Light pink/tan drywall
HOB-DW01-05	Drywall	A - White fibrous woven material
		B - White texture w/ off white paint
		C - Light pink/tan drywall
HOB-DW01-06	Drywall	A - White texture w/ off white paint
		B - Light pink/tan drywall
HOB-DW01-07	Drywall	A - White texture w/ off white paint
		B - Light pink/tan drywall
HOB-CB02-08	Cove Base	A - White compound
		B - Off white adhesive
		C - Tan cove base
HOB-LN02-09	Linoleum	A - Tan adhesive
		B - Tan/multi-colored sheet vinyl
HOB-DW02-10	Drywall	A - Off white/multi-colored paint w/ white compound
		B - Off white/tan drywall
HOB-DW02-11	Drywall	A - White fibrous woven material
		B - Tan/off white drywall
		C - White texture w/ off white/multi-colored paint
HOB-DW02-12	Drywall	A - White compound w/ off white/multi-colored paint
		B - Light pink/tan drywall
Hospital Basement		
LMH-HG01-02	Heat Exchanger Gasket	A - Tan/multi-colored fibrous material
LMH-FI01-04	Floor Insulation	A - Brown rock w/ off white compound
LMH-CB01-05	Cove Base	A - Off white adhesive
		B - Light gray cove base
LMH-DT01-06	Duct Tape	A - Off white fibrous woven material w/ tan paint
		B - White compound
LMH-FM01-07	Fridge Material	A - Off white perlitic cementitious material w/ off white/multi-colored paint
Hospital Roof		
LMH-RM01-08	Roofing Material	A - Tan adhesive
		B - Tan cementitious material
		C - Off white/multi-colored fibrous resinous material
Hospital Main Level		
LMH-WF01-09	Wall Felt	A - Black felt
LMH-TF01-10	Terrazzo Flooring	A - Gray/multi-colored granular flooring
LMH-TF02-11	Terrazzo Flooring	A - Tan/multi-colored granular flooring

Previous Asbestos Sample Results Table 3

Building Material	Homogeneous Area	2016 ACM Result	Location/Room(s)
Pipe insulation debris	D-1, D-3, D-4, D-5, D-6	3-45% Chrysotile	East, laundry, and dining crawlspaces
Linoleum - tan tile under carpet	F1.1	10% Chrysotile	023
Floor tile - 12"x12" purple marbled	F2.6	2% Chrysotile (mastic)	101, 107, 204
Floor tile - 12"x12" ivory with tan marbling	F2.8	5% Chrysotile (mastic)	133, 138
Floor tile - 12"x12" off-white and tan marbled	F2.11	3% Chrysotile (mastic)	145, 163, 174
Floor tile - 12"x12" rose marbled	F2.12	2-3% Chrysotile (tile and mastic)	130, 203
Floor tile - 12"x12" white and black granite	F2.16	5% Chrysotile (mastic)	151
Floor tile - 9"x9" brown with black streaks	F3.1	4-8% Chrysotile (tile and mastic)	009
Floor tile - 9"x9" light brown with brown streaks	F3.2	5-6% Chrysotile (tile and mastic)	006
Floor tile - 9"x9" green	F3.3	4-5% Chrysotile (tile and mastic)	029
Floor tile - 9"x9" red	F3.3	5-8% Chrysotile (tile and mastic)	106
Floor tile - 9"x9" tan	F3.4	4-5% Chrysotile (tile and mastic)	160
Floor tile - 9"x9" gray	F3.4	4-5% Chrysotile (tile and mastic)	160
Floor tile - 9"x9" green	F3.5	6-8% Chrysotile (tile and mastic)	201
Floor tile - 4"x2' brown	F9.1	4% crocidolite (mastic)	103, 183
Transite wall board	M4.1	Assumed	refrigeration rooms
Window caulk - gray with white	M8.1	8% Chrysotile	146, 149, 155
Window glazing - white	M8.2	4% Chrysotile	106, 196, 201
Window caulk - white	M8.3	12% Chrysotile	106, 196, 201
Sink undercoating - black	M10.1	4% Chrysotile	111, 126, 127
Mudded fitting	T2.1	12% Chrysotile, 8% Amosite	Boiler room, 200
Magnesia pipe insulation	T3.3	12% Chrysotile, 8% Amosite	Boiler room
Air-Cell pipe insulation	T3.4	Assumed	Boiler room
Duplex pipe insulation	T3.5	5% Chrysotile	Boiler room
Roof drain bowl insulation	T12.1	15% Chrysotile, 8% Amosite	101
Hard fitting debris	D-2	ND	East crawlspace
Linoleum - beige	F1.2	ND	011
Linoleum - beige and brown	F1.3	ND	104A
Linoleum - purple and gray	F1.4	ND	109
Linoleum - 12"x12" white tile pattern	F1.6	ND	161
Floor tile - 12"12" beige with black dots	F2.1	ND	019, 020, 024
Floor tile - 12"12" pink with black spots	F2.2	ND	007, 009
Floor tile - 12"12" white with grey specks	F2.3	ND	10
Floor tile - 12"12" white with gray marble pattern	F2.4	ND	002, 029
Floor tile - 12"12" white with beige specks	F2.5	ND	101
Floor tile - 12"12" green marbled	F2.7	ND	101
Floor tile - 12"12" white with gray marbling	F2.9	ND	104, 134
Floor tile - 12"12" light blue marbled	F2.10	ND	107
Floor tile - 12"12" white with green and brown specks	F2.13	ND	202
Floor tile - 12"12" brown marbled	F2.14	ND	202
Floor tile - 12"12" white with blue specks	F2.15	ND	107
Carpet - teal	F5.1	ND	022
Carpet - blue	F5.2	ND	017, 018
Carpet - brown	F5.3	ND	137, 159, 189
Carpet - blue	F5.4	ND	160, 162, 190
Leveling compound	F6.1	ND	018
Ceramic tile - 1"x1" brown	F7.1	ND	164, 172, 185
Ceramic tile - 6"x6" red	F8.1	ND	100, 100A
Gypsum board assembly	M3.1	ND	Boiler room
Sheetrock & joint compound - original building	M3.2	ND	137, 157, 165
Gypsum board assembly - addition	M3.3	ND	015, 016, 106A
Sheetrock & joint compound - 1989 addition	M3.4	ND	184, 185, 188
Gypsum board behind plaster	M3.5	ND	101, 127, 151
Ceiling panel - 2'x4' medium fissure and pinhole	M5.1	ND	021
Ceiling panel - 2'x4' heavy texture, fissure, and pinholes	M5.2	ND	024
Ceiling panel - 2'x4' light texture, fissure, and pinholes	M5.3	ND	022
Ceiling panel - 2'x4' pinhole and small fissure	M5.4	ND	020
Ceiling panel - 2'x4' 5"x5" pattern	M5.5	ND	017, 018
Ceiling panel - 2'x4' deep fissure, pinhole, light texture	M5.6	ND	014, 017
Ceiling panel - 2'x4' gypsum board panel with vinyl cover	M5.7	ND	002
Ceiling panel - 1'x1' wood-based	M6.1	Not sampled (non-suspect)	basement
Ceiling panel - 1'x1' white with heavy fissures	M6.2	ND	103, 153
Ceiling panel - 1'x1' patterned holes	M6.3	ND	106
Ceiling panel - 1'x1' white with heavy fissures	M6.4	ND	194

Previous Asbestos Sample Results

Table 3

Building Material	Homogeneous Area	2016 ACM Result	Location/Room(s)
Plaster wall system	M7.1	ND	101, 140, 127, 162, 193
Window glazing - brown vinyl	M8.4	ND	146, 149, 155
Ceramic tile - 4"x4" white	M8.5	ND	164, 172, 185
Sink undercoating - white	M10.2	ND	157, 158, 195
Sink undercoating - grey	M10.3	ND	159, 205
Cove base - light brown	M12.1	ND	022
Cove base - beige	M12.2	ND	014
Cove base - black	M12.3	ND	009
Cove base - brown	M12.4	ND	104A, 179, 203
Cove base mastic - white	M12.5	ND	110, 126, 205
Cove base mastic - yellowish brown	M12.6	ND	116
Concrete	M16.1	ND	Boiler room
Concrete - addition	M16.2	ND	016
Concrete - 1989 addition	M16.3	ND	Exterior foundation wall
Brick/mortar	M17.1	ND	Incinerator exterior
Firebrick/mortar	M17.2	ND	Incinerator interior
Red clay block and mortar	M17.3	ND	101, 163, 170
Light brown brick and mortar - exterior	M17.4	ND	122, 154, 192
Concrete block/mortar	M18.1	ND	Boiler room
Fiberglass reinforced plastic	M19.1	ND	002
Ceramic tile - 4"x4" green	M19.1	ND	122, 123, 124
Boiler ribbon gasket	T1.1	ND	Large boiler
Boiler ribbon gasket - white	T1.2	ND	Small boiler
Boiler flange gasket - red	T1.3	ND	Small boiler
Pipe flange gasket - white	T1.4	ND	Small boiler
Flange gasket - red	T1.5	ND	Main water line
Mudded fitting on fiberglass run	T2.2	ND	Boiler room
Fiberglass straight run piping - mechanical	T3.1	Not sampled (non-suspect)	Boiler room
Fiberglass straight run piping - domestic water	T3.2	Not sampled (non-suspect)	Boiler room
Boiler breaching	T7.1	ND	Boiler room
Vibration joint collar - black	T8.1	ND	029
Gray duct sealant	T9.1	ND	016
Red fire stop	T11.1	ND	026

Table 4

Asbestos Wipe Sample Results

Sample ID	Sample Location	Asbestos Minerals Present
Blank		
LMH-WP00	N/A	None
Basement		
LMH-WP01	Near door to east wing crawlspace	**Chrysotile**
LMH-WP02	Near door to west crawlspace	**Chrysotile**
LMH-WP03	Main hallway	**Chrysotile and Amosite**
LMH-WP04	Boiler room	**Chrysotile**
LMH-WP05	Large room in northern addition	**Chrysotile**
Main Level		
LMH-WP06	Room in the south wing	**Chrysotile**
LMH-WP07	Hallway of east wing	**Chrysotile**
LMH-WP08	Hallway of southwest wing	**Chrysotile and Amosite**
LMH-WP09	Room in the west wing	**Chrysotile**
LMH-WP10	Large room in northern additon	**Chrysotile**

Lead-Based Paint Screening Results

Table 5

Date	Time	Building	Room	Component	Substrate	Color	Lead mg/cm^2	(+/-) Error
XRF - Calibration Checks								
4/17/2018	8:50:33	N/A	N/A	N/A	SRM 2570	WHITE	0	0
4/17/2018	9:18:04	N/A	N/A	N/A	SRM 2571	YELLOW	3.51	0.34
4/17/2018	9:18:26	N/A	N/A	N/A	SRM 2572	ORANGE	1.8	0.18
4/17/2018	9:18:55	N/A	N/A	N/A	SRM 2573	RED	1.27	0.13
4/17/2018	9:19:24	N/A	N/A	N/A	SRM 2574	GOLD	0.62	0.08
4/17/2018	9:19:49	N/A	N/A	N/A	SRM 2575	GREEN	0.3	0.05
4/17/2018	13:10:25	N/A	N/A	N/A	SRM 2570	WHITE	0	0
4/17/2018	16:40:33	N/A	N/A	N/A	SRM 2570	WHITE	0	0
4/17/2018	17:36:21	N/A	N/A	N/A	SRM 2570	WHITE	0	0
4/18/2018	8:19:59	N/A	N/A	N/A	SRM 2570	WHITE	0	0
4/18/2018	11:26:35	N/A	N/A	N/A	SRM 2570	WHITE	0	0
4/18/2018	12:29:19	N/A	N/A	N/A	SRM 2570	WHITE	0	0
4/18/2018	14:02:00	N/A	N/A	N/A	SRM 2570	WHITE	0	0
4/18/2018	11:27:03	N/A	N/A	N/A	SRM 2571	YELLOW	3.11	0.3
4/18/2018	8:20:36	N/A	N/A	N/A	SRM 2571	YELLOW	3.24	0.32
4/17/2018	16:41:01	N/A	N/A	N/A	SRM 2571	YELLOW	3.63	0.34
4/17/2018	13:10:55	N/A	N/A	N/A	SRM 2571	YELLOW	3.68	0.35
4/18/2018	14:02:23	N/A	N/A	N/A	SRM 2571	YELLOW	3.76	0.37
4/17/2018	17:36:46	N/A	N/A	N/A	SRM 2571	YELLOW	3.93	0.37
4/18/2018	12:29:53	N/A	N/A	N/A	SRM 2571	YELLOW	4.38	0.42
4/17/2018	16:41:26	N/A	N/A	N/A	SRM 2572	ORANGE	1.47	0.14
4/18/2018	12:30:20	N/A	N/A	N/A	SRM 2572	ORANGE	1.5	0.14
4/17/2018	13:11:28	N/A	N/A	N/A	SRM 2572	ORANGE	1.54	0.15
4/18/2018	14:02:55	N/A	N/A	N/A	SRM 2572	ORANGE	1.58	0.15
4/18/2018	8:21:01	N/A	N/A	N/A	SRM 2572	ORANGE	1.59	0.15
4/18/2018	11:27:26	N/A	N/A	N/A	SRM 2572	ORANGE	1.67	0.14
4/17/2018	17:37:57	N/A	N/A	N/A	SRM 2572	ORANGE	1.84	0.19
4/17/2018	17:38:22	N/A	N/A	N/A	SRM 2573	RED	0.93	0.05
4/17/2018	13:12:07	N/A	N/A	N/A	SRM 2573	RED	1.01	0.05
4/18/2018	11:27:56	N/A	N/A	N/A	SRM 2573	RED	1.04	0.05
4/18/2018	8:21:32	N/A	N/A	N/A	SRM 2573	RED	1.07	0.05
4/17/2018	16:41:50	N/A	N/A	N/A	SRM 2573	RED	1.08	0.05
4/18/2018	14:03:18	N/A	N/A	N/A	SRM 2573	RED	1.08	0.05
4/18/2018	12:30:46	N/A	N/A	N/A	SRM 2573	RED	1.14	0.07
4/17/2018	13:13:02	N/A	N/A	N/A	SRM 2574	GOLD	0.55	0.07
4/18/2018	8:22:26	N/A	N/A	N/A	SRM 2574	GOLD	0.62	0.07
4/17/2018	17:39:14	N/A	N/A	N/A	SRM 2574	GOLD	0.66	0.09
4/18/2018	14:04:13	N/A	N/A	N/A	SRM 2574	GOLD	0.68	0.09
4/18/2018	11:28:50	N/A	N/A	N/A	SRM 2574	GOLD	0.69	0.09
4/17/2018	16:42:45	N/A	N/A	N/A	SRM 2574	GOLD	0.74	0.09
4/18/2018	12:31:34	N/A	N/A	N/A	SRM 2574	GOLD	0.79	0.09
4/18/2018	8:22:52	N/A	N/A	N/A	SRM 2575	GREEN	0.24	0.05
4/17/2018	13:13:31	N/A	N/A	N/A	SRM 2575	GREEN	0.29	0.05
4/17/2018	16:43:12	N/A	N/A	N/A	SRM 2575	GREEN	0.31	0.06
4/18/2018	12:32:06	N/A	N/A	N/A	SRM 2575	GREEN	0.31	0.06
4/17/2018	17:40:12	N/A	N/A	N/A	SRM 2575	GREEN	0.34	0.06
4/18/2018	11:29:15	N/A	N/A	N/A	SRM 2575	GREEN	0.35	0.06
4/18/2018	14:04:42	N/A	N/A	N/A	SRM 2575	GREEN	0.37	0.06
Hospital Building - Screening Results								
4/17/2018	11:37:49	Basement	Room 001	FLOOR	CONCRETE	GRAY	0.08	0.02
4/17/2018	**11:36:23**	**Basement**	**Room 001**	**WALL**	**DRYWALL**	**BROWN**	**1**	**0.04**
4/17/2018	**11:37:02**	**Basement**	**Room 001**	**WALL**	**CONCRETE**	**WHITE**	**1**	**0.06**
4/17/2018	11:28:56	Basement	Room 002	WALL	DRYWALL	WHITE	0	0
4/17/2018	11:29:13	Basement	Room 002	WALL	DRYWALL	WHITE	0	0
4/17/2018	11:29:39	Basement	Room 002	BUILT-IN	WOOD	WHITE	0	0
4/17/2018	11:27:59	Basement	Room 002	WALL	DRYWALL	WHITE	0.01	0.02
4/17/2018	11:27:35	Basement	Room 002	WALL	DRYWALL	WHITE	0.02	0.03
4/17/2018	11:28:20	Basement	Room 002	WALL	DRYWALL	WHITE	0.03	0.04
4/17/2018	11:33:40	Basement	Room 002	WALL	DRYWALL	WHITE	0.04	0.04

Lead-Based Paint Screening Results

Table 5

Date	Time	Building	Room	Component	Substrate	Color	Lead mg/cm^2	(+/-) Error
4/17/2018	11:19:09	Basement	Room 002	BUILT-IN	DRYWALL	WHITE	0.06	0.03
4/17/2018	11:26:20	Basement	Room 002	WALL	DRYWALL	WHITE	0.06	0.06
4/17/2018	11:16:16	Basement	Room 002	WALL	DRYWALL	WHITE	0.08	0.03
4/17/2018	11:25:53	Basement	Room 002	BUILT-IN	WOOD	WHITE	0.08	0.03
4/17/2018	11:30:29	Basement	Room 002	FLOOR	CONCRETE	GRAY	0.08	0.02
4/17/2018	11:29:59	Basement	Room 002	BUILT-IN	WOOD	WHITE	0.12	0.04
4/17/2018	11:35:45	Basement	Room 002	CEILING	DRYWALL	WHITE	0.12	0.05
4/17/2018	11:26:41	Basement	Room 002	WALL	DRYWALL	WHITE	0.16	0.15
4/17/2018	**11:15:23**	**Basement**	**Room 002**	**WALL**	**DRYWALL**	**WHITE**	**1**	**0.04**
4/17/2018	**11:15:54**	**Basement**	**Room 002**	**WALL**	**DRYWALL**	**WHITE**	**1**	**0.16**
4/17/2018	**11:27:01**	**Basement**	**Room 002**	**WALL**	**DRYWALL**	**WHITE**	**1**	**0.07**
4/17/2018	11:11:36	Basement	Room 003	WALL	DRYWALL	WHITE	0	0
4/17/2018	11:12:43	Basement	Room 003	CEILING	DRYWALL	WHITE	0	0
4/17/2018	11:12:15	Basement	Room 003	WALL	DRYWALL	WHITE	0.09	0.04
4/17/2018	11:11:56	Basement	Room 003	WALL	DRYWALL	WHITE	0.1	0.04
4/17/2018	11:04:29	Basement	Room 004	WALL	PLASTER	YELLOW	0	0
4/17/2018	11:06:49	Basement	Room 004	WALL	PLASTER	GREEN	0	0
4/17/2018	11:05:26	Basement	Room 004	WALL	PLASTER	BROWN	0.23	0.07
4/17/2018	11:04:10	Basement	Room 004	WALL	PLASTER	YELLOW	0.26	0.07
4/17/2018	11:04:58	Basement	Room 004	WALL	PLASTER	BROWN	0.28	0.09
4/17/2018	**11:03:28**	**Basement**	**Room 004**	**CEILING**	**PLASTER**	**WHITE**	**1**	**0.03**
4/17/2018	**11:06:07**	**Basement**	**Room 004**	**CEILING**	**PLASTER**	**GREEN**	**1**	**0.05**
4/17/2018	9:37:43	Basement	Room 005	WALL	PLASTER	WHITE	0	0
4/17/2018	9:38:19	Basement	Room 005	WALL	DRYWALL	WHITE	0	0
4/17/2018	9:39:56	Basement	Room 005	CEILING	DRYWALL	WHITE	0	0
4/17/2018	10:02:47	Basement	Room 005	DOOR FRAME	METAL	CREAM	0	0
4/17/2018	9:41:05	Basement	Room 005	CEILING	DRYWALL	WHITE	0.13	0.04
4/17/2018	9:37:21	Basement	Room 005	WALL	PLASTER	WHITE	0.16	0.06
4/17/2018	**9:36:30**	**Basement**	**Room 005**	**FLOOR**	**CONCRETE**	**GRAY**	**1**	**0.02**
4/17/2018	9:43:35	Basement	Room 006	WALL	DRYWALL	WHITE	0.09	0.03
4/17/2018	9:45:21	Basement	Room 006	WALL	DRYWALL	WHITE	0.23	0.08
4/17/2018	**9:42:48**	**Basement**	**Room 006**	**CEILING**	**DRYWALL**	**WHITE**	**1**	**0.15**
4/17/2018	**9:43:56**	**Basement**	**Room 006**	**WALL**	**DRYWALL**	**WHITE**	**1**	**0.05**
4/17/2018	**9:44:52**	**Basement**	**Room 006**	**WALL**	**DRYWALL**	**WHITE**	**1**	**0.05**
4/17/2018	11:43:57	Basement	Room 007	WALL	DRYWALL	WHITE	0	0
4/17/2018	11:45:04	Basement	Room 007	CEILING	DRYWALL	WHITE	0	0
4/17/2018	11:43:34	Basement	Room 007	WALL	DRYWALL	WHITE	0.15	0.04
4/17/2018	11:44:32	Basement	Room 007	DOOR	METAL	RED	0.26	0.05
4/17/2018	9:31:22	Basement	Room 008	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:02:22	Basement	Room 008	DOOR FRAME	METAL	CREAM	0	0
4/17/2018	9:34:30	Basement	Room 008	FLOOR	CONCRETE	GRAY	0.07	0.01
4/17/2018	9:30:22	Basement	Room 008	WALL	PLASTER	WHITE	0.14	0.04
4/17/2018	9:30:53	Basement	Room 008	WALL	PLASTER	WHITE	0.16	0.05
4/17/2018	9:32:00	Basement	Room 008	WALL	DRYWALL	WHITE	0.21	0.06
4/17/2018	**9:33:05**	**Basement**	**Room 008**	**CEILING**	**DRYWALL**	**WHITE**	**1**	**0.06**
4/17/2018	**9:33:26**	**Basement**	**Room 008**	**CEILING**	**DRYWALL**	**WHITE**	**1**	**0.06**
4/17/2018	9:49:43	Basement	Room 009	CEILING	DRYWALL	WHITE	0	0
4/17/2018	9:51:18	Basement	Room 009	WALL	DRYWALL	WHITE	0.07	0.03
4/17/2018	9:51:31	Basement	Room 009	WALL	DRYWALL	WHITE	0.09	0.03
4/17/2018	9:47:50	Basement	Room 009	WALL	DRYWALL	WHITE	0.12	0.05
4/17/2018	9:52:14	Basement	Room 009	WALL	DRYWALL	LT BLUE	0.12	0.04
4/17/2018	9:52:47	Basement	Room 009	WALL	DRYWALL	LT BLUE	0.12	0.04
4/17/2018	9:52:30	Basement	Room 009	WALL	DRYWALL	LT BLUE	0.35	0.13
4/17/2018	**9:47:14**	**Basement**	**Room 009**	**WALL**	**DRYWALL**	**WHITE**	**1**	**0.04**
4/17/2018	**9:47:33**	**Basement**	**Room 009**	**WALL**	**DRYWALL**	**WHITE**	**1**	**0.03**
4/17/2018	**9:48:11**	**Basement**	**Room 009**	**WALL**	**DRYWALL**	**WHITE**	**1**	**0.03**
4/17/2018	**9:48:39**	**Basement**	**Room 009**	**CEILING**	**DRYWALL**	**WHITE**	**1**	**0.07**
4/17/2018	**9:50:21**	**Basement**	**Room 009**	**CEILING**	**DRYWALL**	**WHITE**	**1**	**0.1**
4/17/2018	**9:50:51**	**Basement**	**Room 009**	**WALL**	**DRYWALL**	**WHITE**	**1**	**0.08**
4/17/2018	**9:51:46**	**Basement**	**Room 009**	**WALL**	**DRYWALL**	**WHITE**	**1**	**0.06**

Lead-Based Paint Screening Results

Table 5

Date	Time	Building	Room	Component	Substrate	Color	Lead mg/cm^2	(+/-) Error
4/17/2018	**9:53:04**	**Basement**	**Room 009**	**WALL**	**DRYWALL**	**LT BLUE**	**1**	**0.04**
4/17/2018	9:54:54	Basement	Room 010	WALL	DRYWALL	WHITE	0	0
4/17/2018	9:55:11	Basement	Room 010	WALL	DRYWALL	WHITE	0	0
4/17/2018	9:55:25	Basement	Room 010	WALL	DRYWALL	WHITE	0	0
4/17/2018	9:56:08	Basement	Room 010	WALL	DRYWALL	PINK	0	0
4/17/2018	9:56:34	Basement	Room 010	CEILING	DRYWALL	WHITE	0	0
4/17/2018	9:54:40	Basement	Room 010	WALL	DRYWALL	WHITE	0.11	0.04
4/17/2018	9:57:40	Basement	Room 011	WALL	DRYWALL	WHITE	0	0
4/17/2018	9:58:37	Basement	Room 011	WALL	DRYWALL	WHITE	0.12	0.04
4/17/2018	9:57:16	Basement	Room 011	CEILING	DRYWALL	WHITE	0.25	0.07
4/17/2018	**9:58:18**	**Basement**	**Room 011**	**WALL**	**DRYWALL**	**WHITE**	**1**	**0.03**
4/17/2018	10:00:23	Basement	Room 012	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:01:07	Basement	Room 012	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:03:42	Basement	Room 012	DOOR FRAME	METAL	CREAM	0	0
4/17/2018	10:01:32	Basement	Room 012	WALL	CONCRETE	WHITE	0.01	0.01
4/17/2018	10:00:48	Basement	Room 012	WALL	DRYWALL	WHITE	0.02	0.02
4/17/2018	10:55:56	Basement	Jan	CEILING	DRYWALL	WHITE	0.01	0.01
4/17/2018	10:54:29	Basement	Jan	WALL	CONCRETE	WHITE	0.02	0.02
4/17/2018	10:54:10	Basement	Jan	WALL	CONCRETE	WHITE	0.07	0.07
4/17/2018	10:57:01	Basement	Jan	FLOOR	CONCRETE	GRAY	0.07	0.02
4/17/2018	10:59:59	Basement	Jan	WALL	CONCRETE	WHITE	0.14	0.07
4/17/2018	**10:54:50**	**Basement**	**Jan**	**WALL**	**CONCRETE**	**WHITE**	**1**	**0.06**
4/17/2018	**10:55:15**	**Basement**	**Jan**	**WALL**	**CONCRETE**	**WHITE**	**1**	**0.02**
4/17/2018	**10:58:27**	**Basement**	**Jan**	**FLOOR**	**CONCRETE**	**GRAY**	**1**	**0.04**
4/17/2018	**10:59:08**	**Basement**	**Jan**	**WALL**	**CONCRETE**	**WHITE**	**1**	**0.06**
4/17/2018	**10:59:36**	**Basement**	**Jan**	**WALL**	**CONCRETE**	**WHITE**	**1**	**0.05**
4/17/2018	**11:00:23**	**Basement**	**Jan**	**CEILING**	**CONCRETE**	**WHITE**	**1**	**0.07**
4/17/2018	10:04:55	Basement	Room 014	DOOR FRAME	METAL	CREAM	0	0
4/17/2018	10:05:23	Basement	Room 014	DOOR FRAME	METAL	CREAM	0	0
4/17/2018	10:05:40	Basement	Room 014	DOOR FRAME	METAL	CREAM	0	0
4/17/2018	10:06:12	Basement	Room 014	DOOR FRAME	METAL	CREAM	0	0
4/17/2018	10:07:17	Basement	Room 014	DOOR FRAME	METAL	CREAM	0	0
4/17/2018	10:07:40	Basement	Room 014	DOOR FRAME	METAL	CREAM	0	0
4/17/2018	10:08:04	Basement	Room 014	DOOR FRAME	METAL	CREAM	0	0
4/17/2018	10:08:45	Basement	Room 014	DOOR	METAL	CREAM	0	0
4/17/2018	10:09:22	Basement	Room 014	DOOR	METAL	CREAM	0	0
4/17/2018	10:09:39	Basement	Room 014	DOOR	METAL	CREAM	0	0
4/17/2018	10:10:04	Basement	Room 014	DOOR	METAL	CREAM	0	0
4/17/2018	10:10:26	Basement	Room 014	DOOR	METAL	CREAM	0	0
4/17/2018	10:11:12	Basement	Room 014	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:11:34	Basement	Room 014	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:11:58	Basement	Room 014	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:12:19	Basement	Room 014	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:12:47	Basement	Room 014	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:13:14	Basement	Room 014	BUILT-IN	DRYWALL	WHITE	0	0
4/17/2018	10:13:46	Basement	Room 014	FLOOR	CONCRETE	GRAY	0	0
4/17/2018	10:24:01	Basement	Room 014	FLOOR	CONCRETE	GRAY	0	0
4/17/2018	10:24:26	Basement	Room 014	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:24:45	Basement	Room 014	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:25:02	Basement	Room 014	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:25:17	Basement	Room 014	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:25:45	Basement	Room 014	DOOR FRAME	METAL	CREAM	0	0
4/17/2018	10:26:07	Basement	Room 014	DOOR	METAL	CREAM	0	0
4/17/2018	10:26:45	Basement	Room 014	DOOR	METAL	DK BLUE	0	0
4/17/2018	10:27:09	Basement	Room 014	WALL	METAL	DK BROWN	0	0
4/17/2018	10:27:52	Basement	Room 014	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	10:28:28	Basement	Room 014	DOOR FRAME	METAL	CREAM	0	0
4/17/2018	10:28:50	Basement	Room 014	DOOR	METAL	CREAM	0	0
4/17/2018	10:29:20	Basement	Room 014	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:29:42	Basement	Room 014	WALL	DRYWALL	WHITE	0	0

Lead-Based Paint Screening Results

Table 5

Date	Time	Building	Room	Component	Substrate	Color	Lead mg/cm^2	(+/-) Error
4/17/2018	10:30:08	Basement	Room 014	BUILT-IN	METAL	WHITE	0	0
4/17/2018	10:30:27	Basement	Room 014	BUILT-IN	METAL	WHITE	0	0
4/17/2018	10:30:55	Basement	Room 014	WALL	CONCRETE	WHITE	0	0
4/17/2018	10:32:34	Basement	Room 015	WALL	CONCRETE	WHITE	0	0
4/17/2018	10:32:56	Basement	Room 015	WALL	CONCRETE	WHITE	0	0
4/17/2018	10:33:19	Basement	Room 015	WALL	CONCRETE	WHITE	0	0
4/17/2018	10:33:39	Basement	Room 015	WALL	CONCRETE	WHITE	0	0
4/17/2018	10:34:08	Basement	Room 015	CEILING	METAL	WHITE	0	0
4/17/2018	10:34:42	Basement	Room 015	FLOOR	CONCRETE	GRAY	0	0
4/17/2018	10:35:11	Basement	Room 015	DOOR FRAME	METAL	CREAM	0	0
4/17/2018	10:35:37	Basement	Room 015	DOOR	METAL	CREAM	0	0
4/17/2018	10:36:54	Basement	Room 015	CEILING	DRYWALL	WHITE	0	0
4/17/2018	10:37:22	Basement	Room 015	WALL	CONCRETE	WHITE	0	0
4/17/2018	10:37:39	Basement	Room 015	WALL	CONCRETE	WHITE	0	0
4/17/2018	10:38:32	Basement	Room 015	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:38:54	Basement	Room 015	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:39:25	Basement	Room 015	FLOOR	CONCRETE	GRAY	0	0
4/17/2018	10:40:43	Basement	Room 016	FLOOR	CONCRETE	GRAY	0	0
4/17/2018	10:41:26	Basement	Room 016	WALL	CONCRETE	WHITE	0	0
4/17/2018	10:41:43	Basement	Room 016	WALL	CONCRETE	WHITE	0	0
4/17/2018	10:42:01	Basement	Room 016	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:42:19	Basement	Room 016	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:43:31	Basement	Room 016	CEILING	DRYWALL	WHITE	0	0
4/17/2018	10:44:03	Basement	Room 016	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:44:21	Basement	Room 016	WALL	DRYWALL	WHITE	0	0
4/17/2018	10:44:42	Basement	Room 016	WALL	CONCRETE	WHITE	0	0
4/17/2018	10:45:30	Basement	Room 016	DOOR FRAME	METAL	CREAM	0	0
4/17/2018	10:45:54	Basement	Room 016	DOOR	METAL	CREAM	0	0
4/17/2018	11:52:42	Basement	Room 017	WALL	DRYWALL	WHITE	0	0
4/17/2018	11:53:14	Basement	Room 017	WALL	DRYWALL	WHITE	0	0
4/17/2018	11:53:42	Basement	Room 017	WALL	DRYWALL	GREEN	0	0
4/17/2018	11:51:37	Basement	Room 018	WALL	DRYWALL	WHITE	0	0
4/17/2018	11:51:54	Basement	Room 018	WALL	DRYWALL	WHITE	0	0
4/17/2018	11:52:13	Basement	Room 018	WALL	DRYWALL	WHITE	0	0
4/17/2018	11:45:33	Basement	Room 019	BUILT-IN	METAL	WHITE	0	0
4/17/2018	11:46:03	Basement	Room 019	WALL	DRYWALL	WHITE	0	0
4/17/2018	11:46:28	Basement	Room 019	WALL	DRYWALL	WHITE	0	0
4/17/2018	11:46:57	Basement	Room 019	WALL	DRYWALL	WHITE	0	0
4/17/2018	11:47:18	Basement	Room 020	WALL	DRYWALL	WHITE	0	0
4/17/2018	11:48:17	Basement	Room 020	DOOR	METAL	BROWN	0	0
4/17/2018	11:47:45	Basement	Room 020	CEILING	DRYWALL	WHITE	0.14	0.05
4/17/2018	12:14:25	Basement	Room 021	WALL	DRYWALL	WHITE	0	0
4/17/2018	12:14:44	Basement	Room 021	WALL	DRYWALL	WHITE	0	0
4/17/2018	12:15:01	Basement	Room 021	WALL	DRYWALL	WHITE	0	0
4/17/2018	12:16:04	Basement	Room 021	WALL	DRYWALL	RED	0	0
4/17/2018	12:15:33	Basement	Room 021	WALL	DRYWALL	WHITE	0.1	0.05
4/17/2018	12:13:52	Basement	Room 021	WALL	PLASTER	YELLOW	0.27	0.11
4/17/2018	**12:16:30**	**Basement**	**Room 021**	**WALL**	**DRYWALL**	**GREEN**	**1**	**0.09**
4/17/2018	11:58:26	Basement	Room 022	WALL	DRYWALL	GREEN	0	0
4/17/2018	11:58:43	Basement	Room 022	WALL	DRYWALL	GREEN	0	0
4/17/2018	11:58:58	Basement	Room 022	WALL	DRYWALL	GREEN	0	0
4/17/2018	11:59:15	Basement	Room 022	WALL	DRYWALL	GREEN	0	0
4/17/2018	11:54:59	Basement	Room 023	WALL	DRYWALL	LT BLUE	0	0.01
4/17/2018	11:55:12	Basement	Room 023	WALL	DRYWALL	LT BLUE	0.01	0.02
4/17/2018	11:54:41	Basement	Room 023	WALL	DRYWALL	LT BLUE	0.06	0.07
4/17/2018	12:01:55	Basement	Room 024	WALL	DRYWALL	WHITE	0	0
4/17/2018	12:02:32	Basement	Room 024	WALL	DRYWALL	WHITE	0	0
4/17/2018	12:02:48	Basement	Room 024	WALL	DRYWALL	WHITE	0	0
4/17/2018	12:03:07	Basement	Room 024	WALL	DRYWALL	WHITE	0	0
4/17/2018	12:03:25	Basement	Room 024	WALL	DRYWALL	WHITE	0	0

Lead-Based Paint Screening Results

Table 5

Date	Time	Building	Room	Component	Substrate	Color	Lead mg/cm^2	(+/-) Error
4/17/2018	12:03:43	Basement	Room 024	WALL	DRYWALL	WHITE	0	0
4/17/2018	12:04:18	Basement	Room 024	WALL	DRYWALL	WHITE	0	0
4/17/2018	12:04:01	Basement	Room 024	WALL	DRYWALL	WHITE	0.06	0.03
4/17/2018	12:02:11	Basement	Room 024	WALL	DRYWALL	WHITE	0.16	0.05
4/17/2018	12:09:40	Basement	Room 025	WALL	CONCRETE	WHITE	0	0
4/17/2018	12:08:54	Basement	Room 025	WALL	DRYWALL	WHITE	0.06	0.04
4/17/2018	12:10:28	Basement	Room 025	FLOOR	CONCRETE	GRAY	0.07	0.04
4/17/2018	**12:09:21**	**Basement**	**Room 025**	**WALL**	**CONCRETE**	**WHITE**	**1**	**0.06**
4/17/2018	**12:09:57**	**Basement**	**Room 025**	**WALL**	**CONCRETE**	**WHITE**	**1**	**0.05**
4/17/2018	12:11:41	Basement	Room 026	FLOOR	CONCRETE	GRAY	0	0
4/17/2018	12:12:09	Basement	Room 026	WALL	CONCRETE	WHITE	0	0
4/17/2018	12:12:26	Basement	Room 026	WALL	CONCRETE	WHITE	0	0
4/17/2018	12:12:45	Basement	Room 026	WALL	CONCRETE	WHITE	0	0
4/17/2018	12:13:07	Basement	Room 026	WALL	DRYWALL	WHITE	0	0
4/17/2018	11:41:10	Basement	Room 027	WALL	CONCRETE	WHITE	0.05	0.04
4/17/2018	11:39:57	Basement	Room 027	WALL	CONCRETE	WHITE	0.08	0.04
4/17/2018	11:40:22	Basement	Room 027	WALL	CONCRETE	WHITE	0.17	0.06
4/17/2018	**11:40:45**	**Basement**	**Room 027**	**WALL**	**CONCRETE**	**WHITE**	**1**	**0.14**
4/17/2018	11:09:28	Basement	Room 030	DOOR FRAME	WOOD	WHITE	0	0
4/17/2018	11:08:50	Basement	Room 030	CEILING	PLASTER	WHITE	0.06	0.03
4/17/2018	**11:07:20**	**Basement**	**Room 030**	**WALL**	**PLASTER**	**BLUE**	**1**	**0.03**
4/17/2018	**11:07:40**	**Basement**	**Room 030**	**WALL**	**PLASTER**	**BLUE**	**1**	**0.04**
4/17/2018	12:17:24	Basement	Boiler Room	WALL	CONCRETE	WHITE	0	0
4/17/2018	12:18:10	Basement	Boiler Room	WALL	CONCRETE	WHITE	0	0
4/17/2018	12:18:51	Basement	Boiler Room	WALL	CONCRETE	WHITE	0	0
4/17/2018	12:19:30	Basement	Boiler Room	TRIM	CONCRETE	YELLOW	0	0
4/17/2018	12:20:00	Basement	Boiler Room	TRIM	CONCRETE	LT BLUE	0	0
4/17/2018	12:25:47	Basement	Boiler Room	FLOOR	CONCRETE	GRAY	0	0
4/17/2018	12:22:57	Basement	Boiler Room	DOOR FRAME	METAL	GRAY	0.02	0.01
4/17/2018	12:23:19	Basement	Boiler Room	DOOR	METAL	GRAY	0.02	0.01
4/17/2018	12:22:17	Basement	Boiler Room	DOOR FRAME	METAL	WHITE	0.19	0.05
4/17/2018	**12:24:06**	**Basement**	**Boiler Room**	**WALL**	**CONCRETE**	**GRAY**	**1**	**0.04**
4/17/2018	**12:25:14**	**Basement**	**Boiler Room**	**WALL**	**CONCRETE**	**GRAY**	**1**	**0.02**
4/17/2018	**12:21:46**	**Basement**	**Boiler Room**	**DOOR**	**METAL**	**GRAY**	**3.77**	**0.36**
4/18/2018	8:35:35	Main Floor	Room 100	WALL	PLASTER	GREEN	0.33	0.07
4/18/2018	8:34:37	Main Floor	Room 100	WALL	PLASTER	WHITE	0.4	0.09
4/18/2018	**8:35:00**	**Main Floor**	**Room 100**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.12**
4/18/2018	**8:35:55**	**Main Floor**	**Room 100**	**WALL**	**PLASTER**	**GREEN**	**1**	**0.09**
4/18/2018	9:27:05	Main Floor	Room 101	WALL	PLASTER	WHITE	0	0
4/18/2018	9:27:25	Main Floor	Room 101	WALL	PLASTER	WHITE	0	0
4/18/2018	9:28:13	Main Floor	Room 101	WALL	PLASTER	WHITE	0	0
4/18/2018	9:24:31	Main Floor	Room 101	WALL	PLASTER	WHITE	0.19	0.25
4/18/2018	9:25:00	Main Floor	Room 101	WALL	PLASTER	BLUE	0.31	0.16
4/18/2018	9:27:53	Main Floor	Room 101	WALL	PLASTER	WHITE	0.32	0.1
4/18/2018	9:25:29	Main Floor	Room 101	WALL	PLASTER	BLUE	0.43	0.16
4/18/2018	9:24:14	Main Floor	Room 101	WALL	PLASTER	WHITE	0.45	0.14
4/18/2018	**9:25:52**	**Main Floor**	**Room 101**	**WALL**	**PLASTER**	**YELLOW**	**1**	**0.06**
4/18/2018	8:38:11	Main Floor	Room 102	WALL	PLASTER	WHITE	0	0
4/18/2018	8:38:28	Main Floor	Room 102	WALL	PLASTER	WHITE	0	0
4/18/2018	8:39:20	Main Floor	Room 102	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	8:37:45	Main Floor	Room 102	WALL	PLASTER	GRAY	0.08	0.05
4/18/2018	8:37:28	Main Floor	Room 102	WALL	PLASTER	GRAY	0.13	0.09
4/18/2018	8:39:50	Main Floor	Room 103	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	8:40:34	Main Floor	Room 103	WALL	PLASTER	PINK	0	0
4/18/2018	8:40:50	Main Floor	Room 103	WALL	PLASTER	PINK	0	0
4/18/2018	8:41:07	Main Floor	Room 103	WALL	PLASTER	PINK	0	0
4/18/2018	8:41:21	Main Floor	Room 103	WALL	PLASTER	PINK	0	0
4/18/2018	8:42:14	Main Floor	Room 104	WALL	PLASTER	CORAL	0	0
4/18/2018	8:42:47	Main Floor	Room 104	WALL	PLASTER	WHITE	0	0
4/18/2018	8:44:46	Main Floor	Room 104	WALL	PLASTER	BROWN	0	0

Lead-Based Paint Screening Results

Table 5

Date	Time	Building	Room	Component	Substrate	Color	Lead mg/cm^2	(+/-) Error
4/18/2018	8:45:05	Main Floor	Room 104	WALL	PLASTER	BROWN	0	0
4/18/2018	8:45:27	Main Floor	Room 104	WALL	PLASTER	WHITE	0	0
4/18/2018	8:45:58	Main Floor	Room 104	DOOR FRAME	WOOD	WHITE	0	0
4/18/2018	8:46:23	Main Floor	Room 104	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	8:43:37	Main Floor	Room 104	WALL	PLASTER	WHITE	0.03	0.02
4/18/2018	8:43:05	Main Floor	Room 104	WALL	PLASTER	WHITE	0.06	0.03
4/18/2018	8:43:19	Main Floor	Room 104	WALL	PLASTER	WHITE	0.07	0.03
4/18/2018	**8:44:08**	**Main Floor**	**Room 104**	**CEILING**	**PLASTER**	**WHITE**	**1**	**0.03**
4/18/2018	8:47:35	Main Floor	Room 105	DOOR FRAME	METAL	LT BLUE	0	0
4/18/2018	8:48:16	Main Floor	Room 105	WALL	PLASTER	LT BLUE	0	0
4/18/2018	8:48:34	Main Floor	Room 105	WALL	PLASTER	LT BLUE	0	0
4/18/2018	8:49:00	Main Floor	Room 105	WALL	PLASTER	WHITE	0	0
4/18/2018	8:48:00	Main Floor	Room 105	WALL	PLASTER	LT BLUE	0.23	0.07
4/18/2018	8:50:51	Main Floor	Room 106	WALL	PLASTER	WHITE	0	0
4/18/2018	8:51:57	Main Floor	Room 106	WALL	PLASTER	WHITE	0	0
4/18/2018	8:52:27	Main Floor	Room 106	WALL	PLASTER	WHITE	0	0
4/18/2018	8:53:18	Main Floor	Room 106	WALL	PLASTER	WHITE	0	0
4/18/2018	8:53:59	Main Floor	Room 106	WALL	PLASTER	WHITE	0	0
4/18/2018	8:54:16	Main Floor	Room 106	WALL	PLASTER	WHITE	0	0
4/18/2018	8:55:40	Main Floor	Room 106	CEILING	PLASTER	WHITE	0	0
4/18/2018	8:52:58	Main Floor	Room 106	WALL	PLASTER	WHITE	0.14	0.06
4/18/2018	**8:51:19**	**Main Floor**	**Room 106**	**WALL**	**PLASTER**	**GREEN**	**1**	**0.03**
4/18/2018	**8:54:34**	**Main Floor**	**Room 106**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.04**
4/18/2018	9:00:49	Main Floor	Room 107	WALL	PLASTER	WHITE	0	0
4/18/2018	9:01:07	Main Floor	Room 107	WALL	PLASTER	WHITE	0	0
4/18/2018	9:01:23	Main Floor	Room 107	WALL	PLASTER	WHITE	0	0
4/18/2018	9:02:29	Main Floor	Room 107	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	9:00:11	Main Floor	Room 107	WALL	PLASTER	WHITE	0.04	0.05
4/18/2018	8:59:25	Main Floor	Room 107	WALL	PLASTER	DK BLUE	0.08	0.06
4/18/2018	9:00:30	Main Floor	Room 107	WALL	PLASTER	WHITE	0.16	0.05
4/18/2018	9:01:48	Main Floor	Room 107	WALL	PLASTER	WHITE	0.18	0.09
4/18/2018	8:59:51	Main Floor	Room 107	WALL	PLASTER	WHITE	0.2	0.12
4/18/2018	9:07:34	Main Floor	Room 108	WALL	PLASTER	LT BLUE	0	0
4/18/2018	9:07:54	Main Floor	Room 108	WALL	PLASTER	LT BLUE	0	0
4/18/2018	9:08:14	Main Floor	Room 108	WALL	PLASTER	LT BLUE	0	0
4/18/2018	9:08:38	Main Floor	Room 108	WALL	PLASTER	WHITE	0	0
4/18/2018	9:08:59	Main Floor	Room 108	WALL	PLASTER	LT BLUE	0	0
4/18/2018	9:11:18	Main Floor	Room 108	WALL	PLASTER	WHITE	0	0
4/18/2018	9:11:35	Main Floor	Room 108	WALL	PLASTER	WHITE	0	0
4/18/2018	9:06:59	Main Floor	Room 108	DOOR FRAME	METAL	WHITE	0.05	0.07
4/18/2018	9:20:21	Main Floor	Room 109	WALL	PLASTER	WHITE	0	0
4/18/2018	9:17:54	Main Floor	Room 109	WALL	PLASTER	WHITE	0.15	0.07
4/18/2018	9:18:23	Main Floor	Room 109	WALL	PLASTER	WHITE	0.19	0.07
4/18/2018	9:20:03	Main Floor	Room 109	WALL	PLASTER	WHITE	0.24	0.09
4/18/2018	9:19:25	Main Floor	Room 109	WALL	PLASTER	WHITE	0.25	0.13
4/18/2018	**9:18:38**	**Main Floor**	**Room 109**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.06**
4/18/2018	**9:19:02**	**Main Floor**	**Room 109**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.07**
4/18/2018	**9:19:43**	**Main Floor**	**Room 109**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.02**
4/18/2018	9:14:35	Main Floor	Room 109a	WALL	PLASTER	WHITE	0	0
4/18/2018	9:14:52	Main Floor	Room 109a	WALL	PLASTER	WHITE	0	0
4/18/2018	9:15:07	Main Floor	Room 109a	WALL	PLASTER	WHITE	0	0
4/18/2018	9:15:23	Main Floor	Room 109a	WALL	PLASTER	WHITE	0	0
4/18/2018	9:15:52	Main Floor	Room 109a	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	9:16:16	Main Floor	Room 109a	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	9:29:23	Main Floor	Room 110	WALL	PLASTER	WHITE	0	0
4/18/2018	9:29:41	Main Floor	Room 110	WALL	PLASTER	WHITE	0	0
4/18/2018	9:30:03	Main Floor	Room 110	WALL	PLASTER	WHITE	0	0
4/18/2018	9:30:21	Main Floor	Room 110	WALL	PLASTER	WHITE	0	0
4/18/2018	9:51:21	Main Floor	Room 110a	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	9:51:58	Main Floor	Room 110a	WALL	PLASTER	BROWN	0	0

Lead-Based Paint Screening Results

Table 5

Date	Time	Building	Room	Component	Substrate	Color	Lead mg/cm^2	(+/-) Error
4/18/2018	9:31:23	Main Floor	Room 111	WALL	PLASTER	WHITE	0	0
4/18/2018	9:31:41	Main Floor	Room 111	WALL	PLASTER	WHITE	0	0
4/18/2018	9:31:58	Main Floor	Room 111	WALL	PLASTER	WHITE	0	0
4/18/2018	9:32:18	Main Floor	Room 111	WALL	PLASTER	WHITE	0	0
4/18/2018	9:37:28	Main Floor	Room 112	WALL	PLASTER	WHITE	0	0
4/18/2018	9:37:46	Main Floor	Room 112	WALL	PLASTER	WHITE	0	0
4/18/2018	9:38:11	Main Floor	Room 112	WALL	PLASTER	WHITE	0	0
4/18/2018	9:38:28	Main Floor	Room 112	WALL	PLASTER	WHITE	0	0
4/18/2018	9:39:01	Main Floor	Room 112	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	9:39:54	Main Floor	Room 113	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	9:40:12	Main Floor	Room 113	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	9:40:33	Main Floor	Room 113	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	9:41:05	Main Floor	Room 113	WALL	PLASTER	WHITE	0	0
4/18/2018	9:41:39	Main Floor	Room 113	WALL	PLASTER	WHITE	0	0
4/18/2018	9:42:23	Main Floor	Room 113	WALL	PLASTER	WHITE	0	0
4/18/2018	9:42:41	Main Floor	Room 113	WALL	PLASTER	WHITE	0	0
4/18/2018	9:41:23	Main Floor	Room 113	WALL	PLASTER	WHITE	0.19	0.07
4/18/2018	9:44:46	Main Floor	Room 114	WALL	PLASTER	WHITE	0	0
4/18/2018	9:45:08	Main Floor	Room 114	WALL	PLASTER	WHITE	0	0
4/18/2018	9:45:25	Main Floor	Room 114	WALL	PLASTER	WHITE	0	0
4/18/2018	9:45:42	Main Floor	Room 114	WALL	PLASTER	WHITE	0	0
4/18/2018	9:46:39	Main Floor	Room 115	WALL	PLASTER	WHITE	0	0
4/18/2018	9:46:56	Main Floor	Room 115	WALL	PLASTER	WHITE	0	0
4/18/2018	9:47:14	Main Floor	Room 115	WALL	PLASTER	WHITE	0	0
4/18/2018	9:48:00	Main Floor	Room 116	WALL	PLASTER	BROWN	0	0
4/18/2018	9:48:18	Main Floor	Room 116	WALL	PLASTER	BROWN	0	0
4/18/2018	9:48:29	Main Floor	Room 116	WALL	PLASTER	BROWN	0	0
4/18/2018	9:48:50	Main Floor	Room 116	WALL	PLASTER	WHITE	0	0
4/18/2018	9:49:20	Main Floor	Room 116	DOOR FRAME	METAL	BROWN	0	0
4/18/2018	9:53:46	Main Floor	Room 117	WALL	PLASTER	WHITE	0	0
4/18/2018	9:54:28	Main Floor	Room 117	WALL	PLASTER	WHITE	0	0
4/18/2018	9:55:33	Main Floor	Room 118	WALL	PLASTER	CREAM	0	0
4/18/2018	9:55:50	Main Floor	Room 118	WALL	PLASTER	CREAM	0	0
4/18/2018	9:56:07	Main Floor	Room 118	WALL	PLASTER	CREAM	0	0
4/18/2018	9:56:30	Main Floor	Room 118	WALL	PLASTER	CREAM	0	0
4/18/2018	9:56:43	Main Floor	Room 118	WALL	PLASTER	CREAM	0	0
4/18/2018	9:57:29	Main Floor	Room 118	DOOR FRAME	METAL	CREAM	0	0
4/18/2018	9:57:47	Main Floor	Room 118	DOOR FRAME	METAL	CREAM	0	0
4/18/2018	9:59:26	Main Floor	Room 119	DOOR FRAME	METAL	CREAM	0	0
4/18/2018	9:59:45	Main Floor	Room 119	DOOR FRAME	METAL	CREAM	0	0
4/18/2018	10:00:02	Main Floor	Room 119	DOOR FRAME	METAL	CREAM	0	0
4/18/2018	10:00:31	Main Floor	Room 119	WALL	PLASTER	WHITE	0	0
4/18/2018	10:00:49	Main Floor	Room 119	WALL	PLASTER	WHITE	0	0
4/18/2018	10:01:14	Main Floor	Room 119	CEILING	PLASTER	WHITE	0	0
4/18/2018	10:03:32	Main Floor	Room 120a	WALL	PLASTER	WHITE	0.05	0.05
4/18/2018	10:03:13	Main Floor	Room 120a	WALL	PLASTER	WHITE	0.06	0.05
4/18/2018	10:04:12	Main Floor	Room 120b	WALL	PLASTER	WHITE	0.06	0.04
4/18/2018	10:03:57	Main Floor	Room 120b	WALL	PLASTER	WHITE	0.15	0.24
4/18/2018	10:04:40	Main Floor	Room 120c	WALL	PLASTER	WHITE	0	0
4/18/2018	10:05:21	Main Floor	Room 120c	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	10:04:55	Main Floor	Room 120c	WALL	PLASTER	WHITE	0.02	0.01
4/18/2018	10:06:40	Main Floor	Room 121	WALL	PLASTER	WHITE	0.06	0.03
4/18/2018	10:09:56	Main Floor	Room 121	CEILING	PLASTER	WHITE	0.06	0.03
4/18/2018	10:06:59	Main Floor	Room 121	WALL	PLASTER	WHITE	0.1	0.04
4/18/2018	**10:10:53**	**Main Floor**	**Room 121**	**WALL**	**PLASTER**	**GREEN**	**1**	**0.02**
4/18/2018	10:12:15	Main Floor	Room 122	WALL	PLASTER	CREAM	0.11	0.04
4/18/2018	10:12:36	Main Floor	Room 122	WALL	PLASTER	CREAM	0.11	0.04
4/18/2018	10:12:56	Main Floor	Room 122	WALL	PLASTER	CREAM	0.2	0.1
4/18/2018	10:13:09	Main Floor	Room 122	WALL	PLASTER	CREAM	0.22	0.08
4/18/2018	10:13:37	Main Floor	Room 122a	WALL	PLASTER	CREAM	0.09	0.04

Lead-Based Paint Screening Results

Table 5

Date	Time	Building	Room	Component	Substrate	Color	Lead mg/cm^2	(+/-) Error
4/18/2018	10:13:51	Main Floor	Room 122a	WALL	PLASTER	CREAM	0.12	0.06
4/18/2018	**10:14:17**	**Main Floor**	**Room 122a**	**WALL**	**PLASTER**	**GREEN**	**1**	**0.03**
4/18/2018	10:14:53	Main Floor	Room 123	WALL	PLASTER	CREAM	0.17	0.05
4/18/2018	10:15:31	Main Floor	Room 123	WALL	PLASTER	CREAM	0.22	0.06
4/18/2018	10:15:12	Main Floor	Room 123	WALL	PLASTER	CREAM	0.26	0.09
4/18/2018	10:16:42	Main Floor	Room 123a	WALL	PLASTER	CREAM	0	0
4/18/2018	10:16:58	Main Floor	Room 123a	WALL	PLASTER	CREAM	0.01	0.01
4/18/2018	**10:16:25**	**Main Floor**	**Room 123a**	**WALL**	**PLASTER**	**CREAM**	**1**	**0.03**
4/18/2018	10:34:53	Main Floor	Room 124	WALL	PLASTER	CREAM	0	0
4/18/2018	10:35:53	Main Floor	Room 124	WALL	PLASTER	CREAM	0	0
4/18/2018	10:35:10	Main Floor	Room 124	WALL	PLASTER	CREAM	0.03	0.02
4/18/2018	10:34:36	Main Floor	Room 124	WALL	PLASTER	CREAM	0.18	0.15
4/18/2018	10:39:26	Main Floor	Room 125	CEILING	PLASTER	WHITE	0	0
4/18/2018	10:37:42	Main Floor	Room 125	WALL	PLASTER	WHITE	0.02	0.02
4/18/2018	10:38:42	Main Floor	Room 125	WALL	PLASTER	WHITE	0.1	0.04
4/18/2018	10:38:22	Main Floor	Room 125	WALL	PLASTER	WHITE	0.13	0.06
4/18/2018	10:38:59	Main Floor	Room 125	WALL	PLASTER	WHITE	0.16	0.06
4/18/2018	10:38:02	Main Floor	Room 125	WALL	PLASTER	WHITE	0.25	0.07
4/18/2018	10:40:32	Main Floor	Room 126	WALL	PLASTER	WHITE	0	0
4/18/2018	10:40:14	Main Floor	Room 126	WALL	PLASTER	WHITE	0.21	0.15
4/18/2018	10:44:37	Main Floor	Room 127	WALL	PLASTER	WHITE	0	0
4/18/2018	10:44:56	Main Floor	Room 127	WALL	PLASTER	WHITE	0	0
4/18/2018	10:45:15	Main Floor	Room 127	WALL	PLASTER	WHITE	0	0
4/18/2018	10:45:33	Main Floor	Room 127	WALL	PLASTER	WHITE	0	0
4/18/2018	10:44:19	Main Floor	Room 127	WALL	PLASTER	WHITE	0.05	0.03
4/18/2018	10:46:24	Main Floor	Room 127	WALL	PLASTER	WHITE	0.08	0.05
4/18/2018	**10:46:02**	**Main Floor**	**Room 127**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.02**
4/18/2018	10:47:07	Main Floor	Room 127a	WALL	PLASTER	WHITE	0	0
4/18/2018	10:47:27	Main Floor	Room 127a	WALL	PLASTER	WHITE	0	0
4/18/2018	10:47:44	Main Floor	Room 127a	WALL	PLASTER	WHITE	0	0
4/18/2018	10:48:09	Main Floor	Room 127a	WALL	PLASTER	GREEN	0	0
4/18/2018	10:48:54	Main Floor	Room 127a	CEILING	PLASTER	WHITE	0	0
4/18/2018	10:50:36	Main Floor	Room 128	CEILING	PLASTER	WHITE	0	0
4/18/2018	10:51:00	Main Floor	Room 128	WALL	PLASTER	WHITE	0	0
4/18/2018	10:51:29	Main Floor	Room 128	WALL	PLASTER	WHITE	0	0
4/18/2018	10:51:51	Main Floor	Room 128	TRIM	WOOD	WHITE	0	0
4/18/2018	10:54:49	Main Floor	Room 128	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	10:51:15	Main Floor	Room 128	WALL	PLASTER	WHITE	0.23	0.1
4/18/2018	10:54:21	Main Floor	Room 128	BUILT-IN	METAL	WHITE	0.24	0.09
4/18/2018	10:53:40	Main Floor	Room 128	BUILT-IN	METAL	WHITE	0.46	0.16
4/18/2018	10:55:42	Main Floor	Room 129	WALL	PLASTER	WHITE	0	0
4/18/2018	10:56:36	Main Floor	Room 129	WALL	PLASTER	GREEN	0.05	0.03
4/18/2018	10:56:08	Main Floor	Room 129	WALL	PLASTER	WHITE	0.12	0.09
4/18/2018	10:59:03	Main Floor	Room 130	WALL	PLASTER	PINK	0	0
4/18/2018	10:59:21	Main Floor	Room 130	WALL	PLASTER	PINK	0	0
4/18/2018	10:59:40	Main Floor	Room 130	WALL	PLASTER	PINK	0	0
4/18/2018	10:58:43	Main Floor	Room 130	WALL	PLASTER	PINK	0.07	0.03
4/18/2018	11:00:05	Main Floor	Room 130	WALL	PLASTER	WHITE	0.1	0.05
4/18/2018	11:00:51	Main Floor	Room 131	WALL	PLASTER	WHITE	0	0
4/18/2018	11:01:19	Main Floor	Room 131	WALL	PLASTER	WHITE	0.24	0.09
4/18/2018	11:01:41	Main Floor	Room 131	WALL	PLASTER	WHITE	0.26	0.12
4/18/2018	11:02:34	Main Floor	Room 131	WALL	PLASTER	GREEN	0.26	0.13
4/18/2018	11:02:02	Main Floor	Room 131	WALL	PLASTER	WHITE	0.35	0.19
4/18/2018	11:03:48	Main Floor	Room 132	WALL	PLASTER	WHITE	0	0
4/18/2018	11:04:05	Main Floor	Room 132	WALL	PLASTER	WHITE	0.16	0.07
4/18/2018	11:06:21	Main Floor	Room 133	WALL	PLASTER	WHITE	0	0
4/18/2018	11:07:53	Main Floor	Room 133	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	11:06:38	Main Floor	Room 133	WALL	PLASTER	WHITE	0.15	0.05
4/18/2018	11:06:55	Main Floor	Room 133	WALL	PLASTER	WHITE	0.19	0.09
4/18/2018	11:07:19	Main Floor	Room 133	WALL	PLASTER	GREEN	0.21	0.06

Lead-Based Paint Screening Results

Table 5

Date	Time	Building	Room	Component	Substrate	Color	Lead mg/cm^2	(+/-) Error
4/18/2018	11:10:08	Main Floor	Room 134	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	11:10:33	Main Floor	Room 134	WALL	PLASTER	WHITE	0	0
4/18/2018	11:10:48	Main Floor	Room 134	WALL	PLASTER	WHITE	0	0
4/18/2018	11:11:01	Main Floor	Room 134	WALL	PLASTER	WHITE	0	0
4/18/2018	11:12:50	Main Floor	Room 135	WALL	PLASTER	WHITE	0	0
4/18/2018	11:13:06	Main Floor	Room 135	WALL	PLASTER	WHITE	0	0
4/18/2018	11:12:33	Main Floor	Room 135	WALL	PLASTER	WHITE	0.08	0.05
4/18/2018	11:13:47	Main Floor	Room 135	BUILT-IN	METAL	WHITE	0.08	0.05
4/18/2018	11:13:33	Main Floor	Room 135	BUILT-IN	METAL	WHITE	0.1	0.05
4/18/2018	11:14:43	Main Floor	Room 136	WALL	PLASTER	GREEN	0	0
4/18/2018	11:16:13	Main Floor	Room 136	WALL	PLASTER	WHITE	0	0
4/18/2018	11:15:33	Main Floor	Room 136	WALL	PLASTER	GREEN	0.04	0.03
4/18/2018	11:15:56	Main Floor	Room 136	WALL	PLASTER	WHITE	0.07	0.05
4/18/2018	11:16:49	Main Floor	Room 137	WALL	PLASTER	BROWN	0	0
4/18/2018	11:17:07	Main Floor	Room 137	WALL	PLASTER	BROWN	0	0
4/18/2018	11:17:25	Main Floor	Room 137	WALL	PLASTER	BROWN	0	0
4/18/2018	11:17:41	Main Floor	Room 137	WALL	PLASTER	BROWN	0	0
4/18/2018	**11:19:05**	**Main Floor**	**Room 138**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.07**
4/18/2018	**11:19:23**	**Main Floor**	**Room 138**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.09**
4/18/2018	**11:19:40**	**Main Floor**	**Room 138**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.12**
4/18/2018	11:20:47	Main Floor	Room 139	WALL	PLASTER	WHITE	0	0
4/18/2018	11:21:00	Main Floor	Room 139	WALL	PLASTER	WHITE	0	0
4/18/2018	11:21:19	Main Floor	Room 139	WALL	PLASTER	WHITE	0	0
4/18/2018	11:23:21	Main Floor	Stairs	DOOR	METAL	WHITE	0	0
4/18/2018	11:23:43	Main Floor	Stairs	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	11:24:52	Main Floor	Stairs	DOOR	METAL	YELLOW	0	0
4/18/2018	11:22:40	Main Floor	Stairs	WALL	PLASTER	WHITE	0.02	0.02
4/18/2018	11:22:14	Main Floor	Stairs	WALL	PLASTER	WHITE	0.07	0.08
4/18/2018	11:24:24	Main Floor	Stairs	WALL	PLASTER	WHITE	0.12	0.09
4/18/2018	11:24:10	Main Floor	Stairs	WALL	PLASTER	WHITE	0.13	0.08
4/18/2018	11:22:57	Main Floor	Stairs	WALL	PLASTER	WHITE	0.22	0.13
4/17/2018	16:09:38	Main Floor	Room 140	WALL	PLASTER	GREEN	0	0
4/17/2018	16:10:07	Main Floor	Room 140	WALL	PLASTER	WHITE	0	0
4/17/2018	16:10:25	Main Floor	Room 140	WALL	PLASTER	WHITE	0	0
4/17/2018	16:09:19	Main Floor	Room 140	WALL	PLASTER	GREEN	0.18	0.07
4/17/2018	15:16:26	Main Floor	Room 140h	WALL	PLASTER	WHITE	0	0
4/17/2018	15:16:40	Main Floor	Room 140h	WALL	PLASTER	WHITE	0	0
4/17/2018	15:16:12	Main Floor	Room 140h	WALL	PLASTER	WHITE	0.02	0.01
4/17/2018	15:16:56	Main Floor	Room 140h	WALL	PLASTER	WHITE	0.04	0.02
4/17/2018	15:17:14	Main Floor	Room 140h	WALL	PLASTER	WHITE	0.12	0.08
4/17/2018	**15:17:50**	**Main Floor**	**Room 140h**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.06**
4/17/2018	**15:18:09**	**Main Floor**	**Room 140h**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.1**
4/17/2018	15:10:47	Main Floor	Room 141	WALL	PLASTER	WHITE	0.08	0.11
4/17/2018	15:09:48	Main Floor	Room 141	WALL	PLASTER	WHITE	0.14	0.05
4/17/2018	15:09:27	Main Floor	Room 141	WALL	PLASTER	WHITE	0.17	0.06
4/17/2018	15:14:54	Main Floor	Room 141	DOOR FRAME	METAL	WHITE	0.3	0.1
4/17/2018	**15:10:05**	**Main Floor**	**Room 141**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.07**
4/17/2018	**15:10:27**	**Main Floor**	**Room 141**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.06**
4/17/2018	**15:11:31**	**Main Floor**	**Room 141**	**CEILING**	**PLASTER**	**WHITE**	**1**	**0.04**
4/17/2018	15:12:56	Main Floor	Room 142	CEILING	PLASTER	WHITE	0	0
4/17/2018	15:13:19	Main Floor	Room 142	WALL	PLASTER	WHITE	0	0
4/17/2018	15:13:32	Main Floor	Room 142	WALL	PLASTER	WHITE	0	0
4/17/2018	15:14:31	Main Floor	Room 142	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	15:14:07	Main Floor	Room 142	WALL	PLASTER	WHITE	0.05	0.04
4/17/2018	15:13:50	Main Floor	Room 142	WALL	PLASTER	WHITE	0.23	0.15
4/17/2018	15:19:18	Main Floor	Room 145	WALL	PLASTER	WHITE	0	0
4/17/2018	15:19:35	Main Floor	Room 145	WALL	PLASTER	WHITE	0	0
4/17/2018	15:19:49	Main Floor	Room 145	WALL	PLASTER	WHITE	0	0
4/17/2018	15:20:06	Main Floor	Room 145	WALL	PLASTER	WHITE	0	0
4/17/2018	15:20:28	Main Floor	Room 145	DOOR FRAME	METAL	WHITE	0	0

Lead-Based Paint Screening Results

Table 5

Date	Time	Building	Room	Component	Substrate	Color	Lead mg/cm^2	(+/-) Error
4/17/2018	15:23:05	Main Floor	Room 146	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	15:23:34	Main Floor	Room 146	WALL	PLASTER	WHITE	0	0
4/17/2018	15:23:47	Main Floor	Room 146	WALL	PLASTER	WHITE	0	0
4/17/2018	15:24:05	Main Floor	Room 146	WALL	PLASTER	WHITE	0	0
4/17/2018	15:24:31	Main Floor	Room 146	WALL	PLASTER	BROWN	0	0
4/17/2018	15:25:09	Main Floor	Room 147	WALL	PLASTER	BLUE	0	0
4/17/2018	15:25:27	Main Floor	Room 147	WALL	PLASTER	BLUE	0	0
4/17/2018	15:25:44	Main Floor	Room 147	WALL	PLASTER	BLUE	0	0
4/17/2018	15:26:09	Main Floor	Room 147	WALL	PLASTER	RED	0	0
4/17/2018	15:26:34	Main Floor	Room 147	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	15:27:40	Main Floor	Room 148	WALL	PLASTER	GREEN	0	0
4/17/2018	15:27:59	Main Floor	Room 148	WALL	PLASTER	GREEN	0	0
4/17/2018	15:28:17	Main Floor	Room 148	WALL	PLASTER	GREEN	0.15	0.14
4/17/2018	15:27:22	Main Floor	Room 148	WALL	PLASTER	GREEN	0.17	0.25
4/17/2018	15:29:06	Main Floor	Room 149	WALL	PLASTER	GREEN	0	0
4/17/2018	15:30:25	Main Floor	Room 149	WALL	PLASTER	YELLOW	0	0
4/17/2018	15:30:48	Main Floor	Room 149	CEILING	PLASTER	YELLOW	0	0
4/17/2018	15:30:09	Main Floor	Room 149	WALL	PLASTER	YELLOW	0.04	0.03
4/17/2018	15:29:51	Main Floor	Room 149	WALL	PLASTER	YELLOW	0.11	0.06
4/17/2018	15:29:32	Main Floor	Room 149	WALL	PLASTER	YELLOW	0.12	0.21
4/17/2018	15:32:04	Main Floor	Room 150	WALL	PLASTER	LT BLUE	0	0
4/17/2018	15:32:21	Main Floor	Room 150	WALL	PLASTER	LT BLUE	0	0
4/17/2018	15:33:02	Main Floor	Room 150	WALL	PLASTER	GREEN	0	0
4/17/2018	15:31:48	Main Floor	Room 150	WALL	PLASTER	LT BLUE	0.1	0.05
4/17/2018	15:32:38	Main Floor	Room 150	WALL	PLASTER	LT BLUE	0.1	0.06
4/17/2018	16:08:34	Main Floor	Room 151	WALL	PLASTER	GREEN	0.34	0.11
4/17/2018	16:08:49	Main Floor	Room 151	WALL	PLASTER	GREEN	0.35	0.11
4/17/2018	15:35:38	Main Floor	Room 151a	WALL	PLASTER	YELLOW	0	0
4/17/2018	15:35:52	Main Floor	Room 151a	WALL	PLASTER	YELLOW	0	0
4/17/2018	15:35:13	Main Floor	Room 151a	WALL	PLASTER	WHITE	0.1	0.05
4/17/2018	15:34:43	Main Floor	Room 151a	WALL	PLASTER	WHITE	0.11	0.07
4/17/2018	15:34:57	Main Floor	Room 151a	WALL	PLASTER	WHITE	0.14	0.09
4/17/2018	15:37:04	Main Floor	Room 152	WALL	PLASTER	LT BLUE	0	0
4/17/2018	15:37:42	Main Floor	Room 152	WALL	PLASTER	WHITE	0.07	0.05
4/17/2018	15:36:44	Main Floor	Room 152	WALL	PLASTER	LT BLUE	0.09	0.06
4/17/2018	15:37:18	Main Floor	Room 152	WALL	PLASTER	LT BLUE	0.1	0.06
4/17/2018	15:39:49	Main Floor	Room 153	FLOOR	PLASTER	GRAY	0.09	0.03
4/17/2018	**15:38:33**	**Main Floor**	**Room 153**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.05**
4/17/2018	**15:39:02**	**Main Floor**	**Room 153**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.07**
4/17/2018	**15:39:20**	**Main Floor**	**Room 153**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.09**
4/17/2018	15:45:55	Main Floor	Room 154	WALL	PLASTER	YELLOW	0	0
4/17/2018	15:46:35	Main Floor	Room 154	WALL	PLASTER	YELLOW	0	0
4/17/2018	15:46:54	Main Floor	Room 154	WALL	PLASTER	YELLOW	0	0
4/17/2018	15:47:12	Main Floor	Room 154	WALL	PLASTER	YELLOW	0	0
4/17/2018	15:49:16	Main Floor	Room 155	WALL	PLASTER	YELLOW	0	0
4/17/2018	15:50:21	Main Floor	Room 155	WALL	PLASTER	LT BLUE	0	0
4/17/2018	15:51:32	Main Floor	Room 155	WALL	PLASTER	YELLOW	0	0
4/17/2018	15:48:41	Main Floor	Room 155	WALL	PLASTER	YELLOW	0.09	0.1
4/17/2018	15:50:34	Main Floor	Room 155	WALL	PLASTER	LT BLUE	0.09	0.04
4/17/2018	15:49:37	Main Floor	Room 155	WALL	PLASTER	RED	0.19	0.14
4/17/2018	15:51:00	Main Floor	Room 155	WALL	PLASTER	YELLOW	0.22	0.07
4/17/2018	**15:48:57**	**Main Floor**	**Room 155**	**WALL**	**PLASTER**	**YELLOW**	**1**	**0.08**
4/17/2018	**15:50:03**	**Main Floor**	**Room 155**	**WALL**	**PLASTER**	**LT BLUE**	**1**	**0.04**
4/17/2018	15:54:47	Main Floor	Room 156	WALL	PLASTER	GREEN	0	0
4/17/2018	15:55:01	Main Floor	Room 156	WALL	PLASTER	GREEN	0	0
4/17/2018	15:55:13	Main Floor	Room 156	WALL	PLASTER	GREEN	0	0
4/17/2018	15:55:30	Main Floor	Room 156	WALL	PLASTER	PINK	0	0
4/17/2018	15:53:38	Main Floor	Room 156	WALL	PLASTER	GREEN	0.24	0.19
4/17/2018	15:54:24	Main Floor	Room 156	WALL	PLASTER	GREEN	0.27	0.2
4/17/2018	15:54:03	Main Floor	Room 156	WALL	PLASTER	GREEN	0.28	0.21

Lead-Based Paint Screening Results

Table 5

Date	Time	Building	Room	Component	Substrate	Color	Lead mg/cm^2	(+/-) Error
4/17/2018	15:58:15	Main Floor	Room 157	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	15:59:00	Main Floor	Room 157	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	15:59:26	Main Floor	Room 157	WALL	PLASTER	WHITE	0	0
4/17/2018	15:59:43	Main Floor	Room 157	WALL	PLASTER	WHITE	0	0
4/17/2018	15:59:59	Main Floor	Room 157	WALL	PLASTER	WHITE	0	0
4/17/2018	16:00:29	Main Floor	Room 158	WALL	PLASTER	WHITE	0	0
4/17/2018	16:00:56	Main Floor	Room 158	WALL	PLASTER	WHITE	0	0
4/17/2018	16:01:15	Main Floor	Room 158	WALL	PLASTER	WHITE	0	0
4/17/2018	16:01:32	Main Floor	Room 158	WALL	PLASTER	WHITE	0	0
4/17/2018	16:01:53	Main Floor	Room 158	WALL	PLASTER	PINK	0	0
4/17/2018	16:02:32	Main Floor	Room 159	WALL	PLASTER	PINK	0	0
4/17/2018	16:03:02	Main Floor	Room 159	WALL	PLASTER	LT BLUE	0	0
4/17/2018	16:03:32	Main Floor	Room 159	WALL	PLASTER	LT BLUE	0	0
4/17/2018	16:03:49	Main Floor	Room 159	WALL	PLASTER	LT BLUE	0	0
4/17/2018	16:04:15	Main Floor	Room 159	WALL	PLASTER	WHITE	0	0
4/17/2018	16:11:26	Main Floor	Room 160	WALL	PLASTER	WHITE	0	0
4/17/2018	16:11:05	Main Floor	Room 160	WALL	PLASTER	WHITE	0.43	0.26
4/17/2018	16:05:55	Main Floor	Room 161	WALL	PLASTER	WHITE	0	0
4/17/2018	16:06:14	Main Floor	Room 161	WALL	PLASTER	WHITE	0	0
4/17/2018	16:06:30	Main Floor	Room 161	WALL	PLASTER	WHITE	0	0
4/17/2018	16:07:25	Main Floor	Room 161	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	16:05:38	Main Floor	Room 161	WALL	PLASTER	WHITE	0.14	0.05
4/17/2018	16:06:45	Main Floor	Room 161	WALL	PLASTER	WHITE	0.16	0.05
4/17/2018	16:05:23	Main Floor	Room 161	WALL	PLASTER	WHITE	0.26	0.07
4/17/2018	16:07:04	Main Floor	Room 161	WALL	PLASTER	WHITE	0.35	0.14
4/17/2018	15:00:09	Main Floor	Room 162	WALL	PLASTER	WHITE	0	0
4/17/2018	15:01:12	Main Floor	Room 162	WALL	PLASTER	WHITE	0	0
4/17/2018	15:01:45	Main Floor	Room 162	WALL	PLASTER	BLUE	0	0
4/17/2018	15:02:06	Main Floor	Room 162	WALL	PLASTER	BLUE	0.31	0.12
4/17/2018	14:59:49	Main Floor	Room 162	WALL	PLASTER	WHITE	0.34	0.16
4/17/2018	**15:00:26**	**Main Floor**	**Room 162**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.13**
4/17/2018	**15:00:50**	**Main Floor**	**Room 162**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.13**
4/17/2018	14:46:34	Main Floor	Room 163	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:46:51	Main Floor	Room 163	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:47:45	Main Floor	Room 163	CEILING	PLASTER	WHITE	0	0
4/17/2018	14:48:14	Main Floor	Room 163	WALL	PLASTER	WHITE	0	0
4/17/2018	14:48:31	Main Floor	Room 163	WALL	PLASTER	WHITE	0	0
4/17/2018	14:48:48	Main Floor	Room 163	WALL	PLASTER	WHITE	0	0
4/17/2018	14:49:05	Main Floor	Room 163	WALL	PLASTER	WHITE	0	0
4/17/2018	14:49:23	Main Floor	Room 163	WALL	PLASTER	WHITE	0	0
4/17/2018	**14:49:50**	**Main Floor**	**Room 163**	**WALL**	**PLASTER**	**LT BLUE**	**1**	**0.05**
4/17/2018	14:38:43	Main Floor	Room 164	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:39:12	Main Floor	Room 164	CEILING	PLASTER	WHITE	0	0
4/17/2018	14:39:40	Main Floor	Room 164	WALL	PLASTER	WHITE	0	0
4/17/2018	14:40:14	Main Floor	Room 164	WALL	PLASTER	WHITE	0	0
4/17/2018	14:40:28	Main Floor	Room 164	WALL	PLASTER	WHITE	0	0
4/17/2018	14:40:45	Main Floor	Room 164	WALL	PLASTER	WHITE	0	0
4/17/2018	**14:39:54**	**Main Floor**	**Room 164**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.07**
4/17/2018	14:30:10	Main Floor	Room 165	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:30:28	Main Floor	Room 165	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:30:55	Main Floor	Room 165	CEILING	PLASTER	WHITE	0	0
4/17/2018	14:31:56	Main Floor	Room 165	WALL	PLASTER	WHITE	0	0
4/17/2018	14:32:32	Main Floor	Room 165	WALL	PLASTER	WHITE	0	0
4/17/2018	14:31:21	Main Floor	Room 165	WALL	PLASTER	WHITE	0.06	0.02
4/17/2018	14:31:39	Main Floor	Room 165	WALL	PLASTER	WHITE	0.09	0.05
4/17/2018	**14:32:13**	**Main Floor**	**Room 165**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.03**
4/17/2018	14:23:21	Main Floor	Room 166	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:23:54	Main Floor	Room 166	CEILING	PLASTER	WHITE	0	0
4/17/2018	14:25:11	Main Floor	Room 166	WALL	PLASTER	WHITE	0.03	0.02
4/17/2018	14:24:26	Main Floor	Room 166	TRIM	METAL	BROWN	0.05	0.02

Lead-Based Paint Screening Results

Table 5

Date	Time	Building	Room	Component	Substrate	Color	Lead mg/cm^2	(+/-) Error
4/17/2018	14:24:52	Main Floor	Room 166	WALL	PLASTER	WHITE	0.06	0.02
4/17/2018	14:25:25	Main Floor	Room 166	WALL	PLASTER	WHITE	0.06	0.04
4/17/2018	14:25:42	Main Floor	Room 166	WALL	PLASTER	WHITE	0.06	0.04
4/17/2018	14:20:56	Main Floor	Room 167	WALL	PLASTER	WHITE	0	0
4/17/2018	14:21:12	Main Floor	Room 167	WALL	PLASTER	WHITE	0	0
4/17/2018	14:21:27	Main Floor	Room 167	WALL	PLASTER	WHITE	0	0
4/17/2018	14:21:52	Main Floor	Room 167	CEILING	PLASTER	WHITE	0	0
4/17/2018	14:22:18	Main Floor	Room 167	DOOR	METAL	WHITE	0	0
4/17/2018	14:22:37	Main Floor	Room 167	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:12:22	Main Floor	Room 168	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:13:07	Main Floor	Room 168	WALL	PLASTER	WHITE	0	0
4/17/2018	14:13:23	Main Floor	Room 168	WALL	PLASTER	WHITE	0	0
4/17/2018	14:13:50	Main Floor	Room 168	TRIM	PLASTER	YELLOW	0.06	0.02
4/17/2018	14:12:50	Main Floor	Room 168	WALL	PLASTER	WHITE	0.16	0.06
4/17/2018	14:09:37	Main Floor	Room 169	WALL	PLASTER	WHITE	0.02	0.02
4/17/2018	14:09:55	Main Floor	Room 169	WALL	PLASTER	WHITE	0.08	0.04
4/17/2018	14:10:12	Main Floor	Room 169	WALL	PLASTER	WHITE	0.11	0.07
4/17/2018	14:10:57	Main Floor	Room 169	CEILING	PLASTER	WHITE	0.14	0.06
4/17/2018	14:10:29	Main Floor	Room 169	WALL	PLASTER	WHITE	0.15	0.07
4/17/2018	**14:09:18**	**Main Floor**	**Room 169**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.06**
4/17/2018	13:48:03	Main Floor	Room 170	DOOR FRAME	METAL	PINK	0	0
4/17/2018	13:49:52	Main Floor	Room 170	WALL	DRYWALL	WHITE	0	0
4/17/2018	13:50:09	Main Floor	Room 170	WALL	DRYWALL	WHITE	0	0
4/17/2018	13:51:08	Main Floor	Room 170	TRIM	METAL	GREEN	0.05	0.02
4/17/2018	13:51:39	Main Floor	Room 170	WALL	DRYWALL	LT BLUE	0.09	0.06
4/17/2018	13:50:36	Main Floor	Room 170	CEILING	DRYWALL	WHITE	0.14	0.04
4/17/2018	13:52:10	Main Floor	Room 170	WALL	DRYWALL	WHITE	0.15	0.05
4/17/2018	13:52:41	Main Floor	Room 170	WALL	DRYWALL	WHITE	0.22	0.09
4/17/2018	13:47:19	Main Floor	Room 171	WALL	DRYWALL	WHITE	0	0
4/17/2018	13:47:33	Main Floor	Room 171	WALL	DRYWALL	WHITE	0.2	0.25
4/17/2018	13:44:23	Main Floor	Room 172	WALL	PLASTER	PINK	0	0
4/17/2018	13:44:49	Main Floor	Room 172	WALL	PLASTER	PINK	0	0
4/17/2018	13:45:11	Main Floor	Room 172	WALL	DRYWALL	PINK	0.04	0.03
4/17/2018	13:45:59	Main Floor	Room 172	CEILING	DRYWALL	WHITE	0.16	0.05
4/17/2018	13:46:24	Main Floor	Room 172	WALL	DRYWALL	WHITE	0.17	0.07
4/17/2018	13:38:55	Main Floor	Room 173	DOOR	WOOD	WHITE	0.01	0.01
4/17/2018	**13:39:23**	**Main Floor**	**Room 173**	**WALL**	**DRYWALL**	**WHITE**	**1**	**0.08**
4/17/2018	**13:39:42**	**Main Floor**	**Room 173**	**WALL**	**DRYWALL**	**WHITE**	**1**	**0.07**
4/17/2018	**13:40:05**	**Main Floor**	**Room 173**	**WALL**	**DRYWALL**	**WHITE**	**1**	**0.12**
4/17/2018	**13:40:33**	**Main Floor**	**Room 173**	**FLOOR**	**CONCRETE**	**GRAY**	**1**	**0.03**
4/17/2018	13:36:32	Main Floor	Room 174	WALL	DRYWALL	WHITE	0	0
4/17/2018	13:36:50	Main Floor	Room 174	WALL	DRYWALL	WHITE	0	0
4/17/2018	13:37:49	Main Floor	Room 174	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	13:37:10	Main Floor	Room 174	WALL	DRYWALL	WHITE	0.19	0.07
4/17/2018	13:36:00	Main Floor	Room 174	WALL	DRYWALL	WHITE	0.34	0.32
4/17/2018	13:59:09	Main Floor	Room 175	WALL	PLASTER	WHITE	0	0
4/17/2018	13:59:28	Main Floor	Room 175	WALL	PLASTER	WHITE	0	0
4/17/2018	13:59:59	Main Floor	Room 175	CEILING	PLASTER	WHITE	0	0
4/17/2018	14:00:54	Main Floor	Room 175	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	13:58:53	Main Floor	Room 175	WALL	PLASTER	WHITE	0.04	0.02
4/17/2018	**13:58:36**	**Main Floor**	**Room 175**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.03**
4/17/2018	**14:00:25**	**Main Floor**	**Room 175**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.16**
4/17/2018	14:01:37	Main Floor	Room 176	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:01:54	Main Floor	Room 176	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:02:26	Main Floor	Room 176	WALL	PLASTER	WHITE	0	0
4/17/2018	14:02:59	Main Floor	Room 176	WALL	PLASTER	WHITE	0	0
4/17/2018	14:03:28	Main Floor	Room 176	WALL	PLASTER	PINK	0	0
4/17/2018	14:03:52	Main Floor	Room 176	WALL	PLASTER	WHITE	0	0
4/17/2018	14:04:12	Main Floor	Room 176	WALL	PLASTER	WHITE	0	0
4/17/2018	14:04:31	Main Floor	Room 176	CEILING	PLASTER	WHITE	0	0

Lead-Based Paint Screening Results

Table 5

Date	Time	Building	Room	Component	Substrate	Color	Lead mg/cm^2	(+/-) Error
4/17/2018	14:02:42	Main Floor	Room 176	WALL	PLASTER	WHITE	0.02	0.02
4/17/2018	14:06:13	Main Floor	Room 177	WALL	PLASTER	WHITE	0	0
4/17/2018	14:06:28	Main Floor	Room 177	WALL	PLASTER	WHITE	0	0
4/17/2018	14:06:44	Main Floor	Room 177	WALL	PLASTER	WHITE	0	0
4/17/2018	14:07:01	Main Floor	Room 177	WALL	PLASTER	WHITE	0	0
4/17/2018	14:07:23	Main Floor	Room 177	WALL	PLASTER	WHITE	0	0
4/17/2018	14:07:50	Main Floor	Room 177	CEILING	PLASTER	WHITE	0	0
4/17/2018	14:08:18	Main Floor	Room 177	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:08:34	Main Floor	Room 177	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:14:49	Main Floor	Room 178	WALL	PLASTER	WHITE	0	0
4/17/2018	14:15:02	Main Floor	Room 178	WALL	PLASTER	WHITE	0	0
4/17/2018	14:15:18	Main Floor	Room 178	WALL	PLASTER	WHITE	0	0
4/17/2018	14:15:31	Main Floor	Room 178	WALL	PLASTER	WHITE	0	0
4/17/2018	14:15:46	Main Floor	Room 178	WALL	PLASTER	WHITE	0	0
4/17/2018	14:16:00	Main Floor	Room 178	WALL	PLASTER	WHITE	0	0
4/17/2018	14:16:31	Main Floor	Room 178	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:16:56	Main Floor	Room 178	DOOR	METAL	WHITE	0	0
4/17/2018	14:17:46	Main Floor	Room 179	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:18:23	Main Floor	Room 179	DOOR FRAME	METAL	BROWN	0	0
4/17/2018	14:18:48	Main Floor	Room 179	DOOR FRAME	METAL	BROWN	0	0
4/17/2018	14:19:15	Main Floor	Room 179	WALL	PLASTER	WHITE	0	0
4/17/2018	14:19:33	Main Floor	Room 179	WALL	PLASTER	WHITE	0	0
4/17/2018	14:19:50	Main Floor	Room 179	WALL	PLASTER	WHITE	0	0
4/17/2018	14:20:07	Main Floor	Room 179	WALL	PLASTER	WHITE	0	0
4/17/2018	14:27:18	Main Floor	Room 180	WALL	PLASTER	WHITE	0	0
4/17/2018	14:27:35	Main Floor	Room 180	WALL	PLASTER	WHITE	0	0
4/17/2018	14:27:51	Main Floor	Room 180	WALL	PLASTER	WHITE	0	0
4/17/2018	14:28:08	Main Floor	Room 180	WALL	PLASTER	WHITE	0	0
4/17/2018	14:28:44	Main Floor	Room 180	CEILING	PLASTER	WHITE	0	0
4/17/2018	14:29:07	Main Floor	Room 180	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:29:24	Main Floor	Room 180	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:27:00	Main Floor	Room 180	WALL	PLASTER	WHITE	0.07	0.04
4/17/2018	14:35:58	Main Floor	Room 181	WALL	PLASTER	WHITE	0	0
4/17/2018	14:36:15	Main Floor	Room 181	WALL	PLASTER	WHITE	0	0
4/17/2018	14:36:32	Main Floor	Room 181	WALL	PLASTER	WHITE	0	0
4/17/2018	14:36:49	Main Floor	Room 181	WALL	PLASTER	WHITE	0	0
4/17/2018	14:37:15	Main Floor	Room 181	CEILING	PLASTER	WHITE	0	0
4/17/2018	14:37:43	Main Floor	Room 181	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:38:01	Main Floor	Room 181	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:35:40	Main Floor	Room 181	WALL	PLASTER	WHITE	0.16	0.08
4/17/2018	14:42:05	Main Floor	Room 182	WALL	PLASTER	WHITE	0	0
4/17/2018	14:42:22	Main Floor	Room 182	WALL	PLASTER	WHITE	0	0
4/17/2018	14:42:39	Main Floor	Room 182	WALL	PLASTER	WHITE	0	0
4/17/2018	14:43:05	Main Floor	Room 182	CEILING	PLASTER	WHITE	0	0
4/17/2018	14:43:31	Main Floor	Room 182	DOOR FRAME	METAL	WHITE	0	0
4/17/2018	14:41:30	Main Floor	Room 182	WALL	PLASTER	WHITE	0.03	0.03
4/17/2018	14:41:47	Main Floor	Room 182	WALL	PLASTER	WHITE	0.08	0.1
4/17/2018	14:57:50	Main Floor	Room 183	WALL	PLASTER	WHITE	0	0
4/17/2018	14:58:05	Main Floor	Room 183	WALL	PLASTER	WHITE	0	0
4/17/2018	14:58:18	Main Floor	Room 183	WALL	PLASTER	WHITE	0	0
4/17/2018	14:58:35	Main Floor	Room 183	WALL	PLASTER	WHITE	0	0
4/18/2018	12:40:31	Main Floor	Room 183	WALL	PLASTER	WHITE	0	0
4/18/2018	12:40:48	Main Floor	Room 183	WALL	PLASTER	WHITE	0	0
4/18/2018	12:41:03	Main Floor	Room 183	WALL	PLASTER	WHITE	0	0
4/18/2018	12:41:18	Main Floor	Room 183	WALL	PLASTER	WHITE	0	0
4/18/2018	12:41:42	Main Floor	Room 183	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	12:42:48	Main Floor	Room 184	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	12:43:05	Main Floor	Room 184	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	12:43:47	Main Floor	Room 184	WALL	PLASTER	WHITE	0	0
4/18/2018	12:44:05	Main Floor	Room 184	WALL	PLASTER	WHITE	0	0

Lead-Based Paint Screening Results

Table 5

Date	Time	Building	Room	Component	Substrate	Color	Lead mg/cm^2	(+/-) Error
4/18/2018	12:44:22	Main Floor	Room 184	WALL	PLASTER	WHITE	0	0
4/18/2018	12:44:39	Main Floor	Room 184	WALL	PLASTER	WHITE	0	0
4/18/2018	12:45:13	Main Floor	Room 184	WALL	PLASTER	WHITE	0	0
4/18/2018	12:45:42	Main Floor	Room 184	WALL	PLASTER	WHITE	0	0
4/18/2018	12:46:23	Main Floor	Room 184	CEILING	PLASTER	WHITE	0	0
4/18/2018	12:47:19	Main Floor	Room 185	CEILING	PLASTER	WHITE	0	0
4/18/2018	12:48:05	Main Floor	Room 185	WALL	PLASTER	WHITE	0	0
4/18/2018	12:49:07	Main Floor	Room 185	WALL	PLASTER	WHITE	0	0
4/18/2018	12:49:26	Main Floor	Room 185	WALL	PLASTER	WHITE	0	0
4/18/2018	12:49:43	Main Floor	Room 185	WALL	PLASTER	WHITE	0	0
4/18/2018	12:50:24	Main Floor	Room 185	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	12:51:08	Main Floor	Room 185	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	12:52:16	Main Floor	Room 186	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	12:52:33	Main Floor	Room 186	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	12:53:00	Main Floor	Room 186	WALL	PLASTER	WHITE	0	0
4/18/2018	12:53:20	Main Floor	Room 186	WALL	PLASTER	WHITE	0	0
4/18/2018	12:53:37	Main Floor	Room 186	WALL	PLASTER	WHITE	0	0
4/18/2018	12:53:56	Main Floor	Room 186	WALL	PLASTER	WHITE	0	0
4/18/2018	12:54:21	Main Floor	Room 186	WALL	PLASTER	WHITE	0	0
4/18/2018	12:54:46	Main Floor	Room 186	CEILING	PLASTER	WHITE	0	0
4/18/2018	13:00:28	Main Floor	Room 187	WALL	PLASTER	WHITE	0	0
4/18/2018	13:00:45	Main Floor	Room 187	WALL	PLASTER	WHITE	0	0
4/18/2018	13:01:02	Main Floor	Room 187	WALL	PLASTER	WHITE	0	0
4/18/2018	13:01:19	Main Floor	Room 187	WALL	PLASTER	WHITE	0	0
4/18/2018	13:01:44	Main Floor	Room 187	CEILING	PLASTER	WHITE	0	0
4/18/2018	13:02:08	Main Floor	Room 187	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	13:02:28	Main Floor	Room 187	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	12:55:43	Main Floor	Room 188	WALL	PLASTER	WHITE	0	0
4/18/2018	12:57:51	Main Floor	Room 188	WALL	PLASTER	WHITE	0	0
4/18/2018	12:58:59	Main Floor	Room 188	WALL	PLASTER	WHITE	0	0
4/18/2018	12:59:33	Main Floor	Room 188	WALL	PLASTER	GREEN	0	0
4/18/2018	13:04:39	Main Floor	Room 189	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	13:05:13	Main Floor	Room 189	WALL	PLASTER	BROWN	0	0
4/18/2018	13:05:50	Main Floor	Room 189	WALL	PLASTER	BROWN	0	0
4/18/2018	13:06:06	Main Floor	Room 189	WALL	PLASTER	BROWN	0	0
4/18/2018	13:05:31	Main Floor	Room 189	WALL	PLASTER	BROWN	0.04	0.04
4/18/2018	13:06:45	Main Floor	Room 190	WALL	PLASTER	WHITE	0	0
4/18/2018	13:07:02	Main Floor	Room 190	WALL	PLASTER	WHITE	0	0
4/18/2018	13:07:25	Main Floor	Room 190	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	13:07:48	Main Floor	Room 190	DOOR	METAL	WHITE	0	0
4/18/2018	13:08:21	Main Floor	Room 191	DOOR	METAL	WHITE	0	0
4/18/2018	13:08:40	Main Floor	Room 191	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	13:09:10	Main Floor	Room 191	WALL	PLASTER	LT BLUE	0	0
4/18/2018	13:09:32	Main Floor	Room 191	WALL	PLASTER	LT BLUE	0	0
4/18/2018	13:10:05	Main Floor	Room 191	WALL	PLASTER	LT BLUE	0	0
4/18/2018	13:09:49	Main Floor	Room 191	WALL	PLASTER	LT BLUE	0.48	0.23
4/18/2018	13:10:53	Main Floor	Room 192	WALL	PLASTER	WHITE	0	0
4/18/2018	13:11:13	Main Floor	Room 192	WALL	PLASTER	WHITE	0	0
4/18/2018	13:11:35	Main Floor	Room 192	WALL	PLASTER	WHITE	0	0
4/18/2018	13:11:50	Main Floor	Room 192	WALL	PLASTER	WHITE	0	0
4/18/2018	13:12:20	Main Floor	Room 192	WALL	PLASTER	GREEN	0	0
4/18/2018	13:12:56	Main Floor	Room 192	DOOR	METAL	WHITE	0	0
4/18/2018	13:13:24	Main Floor	Room 192	DOOR FRAME	METAL	GRAY	0	0
4/18/2018	13:15:09	Main Floor	Room 193	WALL	PLASTER	WHITE	0	0
4/18/2018	13:15:29	Main Floor	Room 193	WALL	PLASTER	WHITE	0.13	0.11
4/18/2018	**13:14:42**	**Main Floor**	**Room 193**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.15**
4/18/2018	**13:16:12**	**Main Floor**	**Room 193**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.12**
4/18/2018	**13:16:40**	**Main Floor**	**Room 193**	**WALL**	**PLASTER**	**RED**	**1**	**0.13**
4/18/2018	13:19:33	Main Floor	Room 194	WALL	PLASTER	WHITE	0.05	0.03
4/18/2018	13:20:03	Main Floor	Room 194	WALL	PLASTER	WHITE	0.16	0.09

Lead-Based Paint Screening Results

Table 5

Date	Time	Building	Room	Component	Substrate	Color	Lead mg/cm^2	(+/-) Error
4/18/2018	13:23:14	Main Floor	Room 195	WALL	PLASTER	WHITE	0	0
4/18/2018	13:21:54	Main Floor	Room 195	WALL	PLASTER	BROWN	0.04	0.02
4/18/2018	13:23:31	Main Floor	Room 195	WALL	PLASTER	WHITE	0.04	0.02
4/18/2018	13:22:14	Main Floor	Room 195	WALL	PLASTER	BROWN	0.1	0.12
4/18/2018	13:22:49	Main Floor	Room 195	WALL	PLASTER	BROWN	0.1	0.07
4/18/2018	13:22:31	Main Floor	Room 195	WALL	PLASTER	BROWN	0.17	0.13
4/18/2018	13:25:11	Main Floor	Room 196	WALL	PLASTER	WHITE	0.06	0.04
4/18/2018	13:25:39	Main Floor	Room 196	WINDOW SILL	WOOD	WHITE	0.12	0.05
4/18/2018	13:24:51	Main Floor	Room 196	WALL	PLASTER	WHITE	0.14	0.08
4/18/2018	13:28:48	Main Floor	Room 197	WALL	PLASTER	YELLOW	0	0
4/18/2018	13:29:05	Main Floor	Room 197	WALL	PLASTER	YELLOW	0	0
4/18/2018	13:28:13	Main Floor	Room 197	WALL	PLASTER	YELLOW	0.05	0.04
4/18/2018	13:29:34	Main Floor	Room 197	WALL	PLASTER	WHITE	0.08	0.04
4/18/2018	13:27:56	Main Floor	Room 197	WALL	PLASTER	YELLOW	0.12	0.05
4/18/2018	13:28:32	Main Floor	Room 197	WALL	PLASTER	YELLOW	0.13	0.1
4/18/2018	13:26:40	Main Floor	Room 197a	WALL	PLASTER	WHITE	0	0
4/18/2018	13:26:57	Main Floor	Room 197a	WALL	PLASTER	WHITE	0	0
4/18/2018	13:27:10	Main Floor	Room 197a	WALL	PLASTER	WHITE	0	0
4/18/2018	13:30:28	Main Floor	Room 198	WALL	PLASTER	WHITE	0	0
4/18/2018	13:30:44	Main Floor	Room 198	WALL	PLASTER	WHITE	0	0
4/18/2018	13:30:58	Main Floor	Room 198	WALL	PLASTER	WHITE	0	0
4/18/2018	13:31:12	Main Floor	Room 198	WALL	PLASTER	WHITE	0	0
4/18/2018	13:31:53	Main Floor	Room 199	WALL	PLASTER	YELLOW	0	0
4/18/2018	13:32:38	Main Floor	Room 199	WALL	PLASTER	YELLOW	0	0
4/18/2018	13:32:23	Main Floor	Room 199	WALL	PLASTER	YELLOW	0.1	0.16
4/18/2018	13:32:07	Main Floor	Room 199	WALL	PLASTER	YELLOW	0.17	0.19
4/18/2018	13:33:04	Main Floor	Room 199	WINDOW SILL	WOOD	YELLOW	0.19	0.08
4/18/2018	13:35:05	Main Floor	Room 200	WALL	PLASTER	LT BLUE	0	0
4/18/2018	13:35:21	Main Floor	Room 200	WALL	PLASTER	LT BLUE	0	0
4/18/2018	13:34:34	Main Floor	Room 200	WALL	PLASTER	LT BLUE	0.04	0.03
4/18/2018	13:34:48	Main Floor	Room 200	WALL	PLASTER	LT BLUE	0.1	0.07
4/18/2018	13:34:07	Main Floor	Room 200	WINDOW SILL	WOOD	WHITE	0.16	0.09
4/18/2018	13:37:23	Main Floor	Room 201	WALL	PLASTER	WHITE	0	0
4/18/2018	13:36:11	Main Floor	Room 201	WALL	PLASTER	WHITE	0.05	0.03
4/18/2018	13:37:47	Main Floor	Room 201	WINDOW SILL	WOOD	WHITE	0.11	0.05
4/18/2018	**13:36:34**	**Main Floor**	**Room 201**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.08**
4/18/2018	**13:37:00**	**Main Floor**	**Room 201**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.04**
4/18/2018	13:42:12	Main Floor	Room 202	WALL	PLASTER	WHITE	0	0
4/18/2018	13:41:13	Main Floor	Room 202	WALL	PLASTER	WHITE	0.06	0.05
4/18/2018	13:41:34	Main Floor	Room 202	WALL	PLASTER	WHITE	0.07	0.03
4/18/2018	13:41:51	Main Floor	Room 202	WALL	PLASTER	WHITE	0.12	0.04
4/18/2018	13:42:29	Main Floor	Room 203	WALL	PLASTER	WHITE	0	0
4/18/2018	13:43:00	Main Floor	Room 203	WALL	PLASTER	WHITE	0.08	0.04
4/18/2018	13:42:43	Main Floor	Room 203	WALL	PLASTER	WHITE	0.13	0.07
4/18/2018	13:43:16	Main Floor	Room 203	WALL	PLASTER	WHITE	0.21	0.26
4/18/2018	13:46:30	Main Floor	Room 204	DOOR FRAME	METAL	LT BLUE	0	0
4/18/2018	13:45:31	Main Floor	Room 204	WALL	PLASTER	LT BLUE	0.06	0.1
4/18/2018	13:45:52	Main Floor	Room 204	WALL	PLASTER	LT BLUE	0.12	0.08
4/18/2018	13:47:43	Main Floor	Room 205	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	13:48:05	Main Floor	Room 205	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	13:48:23	Main Floor	Room 205	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	13:49:09	Main Floor	Room 205	WALL	PLASTER	WHITE	0	0
4/18/2018	13:49:25	Main Floor	Room 205	WALL	PLASTER	WHITE	0	0
4/18/2018	13:49:44	Main Floor	Room 205	WALL	PLASTER	WHITE	0	0
4/18/2018	13:50:03	Main Floor	Room 205	WALL	PLASTER	WHITE	0	0
4/18/2018	13:50:22	Main Floor	Room 205	WALL	PLASTER	WHITE	0	0
4/18/2018	13:51:07	Main Floor	Room 205	WINDOW SILL	WOOD	WHITE	0.15	0.05
4/18/2018	13:51:45	Main Floor	Room 205a	CEILING	PLASTER	WHITE	0	0
4/18/2018	13:53:01	Main Floor	Room 205b	WALL	PLASTER	WHITE	0	0
4/18/2018	13:53:28	Main Floor	Room 205b	DOOR FRAME	METAL	WHITE	0	0

Lead-Based Paint Screening Results

Table 5

Date	Time	Building	Room	Component	Substrate	Color	Lead mg/cm^2	(+/-) Error
4/18/2018	13:54:05	Main Floor	Room 206	DOOR FRAME	METAL	WHITE	0	0
4/18/2018	13:54:30	Main Floor	Room 206	WALL	PLASTER	WHITE	0	0
4/18/2018	13:54:48	Main Floor	Room 206	WALL	PLASTER	WHITE	0	0
4/18/2018	13:55:05	Main Floor	Room 206	WALL	PLASTER	WHITE	0	0
4/18/2018	**13:38:51**	**Main Floor**	**Room 207**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.07**
4/18/2018	**13:39:08**	**Main Floor**	**Room 207**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.05**
4/18/2018	**13:39:30**	**Main Floor**	**Room 207**	**WALL**	**PLASTER**	**WHITE**	**1**	**0.08**
4/18/2018	**13:39:59**	**Main Floor**	**Room 207**	**CEILING**	**PLASTER**	**WHITE**	**1**	**0.05**
4/17/2018	16:24:53	Hospital	Exterior	DOOR	METAL	YELLOW	0	0
4/17/2018	16:25:31	Hospital	Exterior	DOOR FRAME	METAL	PINK	0	0
4/17/2018	16:26:23	Hospital	Exterior	TRIM	WOOD	YELLOW	0	0
4/17/2018	16:27:04	Hospital	Exterior	DOOR	METAL	YELLOW	0	0
4/17/2018	16:27:37	Hospital	Exterior	TRIM	WOOD	YELLOW	0	0
4/17/2018	16:29:09	Hospital	Exterior	DOOR	METAL	DK BROWN	0	0
4/17/2018	16:29:45	Hospital	Exterior	WALL	WOOD	ORANGE	0.05	0.02
4/17/2018	16:23:39	Hospital	Exterior	DOOR	WOOD	YELLOW	0.25	0.06
4/17/2018	16:32:32	Hospital	Exterior	TRIM	WOOD	YELLOW	0.89	0.09
4/17/2018	**16:32:00**	**Hospital**	**Exterior**	**TRIM**	**WOOD**	**YELLOW**	**1.26**	**0.13**
4/17/2018	**16:31:15**	**Hospital**	**Exterior**	**TRIM**	**WOOD**	**YELLOW**	**1.37**	**0.17**
Shed - Screening Results								
4/17/2018	16:19:25	Shed	Exterior	WALL	WOOD	YELLOW	0	0
4/17/2018	16:20:11	Shed	Exterior	WALL	WOOD	YELLOW	0	0
4/17/2018	16:20:33	Shed	Exterior	WALL	WOOD	YELLOW	0	0
4/17/2018	16:19:48	Shed	Exterior	WALL	WOOD	YELLOW	0.26	0.05
Home Oxygen Building - Screening Results								
4/17/2018	17:22:06	Home O2 Building	Room A	WALL	DRYWALL	WHITE	0	0
4/17/2018	17:22:32	Home O2 Building	Room A	WALL	DRYWALL	WHITE	0	0
4/17/2018	17:22:54	Home O2 Building	Room A	WALL	WOOD	WHITE	0	0
4/17/2018	17:23:21	Home O2 Building	Room A	WALL	WOOD	YELLOW	0	0
4/17/2018	17:23:52	Home O2 Building	Room A	CEILING	DRYWALL	WHITE	0	0
4/17/2018	17:24:33	Home O2 Building	Room A	FLOOR	CONCRETE	GRAY	0	0
4/17/2018	17:25:06	Home O2 Building	Room A	DOOR FRAME	WOOD	CREAM	0	0
4/17/2018	17:25:56	Home O2 Building	Room A	DOOR FRAME	WOOD	YELLOW	0	0
4/17/2018	17:26:21	Home O2 Building	Room A	DOOR	WOOD	WHITE	0	0
4/17/2018	17:28:52	Home O2 Building	Room A	DOOR	METAL	BROWN	0	0
4/17/2018	17:30:03	Home O2 Building	Room B	WALL	DRYWALL	BROWN	0	0
4/17/2018	17:30:20	Home O2 Building	Room B	WALL	DRYWALL	BROWN	0	0
4/17/2018	17:30:38	Home O2 Building	Room B	WALL	DRYWALL	BROWN	0	0
4/17/2018	17:30:58	Home O2 Building	Room B	WALL	DRYWALL	BROWN	0	0
4/17/2018	17:31:20	Home O2 Building	Room B	CEILING	DRYWALL	BROWN	0	0
4/17/2018	17:31:45	Home O2 Building	Room B	DOOR	METAL	BROWN	0	0
4/17/2018	17:32:13	Home O2 Building	Room B	TRIM	WOOD	BROWN	0	0
4/17/2018	17:32:56	Home O2 Building	Room C	DOOR FRAME	WOOD	BROWN	0	0
4/17/2018	17:33:31	Home O2 Building	Room C	WALL	DRYWALL	WHITE	0	0
4/17/2018	17:33:49	Home O2 Building	Room C	WALL	DRYWALL	WHITE	0	0
4/17/2018	17:34:15	Home O2 Building	Room C	CEILING	DRYWALL	WHITE	0	0
4/17/2018	17:34:45	Home O2 Building	Room C	WALL	DRYWALL	RED	0	0
4/17/2018	17:35:14	Home O2 Building	Room C	DOOR	METAL	RED	0	0
4/17/2018	16:35:51	Home O2 Building	Exterior	WALL	WOOD	YELLOW	0	0
4/17/2018	16:36:16	Home O2 Building	Exterior	WALL	WOOD	YELLOW	0	0
4/17/2018	16:36:45	Home O2 Building	Exterior	WALL	WOOD	YELLOW	0	0
4/17/2018	16:37:08	Home O2 Building	Exterior	TRIM	WOOD	YELLOW	0	0
4/17/2018	16:37:32	Home O2 Building	Exterior	TRIM	WOOD	YELLOW	0	0
4/17/2018	16:38:04	Home O2 Building	Exterior	TRIM	WOOD	YELLOW	0	0

Lead-in-Soil Analytical Results

Table 6

Soil Sample ID	Location	MT DEQ IEUBK Model (mg/kg)	EPA RSL – Residential Soil (mg/kg)	EPA RSL – Industrial Soil (mg/kg)	Lead Results (mg/kg)
LMH-SO01-0001	Ends of the two southwest wings	153	400	800	**30**
LMH-SO91-0001					**25.7**

APPENDIX A
PHOTOGRAPH LOG

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Livingston Memorial Hospital	Livingston, MT	0003/1802-06

Photo No.	Date:
1	04/17/2018

Photo Coordinates	
Lat	45.649811
Long	-110.568878

Direction Photo Taken:
224.946308724832

Description:

Two mercury ampules observed on the boiler in the hospital.

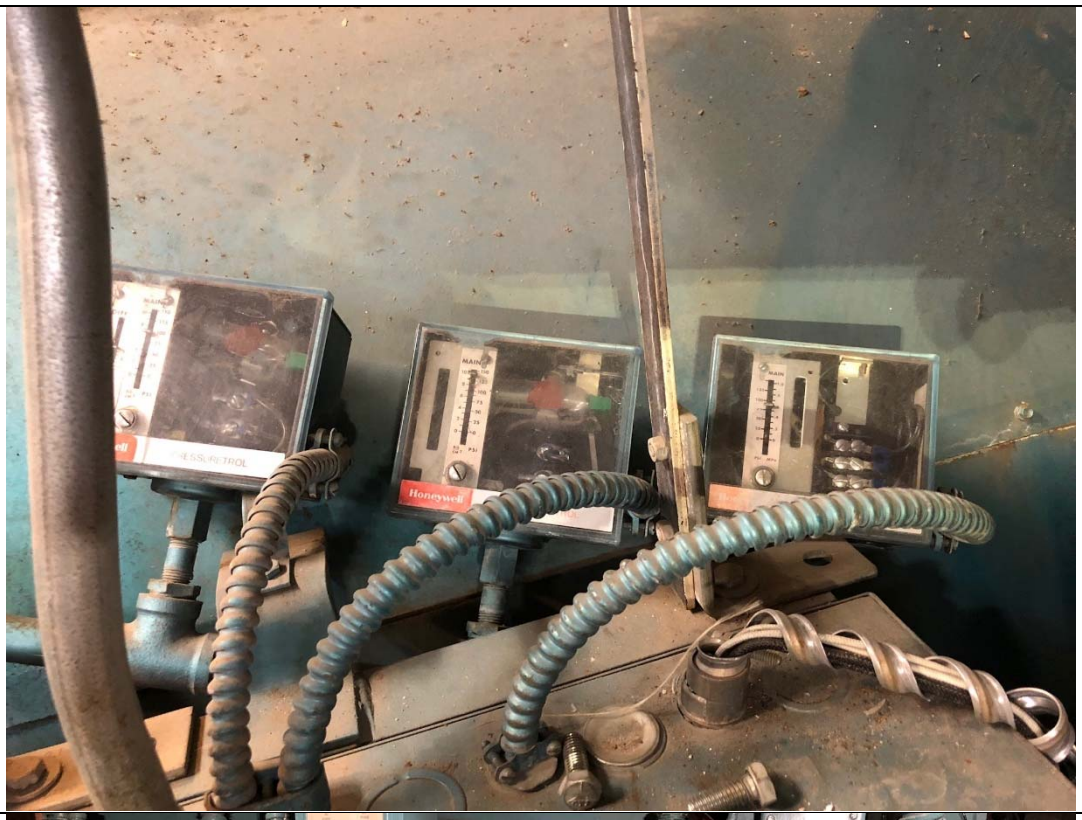


Photo No.	Date:
2	04/17/2018

Photo Coordinates	
Lat	45.649547
Long	-110.568817

Direction Photo Taken:
249.808580858086

Description:

Three mercury ampules observed on the generator in the hospital.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Livingston Memorial Hospital	Livingston, MT	0003/1802-06

Photo No.	Date:
3	04/17/2018

Photo Coordinates	
Lat	45.649247
Long	-110.568711

Direction Photo Taken:
205.334821428571

Description:

Transite flue material in the incinerator. Location of ACM sample LMH-IT01-01.

Photo No.	Date:
4	04/17/2018

Photo Coordinates	
Lat	45.648239
Long	-110.572114

Direction Photo Taken:
213.640138408304

Description:

ACM pipe flange gasket on steam tunnel piping. Location of sample LMH-PG01-03.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Livingston Memorial Hospital	Livingston, MT	0003/1802-06

Photo No.	Date:
5	04/17/2018

Photo Coordinates	
Lat	45.653286
Long	-110.566894

Direction Photo Taken:
242.482051282051

Description:

Air Cell piping observed above the dropped ceiling in the basement of the hospital.

Photo No.	Date:
6	04/17/2018

Photo Coordinates	
Lat	45.649417
Long	-110.568756

Direction Photo Taken:
352.317406143345

Description:

Container of transformer oil assumed to contain PCBs found in the basement of the hospital.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Livingston Memorial Hospital	Livingston, MT	0003/1802-06

Photo No.	Date:
7	04/17/2018

Photo Coordinates	
Lat	45.649192
Long	-110.568603

Direction Photo Taken:
106.608308605341

Description:

TSI debris in the soil of one of the crawlspaces.

Photo No.	Date:
8	04/17/2018

Photo Coordinates	
Lat	45.648117
Long	-110.594344

Direction Photo Taken:
134.821276595745

Description:

Mechanical room with no suspect materials observed.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Livingston Memorial Hospital	Livingston, MT	0003/1802-06

Photo No.	Date:
9	04/17/2018

Photo Coordinates	
Lat	45.649411
Long	-110.569528

Direction Photo Taken:
155.754838709677

Description:

Membrane roof on the hospital building.

Photo No.	Date:
10	04/17/2018

Photo Coordinates	
Lat	45.649558
Long	-110.569061

Direction Photo Taken:
60.4169014084507

Description:

ACM floor tile inside the hospital.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Livingston Memorial Hospital	Livingston, MT	0003/1802-06

Photo No. 11	Date: 04/17/2018
Photo Coordinates	
Lat	45.649464
Long	-110.569192
Direction Photo Taken: 9.33245844269466	
Description: Lead sheet metal in walls of the hospital building.	

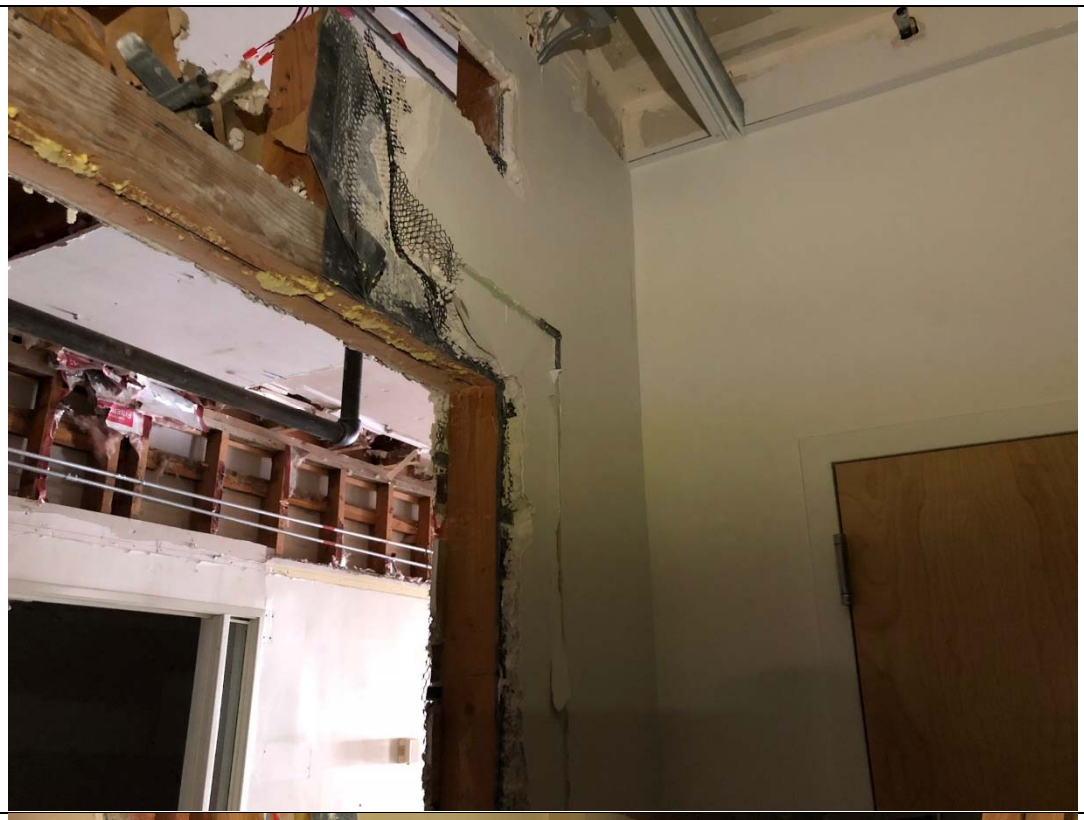


Photo No. 12	Date: 04/17/2018
Photo Coordinates	
Lat	45.649097
Long	-110.5691
Direction Photo Taken: 2.3511354079058	
Description: Note multiple layers of wall material present.	

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Livingston Memorial Hospital	Livingston, MT	0003/1802-06

Photo No. 13	Date: 04/17/2018
Photo Coordinates	
Lat	45.649236
Long	-110.570083
Direction Photo Taken: 274.873873873874	
Description: Air Cell TSI and mudded asbestos fittings.	

Photo No. 14	Date: 04/17/2018
Photo Coordinates	
Lat	45.649094
Long	-110.569206
Direction Photo Taken: 199.436363636364	
Description: Ceiling has been removed throughout most of the main level of the hospital.	

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Livingston Memorial Hospital	Livingston, MT	0003/1802-06

Photo No. 15	Date: 04/17/2018
Photo Coordinates	
Lat	45.64935
Long	-110.569008
Direction Photo Taken: 333.996632996633	
Description: Asbestos roof drain bowl in the hospital.	

Photo No. 16	Date: 04/17/2018
Photo Coordinates	
Lat	45.648181
Long	-110.592772
Direction Photo Taken: 32.3823857302118	
Description: Room with sinks with asbestos black undercoating in the basement of the hospital.	

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Livingston Memorial Hospital	Livingston, MT	0003/1802-06

Photo No. 17	Date: 04/17/2018
Photo Coordinates	
Lat	45.648556
Long	-110.569214
Direction Photo Taken: 215.200980392157	
Description: Utility shed with no ACM or LBP present.	

Photo No. 18	Date: 04/17/2018
Photo Coordinates	
Lat	45.649106
Long	-110.56945
Direction Photo Taken: 314.789644012945	
Description: Chipping LBP on exterior trim. Lead-in-soil aliquots were collected at these two building ends.	

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Livingston Memorial Hospital	Livingston, MT	0003/1802-06

Photo No.	Date:
19	04/18/2018

Photo Coordinates	
Lat	45.649303
Long	-110.568808

Direction Photo Taken:
113.316602316602

Description:

No ACM or LBP present in the Home Oxygen Building.

Photo No.	Date:
20	04/18/2018

Photo Coordinates	
Lat	45.649414
Long	-110.568847

Direction Photo Taken:
350.165605095541

Description:

Mercury thermostat observed in the Home Oxygen Building.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Livingston Memorial Hospital	Livingston, MT	0003/1802-06

Photo No.	Date:
21	04/18/2018

Photo Coordinates	
Lat	45.649269
Long	-110.569222

Direction Photo Taken:
317.488038277512

Description:

Lead-lined door observed in the hospital.

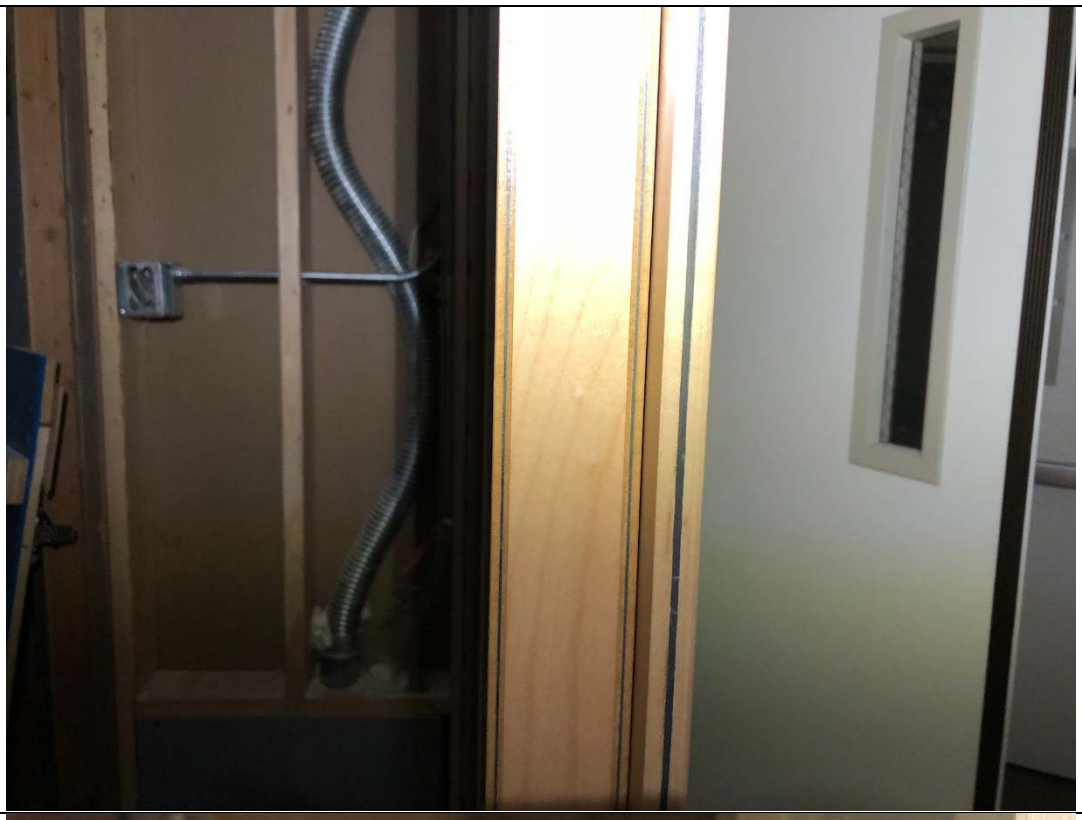


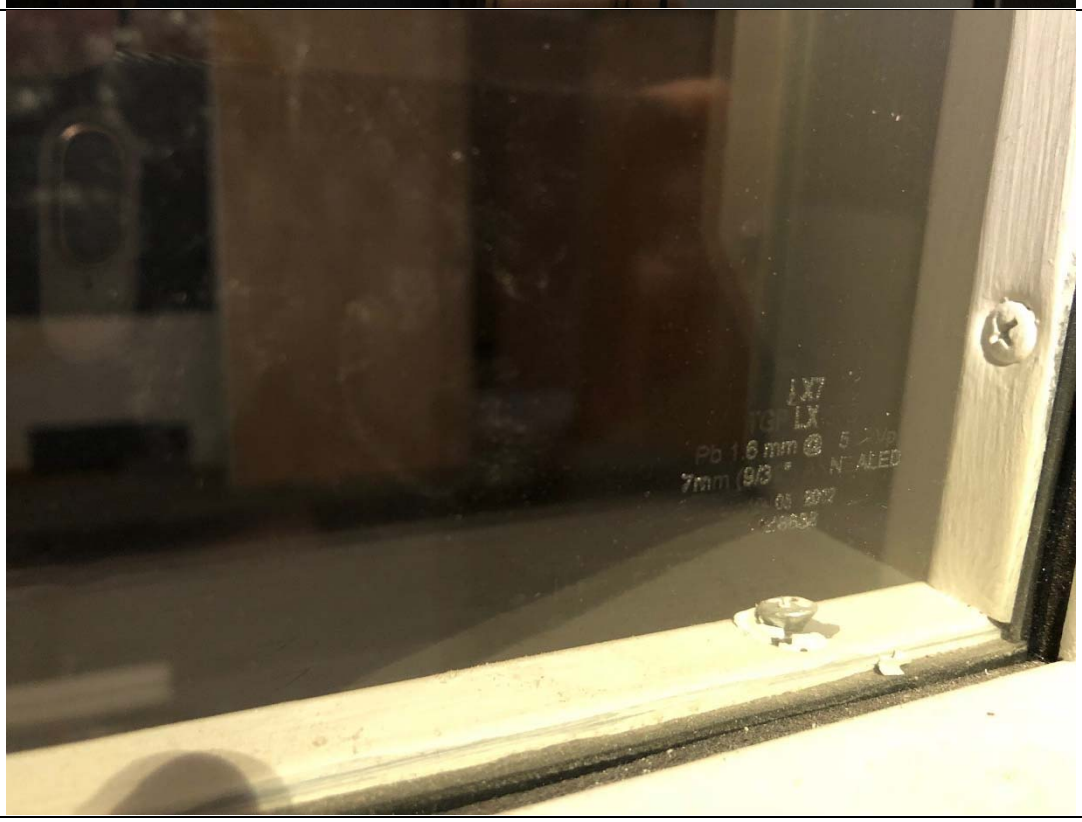
Photo No.	Date:
22	04/18/2018

Photo Coordinates	
Lat	45.649369
Long	-110.569022

Direction Photo Taken:
193.232524964337

Description:

Leaded glass observed in the hospital.



PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Livingston Memorial Hospital	Livingston, MT	0003/1802-06

Photo No.	Date:
23	04/18/2018

Photo Coordinates	
Lat	45.649314
Long	-110.569039

Direction Photo Taken:
185.268292682927

Description:

Gray asbestos window caulking.

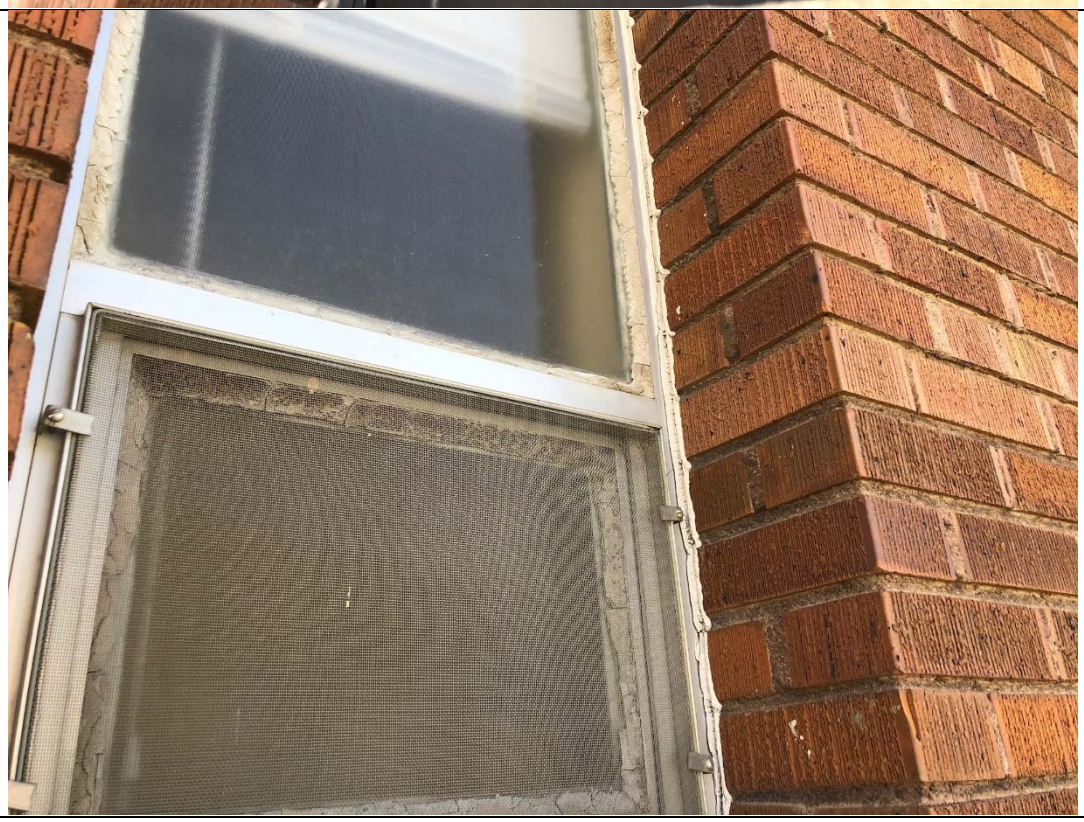
Photo No.	Date:
24	04/18/2018

Photo Coordinates	
Lat	45.649222
Long	-110.569847

Direction Photo Taken:
158.89519650655

Description:

White asbestos window caulking and glazing.



APPENDIX B
LABORATORY REPORT

REI LAB **Reservoirs Environmental, Inc.**

May 1, 2018

Subcontract Number:	**NA**
Laboratory Report:	**RES 406437-1**
Project # / P.O. #	**20408.016.003.0572.00**
Project Description:	**Livingston Memorial Hospital**

Michael Cherney
Weston Solutions, Inc. (CO)
1435 Garrison St. Ste. 100
Lakewood CO 80215

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 406437-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Elizabeth Martel for

Jeanne Spencer
President

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 406437-1**
Client: **Weston Solutions, Inc. (CO)**
Client Project Number / P.O.: **20408.016.003.0572.00**
Client Project Description: **Livingston Memorial Hospital**
Date Samples Received: **April 19, 2018**
Method: **EPA 600/R-93/116 - Short Report, Bulk**
Turnaround: **3-5 Day**
Date Samples Analyzed: **May 01, 2018**

ND=None Detected
TR=Trace, <1% Visual Estimate
Trem/Act=Tremolite/Actinolite

Client Sample Number	Lab ID Number	LAYER	Physical Description	Sub Part (%)	Asbestos Content: Mineral	Asbestos Content: Visual Estimate (%)	Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
SH-DW01-01	EM 2070178	A	White compound	TR		**ND**	0	100
		B	Light pink/tan drywall	100		**ND**	18	82
SH-DW01-02	EM 2070179	A	Off white compound	5		**ND**	0	100
		B	White compound	15		**ND**	0	100
		C	Light pink/tan drywall	80		**ND**	19	81
SH-DW01-03	EM 2070180	A	Off white compound	5		**ND**	0	100
		B	White compound	15		**ND**	0	100
		C	Light pink/tan drywall	80		**ND**	17	83
SH-RM01-04	EM 2070181	A	Black fibrous resinous material	30		**ND**	30	70
		B	Light gray shingle w/ a trace of black tar	70		**ND**	28	72
LMH-IT01-01	EM 2070182	A	Gray fibrous cementitious material	100	**Chrysotile**	**12**	0	88
LMH-HG01-02	EM 2070183	A	Tan/multi-colored fibrous material	100		**ND**	90	10
LMH-PG01-03	EM 2070184	A	Brown/multi-colored gasket	100	**Chrysotile**	**55**	20	25
LMH-FI01-04	EM 2070185	A	Brown rock w/ off white compound	100		**ND**	0	100

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

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Client Sample Number	Lab ID Number	LAYER	Physical Description	Sub Part (%)	Asbestos Content: Mineral	Asbestos Content: Visual Estimate (%)	Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
LMH-CB01-05	EM 2070186	A	Off white adhesive	1		**ND**	0	100
		B	Light gray cove base	99		**ND**	0	100
LMH-DT01-06	EM 2070187	A	Off white fibrous woven material w/ tan paint	30		**ND**	60	40
		B	White compound	70		**ND**	0	100
LMH-FM01-07	EM 2070188	A	Off white perlitic cementitious material w/ off white/multi-colored paint	100		**ND**	0	100
LMH-RM01-08	EM 2070189	A	Tan adhesive	5		**ND**	0	100
		B	Tan cementitious material	5		**ND**	0	100
		C	Off white/multi-colored fibrous resinous material	90		**ND**	17	83
LMH-WF01-09	EM 2070190	A	Black felt	100		**ND**	40	60
LMH-TF01-10	EM 2070191	A	Gray/multi-colored granular flooring	100		**ND**	0	100
LMH-TF02-11	EM 2070192	A	Tan/multi-colored granular flooring	100		**ND**	0	100
HOB-RM01-01	EM 2070193	A	Black fibrous resinous material	30		**ND**	25	75
		B	Tan/multi-colored shingle	70		**ND**	22	78

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

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ND=None Detected
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Client Sample Number	Lab ID Number	LAYER	Physical Description	Sub Part (%)	Asbestos Content: Mineral	Asbestos Content: Visual Estimate (%)	Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
HOB-CB01-02	EM 2070194	A	White compound	7		**ND**	0	100
		B	Off white adhesive	13		**ND**	0	100
		C	Tan cove base	80		**ND**	0	100
HOB-LN01-03	EM 2070195	A	White compound	2		**ND**	0	100
		B	Off white adhesive	3		**ND**	0	100
		C	Gray/multi-colored sheet vinyl w/ off white fibrous backing material	95		**ND**	28	72
HOB-DW01-04	EM 2070196	A	White fibrous woven material	5		**ND**	90	10
		B	White texture w/ off white paint	15		**ND**	0	100
		C	Light pink/tan drywall	80		**ND**	18	82
HOB-DW01-05	EM 2070197	A	White fibrous woven material	5		**ND**	95	5
		B	White texture w/ off white paint	30		**ND**	0	100
		C	Light pink/tan drywall	65		**ND**	32	68

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

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Client Sample Number	**Lab ID Number**	LAYER	Physical Description	Sub Part (%)	**Asbestos Content** Mineral	**Visual Estimate (%)**	Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
HOB-DW01-06	EM 2070198	A	White texture w/ off white paint	14		**ND**	0	100
		B	Light pink/tan drywall	86		**ND**	18	82
HOB-DW01-07	EM 2070199	A	White texture w/ off white paint	12		**ND**	0	100
		B	Light pink/tan drywall	88		**ND**	18	82
HOB-CB02-08	EM 2070200	A	White compound	2		**ND**	0	100
		B	Off white adhesive	3		**ND**	0	100
		C	Tan cove base	95		**ND**	0	100
HOB-LN02-09	EM 2070201	A	Tan adhesive	2		**ND**	0	100
		B	Tan/multi-colored sheet vinyl	98		**ND**	30	70
HOB-DW02-10	EM 2070202	A	Off white/multi-colored paint w/ white compound	15		**ND**	0	100
		B	Off white/tan drywall	85		**ND**	17	83

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

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Client Sample Number	**Lab ID Number**	LAYER	Physical Description	Sub Part (%)	**Asbestos Content** Mineral	**Visual Estimate (%)**	Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
HOB-DW02-11	EM 2070203	A	White fibrous woven material	5		**ND**	95	5
		B	Tan/off white drywall	15		**ND**	55	45
		C	White texture w/ off white/multi-colored paint	80		**ND**	0	100
HOB-DW02-12	EM 2070204	A	White compound w/ off white/multi-colored paint	9		**ND**	0	100
		B	Light pink/tan drywall	91		**ND**	18	82

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

Daniel Erhard

Daniel Erhard
Analyst / Data QA

Due Date: 4-24-4-26
Due Time: _____

-1PLM -2TEM

Reservoirs Environmental, Inc.

5801 Logan St. Denver, CO 80216 • Ph: 303 964-1986 • Fax 303-477-4275 • Toll Free :866 RESI-ENV

RES 406437

After Hours Cell Phone: 720-339-9228

INVOICE TO: (IF DIFFERENT)

CONTACT INFORMATION: -3MM

Company: **Weston Solutions, Inc**	Company: **Weston Solutions, Inc**	Contact: **Michael Cherny**	Contact:
Address: 1435 Garrison St Suite 100	Address:	Phone:	Phone:
Lakewood, CO 80215		Fax:	Fax:
		Cell/pager: 720-206-8724	Cell/pager:
Project Number and/or P.O. #: 20408.016.003.0572.00		Final Data Deliverable Email Address:	
Project Description/Location: Livingston Memorial Hospital		michael.cherny@mecx.net	

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm

PLM / PCM / TEM ___ RUSH (Same Day) ___ PRIORITY (Next Day) X STANDARD
(Rush PCM = 2hr, TEM = 6hr.)

CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm

Metal(s) / Dust ___ RUSH ___ 24 hr. X 3-5 Day
RCRA 8 / Metals & Welding Fume Scan / TCLP ___ RUSH ___ 5 day ___ 10 day
Organics ___ 24 hr. ___ 3 day ___ 5 Day
****Prior notification is required for RUSH turnarounds.****

MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm

E.coli O157:H7, Coliforms, S.aureus ___ 24 hr. ___ 2 Day ___ 3-5 Day
Salmonella, Listeria, E.coli, APC, Y & M ___ 48 Hr. ___ 3-5 Day
Mold ___ RUSH ___ 24 Hr ___ 48 Hr ___ 3 Day ___ 5 Day

****Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays.****

Special Instructions:

VALID MATRIX CODES

Air = A	Bulk = B
Dust = D	Paint = P
Soil = S	Wipe = W
Swab = SW	F = Food
Drinking Water = DW	Waste Water = WW
O = Other	

ASTM E1792 approved wipe media only

LAB NOTES:

REQUESTED ANALYSIS

	Client sample ID number (Sample ID's must be unique)	PLM - Short report, Long report, Point Count	TEM - AHERA, Level II (7402), ISO, +/-, Quant, Semi-quant, Micro-vac, ISO-Indirect Preps	PCM - 7400A, 7400B, OSHA	DUST - Total, Respirable	METALS - Analyte(s) Lead, RCRA 8, TCLP, Welding Fume, Metals Scan	ORGANICS - METH	MICROBIOLOGY: Salmonella: +/-	E.coli O157:H7: +/-	Listeria: +/-	Aerobic Plate Count: +/- or Quantification	E.coli: +/- or Quantification	Coliforms: +/- or Quantification	S.aureus: +/- or Quantification	Y & M: +/- or Quantification	Mold: +/-, Identification, Quantification	SAMPLER'S INITIALS OR OTHER NOTES	Sample Volume (L) / Area	Matrix Code	# Containers	Date Collected mm/dd/yy	Time Collected hh/mm a/p	EM Number (Laboratory Use Only) 78
1	SH-DW01-01	X																	B	1	4/17/2018		207075
2	SH-DW01-02	X																	B	1	4/17/2018		96
3	SH-DW01-03	X																	B	1	4/17/2018		807
4	SH-RM01-04	X																	B	1	4/17/2018		18
5	LMH-IT01-01	X																	B	1	4/17/2018		29
6	LMH-HG01-02	X																	B	1	4/17/2018		380
7	LMH-PG01-03	X																	B	1	4/17/2018		47
8	LMH-FI01-04	X																	B	1	4/17/2018		52
9	LMH-CB01-05	X																	B	1	4/17/2018		63
10	LMH-DT01-06	X																	B	1	4/17/2018		74

Number of samples received: 40 (Additional samples shall be listed on attached long form.)

NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days, failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By: [signature] Date/Time: 4/18/18 17:00

Sample Condition: On Ice Yes / No Sealed Yes / No Intact Yes / No
Temp. (F°) _____

Laboratory Use Only
Received By: Date/Time: Carrier:

Results:	Contact	Phone Email Fax	Date	Time	Initials	Contact	Phone Email Fax	Date	Time	Initials
	Contact	Phone Email Fax	Date	Time	Initials	Contact	Phone Email Fax	Date	Time	Initials

Reservoirs Environmental, Inc.
5801 Logan St. Denver, CO 80216 • Ph: 303 964-1986 • Fax 303-477-4275 • Toll Free 866 RESI-ENV

RES Job # 406437

Submitted by: _____

VALID MATRIX CODES

Air = A	Bulk = B
Dust = D	Paint = P
Soil = S	Wipe = W
Swab = SW	F = Food
Drinking Water = DW	Waste Water = WW
O = Other	

ASTM E1792 approved wipe media only

LAB NOTES:

REQUESTED ANALYSIS

	Client sample ID number (Sample ID's must be unique)	PLM - Short report, Long report, Point Count	TEM - AHERA, Level II, 7402 ISO +/-, Quant, Semi-quant, Micro-vac, ISO-Indirect Preps	PCM - 7400A, 7400B, OSHA	DUST - Total, Respirable	METALS - Analyte(s) Lead RCRA 8, TCLP, Welding Fume, Metals Scan	ORGANICS - METH	MICROBIOLOGY: Salmonella: +/-	E.coli O157:H7: +/-	Listeria: +/-	Aerobic Plate Count: +/- or Quantification	E.coli: +/- or Quantification	Coliforms: +/- or Quantification	S.aureus: +/- or Quantification	Y & M: +/- or Quantification	Mold: +/- or Quantification	OTHER -	Sample Volume (L) / Area	Matrix Code	# Containers	Date Collected mm/dd/yy	Time Collected hh/mm a/p	EM Number (Laboratory Use Only)
11	LMH-FM01-07	X																	B	1	4/17/2018		207168
12	LMH-RM01-08	X																	B	1	4/17/2018		9 67
13	LMH-WF01-09	X																	B	1	4/17/2018		90 7
14	LMH-TF01-10	X																	B	1	4/17/2018		1 8
15	LMH-TF02-11	X																	B	1	4/17/2018		2 9
16	HOB-RM01-01	X																	B	1	4/18/2018		3 90
17	HOB-CB01-02	X																	B	1	4/18/2018		4 1
18	HOB-LN01-03	X																	B	1	4/18/2018		5 2
19	HOB-DW01-04	X																	B	1	4/18/2018		6 3
20	HOB-DW01-05	X																	B	1	4/18/2018		7 4
21	HOB-DW01-06	X																	B	1	4/18/2018		8 5
22	HOB-DW01-07	X																	B	1	4/18/2018		9 6
23	HOB-CB02-08	X																	B	1	4/18/2018		200 7
24	HOB-LN02-09	X																	B	1	4/18/2018		1 8
25	HOB-DW02-10	X																	B	1	4/18/2018		2 9
26	HOB-DW02-11	X																	B	1	4/18/2018		3 200
27	HOB-DW02-12	X																	B	1	4/18/2018		4 1
28	LMH-WP00		X																W	1	4/18/2018		5 2
29	LMH-WP01		X																W	1	4/18/2018		6 3
30	LMH-WP02		X																W	1	4/18/2018		7 4
31	LMH-WP03		X																W	1	4/18/2018		8 5
32	LMH-WP04		X																W	1	4/18/2018		9 6
33	LMH-WP05		X																W	1	4/18/2018		10 7
34	LMH-WP06		X																W	1	4/18/2018		1 8
35	LMH-WP07		X																W	1	4/18/2018		2 9
36	LMH-WP08		X																W	1	4/18/2018		3 10
37	LMH-WP09		X																W	1	4/18/2018		4 1
38	LMH-WP10		X																W	1	4/18/2018		5 2
39	LMH-SO01-0001					X													S	1	4/17/2018		6 3
40	LMH-SO91-0001					X													S	1	4/17/2018		7 4
41																							

REI LAB **Reservoirs Environmental, Inc.**

April 26, 2018

Subcontract Number:	**NA**
Laboratory Report:	**RES 406437-2**
Project # / P.O. #	**20408.016.003.0572.00**
Project Description:	**Livingston Memorial Hospital**

Michael Cherney
Weston Solutions, Inc. (CO)
1435 Garrison St. Ste. 100
Lakewood CO 80215

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 406437-2 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Gina Vettraino for

Jeanne Spencer
President

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Lab Code 101896-0

TABLE : TEM QUALITATIVE PRESENCE/ABSENCE ANALYSIS

RES Job Number:	**RES 406437-2**
Client:	**Weston Solutions, Inc. (CO)**
Client Project Number/P.O:	**20408.016.003.0572.00**
Client Project Description	**Livingston Memorial Hospital**
Date Samples Received:	**April 19, 2018**
Method:	**ASTM 6480 - M Qual. Presence/Absence, Wipe**
Turnaround:	**3-5 Day**
Date Analyzed:	**April 22, 2018**

Client ID Number	Lab ID Number		Asbestos Minerals Present
LMH-WP00	EM	2070205	ND
LMH-WP01	EM	2070206	Chrysotile
LMH-WP02	EM	2070207	Chrysotile
LMH-WP03	EM	2070208	Chrysotile Amosite
LMH-WP04	EM	2070209	Chrysotile
LMH-WP05	EM	2070210	Chrysotile
LMH-WP06	EM	2070211	Chrysotile
LMH-WP07	EM	2070212	Chrysotile
LMH-WP08	EM	2070213	Chrysotile Amosite
LMH-WP09	EM	2070214	Chrysotile
LMH-WP10	EM	2070215	Chrysotile

Data QA: Gina Vettraino

Due Date: 4-24-4-26
Due Time:

-1PLM -2TEM

RES 406437

REI LAB Reservoirs Environmental, Inc.

5801 Logan St. Denver, CO 80216 • Ph: 303 964-1986 • Fax 303-477-4275 • Toll Free :866 RESI-ENV

After Hours Cell Phone: 720-339-9228

INVOICE TO: (IF DIFFERENT)

Company:	Weston Solutions, Inc
Address:	1435 Garrison St Suite 100 Lakewood, CO 80215
Company:	Weston Solutions, Inc
Address:	

CONTACT INFORMATION: -3MM

Contact:	Michael Cherny
Phone:	
Fax:	
Cell/pager:	720-206-8724
Final Data Deliverable Email Address:	michael.cherny@mecx.net
Contact:	
Phone:	
Fax:	
Cell/pager:	

Project Number and/or P.O. #:	20408.016.003.0572.00
Project Description/Location:	Livingston Memorial Hospital

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm

PLM / PCM / TEM ____ RUSH (Same Day) ___ PRIORITY (Next Day) X STANDARD
(Rush PCM = 2hr, TEM = 6hr.)

CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm

Metal(s) / Dust ___ RUSH ___ 24 hr. X 3-5 Day
RCRA 8 / Metals & Welding Fume Scan / TCLP ___ RUSH ___ 5 day ___10 day
Organics ___ 24 hr. ___ 3 day ___5 Day
****Prior notification is required for RUSH turnarounds.****

MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm

E.coli O157:H7, Coliforms, S.aureus ___ 24 hr. ___2 Day ___3-5 Day
Salmonella, Listeria, E.coli, APC, Y & M ___ 48 Hr. ___3-5 Day
Mold ___ RUSH ___24 Hr ___48 Hr ___3 Day ___5 Day

****Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays.****

Special Instructions:

VALID MATRIX CODES

Air = A	Bulk = B
Dust = D	Paint = P
Soil = S	Wipe = W
Swab = SW	F = Food
Drinking Water = DW	Waste Water = WW
O = Other	

ASTM E1792 approved wipe media only

LAB NOTES:

REQUESTED ANALYSIS

	Client sample ID number (Sample ID's must be unique)	PLM - Short report, Long report, Point Count	TEM - AHERA, Level II, 7402, ISO, +/-, Quant, Semi-quant, Micro-vac, ISO-Indirect Preps	PCM - 7400A, 7400B, OSHA	DUST - Total, Respirable	METALS - Analyte(s) LEAD RCRA 8, TCLP, Welding Fume, Metals Scan	ORGANICS - METH	MICROBIOLOGY: Salmonella: +/-	E.coli O157:H7: +/-	Listeria: +/-	Aerobic Plate Count: +/- or Quantification	E.coli: +/- or Quantification	Coliforms: +/- or Quantification	S.aureus: +/- or Quantification	Y & M: +/- or Quantification	Mold: +/-, Identification, Quantification	SAMPLER'S INITIALS OR OTHER NOTES	Sample Volume (L) / Area	Matrix Code	# Containers	Date Collected mm/dd/yy	Time Collected hh/mm a/p	EM Number (Laboratory Use Only)
1	SH-DW01-01	X																	B	1	4/17/2018		2070178
2	SH-DW01-02	X																	B	1	4/17/2018		96
3	SH-DW01-03	X																	B	1	4/17/2018		807
4	SH-RM01-04	X																	B	1	4/17/2018		18
5	LMH-IT01-01	X																	B	1	4/17/2018		25
6	LMH-HG01-02	X																	B	1	4/17/2018		380
7	LMH-PG01-03	X																	B	1	4/17/2018		41
8	LMH-FI01-04	X																	B	1	4/17/2018		52
9	LMH-CB01-05	X																	B	1	4/17/2018		63
10	LMH-DT01-06	X																	B	1	4/17/2018		74

Number of samples received: 40 (Additional samples shall be listed on attached long form.)

NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days, failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By: Date/Time: 4/18/18 17:00

Laboratory Use Only
Received By: Elizabeth Mauk Date/Time: 4.19.18 12 Carrier: Fedex

Sample Condition: On Ice Yes / No Sealed Yes / No Intact Yes / No
Temp. (F°) _____

Results:	Contact	Phone	Email	Fax	Date	Time	Initials	Contact	Phone	Email	Fax	Date	Time	Initials
	Contact	Phone	Email	Fax	Date	Time	Initials	Contact	Phone	Email	Fax	Date	Time	Initials

REI LAB Reservoirs Environmental, Inc.
5801 Logan St. Denver, CO 80216 • Ph: 303 964-1986 • Fax 303-477-4275 • Toll Free :866 RESI-ENV

RES Job # 406437

Page 2 of 2

Submitted by: _____

	Client sample ID number (Sample ID's must be unique)	PLM - Short report, Long report, Point Count	TEM - AHERA, Level II, (7402) ISO, +/-, Quant, Semi-quant, Micro-vac, ISO-Indirect Preps	PCM - 7400A, 7400B, OSHA	DUST - Total, Respirable	METALS - Analyte(s) Lead RCRA 8, TCLP, Welding Fume, Metals Scan	ORGANICS - METH	MICROBIOLOGY: Salmonella: +/-	E.coli O157:H7: +/-	Listeria: +/-	Aerobic Plate Count: +/- or Quantification	E.coli: +/- or Quantification	Coliforms: +/- or Quantification	S.aureus: +/- or Quantification	Y & M: +/- or Quantification	Mold: +/- or Quantification	OTHER -	Sample Volume (L) / Area	Matrix Code	# Containers	Date Collected mm/dd/yy	Time Collected hh/mm a/p	EM Number (Laboratory Use Only)
11	LMH-FM01-07	X																	B	1	4/17/2018		2071188
12	LMH-RM01-08	X																	B	1	4/17/2018		9 67
13	LMH-WF01-09	X																	B	1	4/17/2018		90 7
14	LMH-TF01-10	X																	B	1	4/17/2018		1 8
15	LMH-TF02-11	X																	B	1	4/17/2018		2 9
16	HOB-RM01-01	X																	B	1	4/18/2018		3 90
17	HOB-CB01-02	X																	B	1	4/18/2018		4 1
18	HOB-LN01-03	X																	B	1	4/18/2018		5 2
19	HOB-DW01-04	X																	B	1	4/18/2018		6 3
20	HOB-DW01-05	X																	B	1	4/18/2018		7 4
21	HOB-DW01-06	X																	B	1	4/18/2018		8 5
22	HOB-DW01-07	X																	B	1	4/18/2018		9 6
23	HOB-CB02-08	X																	B	1	4/18/2018		200 7
24	HOB-LN02-09	X																	B	1	4/18/2018		1 8
25	HOB-DW02-10	X																	B	1	4/18/2018		2 9
26	HOB-DW02-11	X																	B	1	4/18/2018		3 200
27	HOB-DW02-12	X																	B	1	4/18/2018		4 1
28	LMH-WP00		X																W	1	4/18/2018		5 2
29	LMH-WP01		X																W	1	4/18/2018		6 3
30	LMH-WP02		X																W	1	4/18/2018		7 4
31	LMH-WP03		X																W	1	4/18/2018		8 5
32	LMH-WP04		X																W	1	4/18/2018		9 6
33	LMH-WP05		X																W	1	4/18/2018		10 7
34	LMH-WP06		X																W	1	4/18/2018		1 8
35	LMH-WP07		X																W	1	4/18/2018		2 9
36	LMH-WP08		X																W	1	4/18/2018		3 10
37	LMH-WP09		X																W	1	4/18/2018		4 1
38	LMH-WP10		X																W	1	4/18/2018		5 2
39	LMH-SO01-0001					X													S	1	4/17/2018		6 5
40	LMH-SO91-0001					X													S	1	4/17/2018		7 6
41																							

VALID MATRIX CODES

Air = A	Bulk = B
Dust = D	Paint = P
Soil = S	Wipe = W
Swab = SW	F = Food
Drinking Water = DW	Waste Water = WW
O = Other	

ASTM E1792 approved wipe media only

LAB NOTES:

REI LAB **Reservoirs Environmental, Inc.**

April 26, 2018

Laboratory Code:	**RES**
Subcontract Number:	**NA**
Laboratory Report:	**RES 406437-3**
Project # / PO #:	**20408.016.003.0572.00**
Project Description:	**Livingston Memorial Hospital**

Michael Cherney
Weston Solutions, Inc. (CO)
1435 Garrison St. Ste. 100
Lakewood CO 80215

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the American Industrial Hygiene Association, Lab ID 101533 - Accreditation Certificate #480. The laboratory is currently proficient in both IHPAT & ELPAT programs respectively.

Reservoirs has analyzed the following sample(s) using Atomic Absorption Spectroscopy (AAS) / Atomic Emission Spectroscopy - Mass Spectrometry (ICP-MS) per your request. Reported sample results were not blank corrected. The analysis has been completed in general accordance with the appropriate methodology as stated in the analysis table. Results have been sent to your office.

RES 406437-3 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those authorized by the client. The results described in this report only apply to the samples analyzed. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you should have any questions about this report, please feel free to call me at 303-964-1986.

Sincerely,

Jeanne Spencer
President

RESERVOIRS ENVIRONMENTAL, INC.

5801 Logan St., Suite 100
Denver CO 80216

TABLE ANALYSIS: LEAD IN SOIL

RES Job Number:	**RES 406437-3**
Client:	**Weston Solutions, Inc. (CO)**
Client Project Number / P.O.:	**20408.016.003.0572.00**
Client Project Description:	**Livingston Memorial Hospital**
Date Samples Received:	**April 19, 2018**
Analysis Type:	**USEPA SW846 3050B / AA (7420)**
Turnaround:	**3-5 Day**
Date Samples Analyzed:	**April 24, 2018**

Client ID Number	**Lab ID Number**	**Reporting Limit (mg/kg)**	**LEAD CONCENTRATION (mg/kg)**
LMH-SO01-0001	EM 2070216	24.3	30.1
LMH-SO91-0001	EM 2070217	7.9	25.7

*** Unless otherwise noted all quality control samples performed within specifications established by the laboratory.**

Renee A. Cortez

Analyst / Data QA:_____

Due Date: 4-24-4-26
Due Time:

-1PLM -2TEM

RES 406437

REI LAB Reservoirs Environmental, Inc.

5801 Logan St. Denver, CO 80216 • Ph: 303 964-1986 • Fax 303-477-4275 • Toll Free :866 RESI-ENV

After Hours Cell Phone: 720-339-9228

INVOICE TO: (IF DIFFERENT)

Company:	Weston Solutions, Inc
Address:	1435 Garrison St Suite 100 Lakewood, CO 80215
Company:	Weston Solutions, Inc
Address:	

CONTACT INFORMATION: -3MM

Contact:	Michael Cherny
Phone:	
Fax:	
Cell/pager:	720-206-8724
Final Data Deliverable Email Address:	michael.cherny@mecx.net
Contact:	
Phone:	
Fax:	
Cell/pager:	

Project Number and/or P.O. #:	20408.016.003.0572.00
Project Description/Location:	Livingston Memorial Hospital

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm

PLM / PCM / TEM ____ RUSH (Same Day) ___ PRIORITY (Next Day) X STANDARD
(Rush PCM = 2hr, TEM = 6hr.)

CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm

Metal(s) / Dust ___ RUSH ___ 24 hr. X 3-5 Day
RCRA 8 / Metals & Welding Fume Scan / TCLP ___ RUSH ___ 5 day ___10 day
Organics ___ 24 hr. ___ 3 day ___5 Day
****Prior notification is required for RUSH turnarounds.****

MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm

E.coli O157:H7, Coliforms, S.aureus ___ 24 hr. ___2 Day ___3-5 Day
Salmonella, Listeria, E.coli, APC, Y & M ___ 48 Hr. ___3-5 Day
Mold ___ RUSH ___24 Hr ___48 Hr ___3 Day ___5 Day

****Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays.****

Special Instructions:

VALID MATRIX CODES

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Dust = D	Paint = P
Soil = S	Wipe = W
Swab = SW	F = Food
Drinking Water = DW	Waste Water = WW
O = Other	

ASTM E1792 approved wipe media only

LAB NOTES:

REQUESTED ANALYSIS

	Client sample ID number (Sample ID's must be unique)	PLM - Short report, Long report, Point Count	TEM - AHERA, Level II, 7402, ISO, +/-, Quant, Semi-quant, Micro-vac, ISO-Indirect Preps	PCM - 7400A, 7400B, OSHA	DUST - Total, Respirable	METALS - Analyte(s) LEAD RCRA 8, TCLP, Welding Fume, Metals Scan	ORGANICS - METH	MICROBIOLOGY: Salmonella: +/-	E.coli O157:H7: +/-	Listeria: +/-	Aerobic Plate Count: +/- or Quantification	E.coli: +/- or Quantification	Coliforms: +/- or Quantification	S.aureus: +/- or Quantification	Y & M: +/- or Quantification	Mold: +/-, Identification, Quantification	SAMPLER'S INITIALS OR OTHER NOTES	Sample Volume (L) / Area	Matrix Code	# Containers	Date Collected mm/dd/yy	Time Collected hh/mm a/p	EM Number (Laboratory Use Only)
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9	LMH-CB01-05	X																	B	1	4/17/2018		63
10	LMH-DT01-06	X																	B	1	4/17/2018		74

Number of samples received: 40 (Additional samples shall be listed on attached long form.)

NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days, failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By: Date/Time: 4/18/18 17:00

Laboratory Use Only
Received By: Elizabeth Mauk Date/Time: 4.19.18 12 Carrier: Fedex

Sample Condition: On Ice Yes / No Sealed Yes / No Intact Yes / No
Temp. (F°) _____

Results:	Contact	Phone	Email	Fax	Date	Time	Initials	Contact	Phone	Email	Fax	Date	Time	Initials
	Contact	Phone	Email	Fax	Date	Time	Initials	Contact	Phone	Email	Fax	Date	Time	Initials

REI LAB Reservoirs Environmental, Inc.
5801 Logan St. Denver, CO 80216 • Ph: 303 964-1986 • Fax 303-477-4275 • Toll Free :866 RESI-ENV

RES Job # 406437

Page 2 of 2

Submitted by: _____

	Client sample ID number (Sample ID's must be unique)	PLM - Short report, Long report, Point Count	TEM - AHERA, Level II, (7402) ISO, +/-, Quant, Semi-quant, Micro-vac, ISO-Indirect Preps	PCM - 7400A, 7400B, OSHA	DUST - Total, Respirable	METALS - Analyte(s) Lead RCRA 8, TCLP, Welding Fume, Metals Scan	ORGANICS - METH	MICROBIOLOGY: Salmonella: +/-	E.coli O157:H7: +/-	Listeria: +/-	Aerobic Plate Count: +/- or Quantification	E.coli: +/- or Quantification	Coliforms: +/- or Quantification	S.aureus: +/- or Quantification	Y & M: +/- or Quantification	Mold: +/- or Quantification	OTHER -	Sample Volume (L) / Area	Matrix Code	# Containers	Date Collected mm/dd/yy	Time Collected hh/mm a/p	EM Number (Laboratory Use Only)
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12	LMH-RM01-08	X																	B	1	4/17/2018		9 67
13	LMH-WF01-09	X																	B	1	4/17/2018		90 7
14	LMH-TF01-10	X																	B	1	4/17/2018		1 8
15	LMH-TF02-11	X																	B	1	4/17/2018		2 9
16	HOB-RM01-01	X																	B	1	4/18/2018		3 90
17	HOB-CB01-02	X																	B	1	4/18/2018		4 1
18	HOB-LN01-03	X																	B	1	4/18/2018		5 2
19	HOB-DW01-04	X																	B	1	4/18/2018		6 3
20	HOB-DW01-05	X																	B	1	4/18/2018		7 4
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26	HOB-DW02-11	X																	B	1	4/18/2018		3 200
27	HOB-DW02-12	X																	B	1	4/18/2018		4 1
28	LMH-WP00		X																W	1	4/18/2018		5 2
29	LMH-WP01		X																W	1	4/18/2018		6 3
30	LMH-WP02		X																W	1	4/18/2018		7 4
31	LMH-WP03		X																W	1	4/18/2018		8 5
32	LMH-WP04		X																W	1	4/18/2018		9 6
33	LMH-WP05		X																W	1	4/18/2018		10 7
34	LMH-WP06		X																W	1	4/18/2018		1 8
35	LMH-WP07		X																W	1	4/18/2018		2 9
36	LMH-WP08		X																W	1	4/18/2018		3 10
37	LMH-WP09		X																W	1	4/18/2018		4 1
38	LMH-WP10		X																W	1	4/18/2018		5 2
39	LMH-SO01-0001					X													S	1	4/17/2018		6 5
40	LMH-SO91-0001					X													S	1	4/17/2018		7 6
41																							

VALID MATRIX CODES

Air = A	Bulk = B
Dust = D	Paint = P
Soil = S	Wipe = W
Swab = SW	F = Food
Drinking Water = DW	Waste Water = WW
O = Other	

ASTM E1792 approved wipe media only

LAB NOTES:

APPENDIX C
SUPPLEMENTARY INFORMATION

ATTACHMENT B

Inspector Accreditation Certifications

ROGER W HERMAN

has met the requirements of Montana Administrative Rule 17.74.362 and/or 17.74.363 for accreditation in the following asbestos occupation(s) through the specified expiration date(s).

MTA-1857

Asbestos Inspector	08/17/2019
Management Planner	11/15/2018
Project Contractor/Supervisor	09/21/2019
Project Designer	11/16/2018

MT DEQ Asbestos Control Program

United States Environmental Protection Agency

This is to certify that

Roger Wayne Herman Jr

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires October 02, 2019

LBP-R-4020-1

Certification #

August 31, 2016

Issued On

Adrienne Priselac, Manager, Toxics Office

Land Division

DANIEL LAWRENCE

has met the requirements of Montana Administrative Rule 17.74.362 and/or 17.74.363 for accreditation in the following asbestos occupation(s) through the specified expiration date(s).

MTA-4055

Asbestos Inspector	03/16/2019
Project Contractor/Supervisor	10/19/2019

MT DEQ Asbestos Control Program

CODY KNOWLTON

has met the requirements of Montana Administrative Rule 17.74.362 and/or 17.74.363 for accreditation in the following asbestos occupation(s) through the specified expiration date(s).

MTA-4054

Asbestos Inspector	02/12/2019
Project Contractor/Supervisor	01/03/2020

MT DEQ Asbestos Control Program

United States Environmental Protection Agency

This is to certify that

Roger Wayne Herman Jr

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires October 02, 2019

LBP-R-4020-1

Certification #

August 31, 2016

Issued On

Adrienne Priselac, Manager, Toxics Office

Land Division

ATTACHMENT C

Laboratory Analytical Reports

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech
618 South 25th St
Billings, MT 59101

Customer Project: 117-8292002.200, Livingston Hospital
Reference #: CAL18085753AG Date: 8/28/2018

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be delectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

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Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-8292002.200, Livingston Hospital **CA Labs Project #:** CAL18085753AG

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
LH-F1.1A	*LH-F1.1A-2*	*black and brown mastic*	***2% Chrysotile***	***black and brown mastic***

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Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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Polarized Light Asbestiform Materials Characterization

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Tetra Tech
618 South 25th St
Billings, MT 59101

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-8292002.200, Livingston Hospital
Turnaround Time:
2 days

CA Labs Project #:
CAL18085753AG

Date: 8/28/2018
Samples Received: 8/24/18 10:30AM
Date Of Sampling: 7/31/2018
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
LH-F1.1A		*LH-F1.1A-1*	*tan flooring*	*n*	***None Detected***		100% qu,ma
		LH-F1.1A-2	*black and brown mastic*	*n*	***2% Chrysotile***		98% qu,bi
LH-F1.1B		*LH-F1.1B-1*	*tan flooring*	*n*	***None Detected***		100% qu,ma
		LH-F1.1B-2	*black and brown mastic*		*Positive Stop*		
LH-F1.1C		*LH-F1.1C-1*	*tan flooring*	*n*	***None Detected***		100% qu,ma
		LH-F1.1C-2	*black and brown mastic*		*Positive Stop*		
LH-F2.1A		*LH-F2.1A-1*	*tan floor tile*	*y*	***None Detected***		100% qu,ca

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gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Stanley Massett
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

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10. TEM analysis suggested

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Purchase Order #:

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		LH-F2.1A-2	*tan mastic*	*y*	***None Detected***		100% qu,bi
		LH-F2.1A-3	*tan leveling plaster*	*y*	***None Detected***		100% qu,ca
LH-F2.1B		*LH-F2.1B-1*	*tan floor tile*	*y*	***None Detected***		100% qu,ca
		LH-F2.1B-2	*tan mastic*	*y*	***None Detected***		100% qu,bi
		LH-F2.1B-3	*tan leveling plaster*	*y*	***None Detected***		100% qu,ca
LH-F2.1C		*LH-F2.1C-1*	*tan floor tile*	*y*	***None Detected***		100% qu,ca
		LH-F2.1C-2	*tan mastic*	*y*	***None Detected***		100% qu,bi

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ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

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Senior Analyst
Julio Robles

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CA Labs Project #:
CAL18085753AG

Date: 8/28/2018
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Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		LH-F2.1C-3	*tan leveling plaster*	*y*	***None Detected***		100% qu,ca
LH-F5.1A		*LH-F5.1A-1*	*brown mastic*	*y*	***None Detected***		100% qu,bi
LH-F5.1B		*LH-F5.1B-1*	*brown mastic*	*y*	***None Detected***		100% qu,bi
LH-F5.1C		*LH-F5.1C-1*	*brown mastic*	*y*	***None Detected***		100% qu,bi
LH-F7.1A		*LH-F7.1A-1*	*tan ceramic tile*	*y*	***None Detected***		100% qu,ot
		LH-F7.1A-2	*white grouting*	*y*	***None Detected***		100% qu,ca
LH-F7.1B		*LH-F7.1B-1*	*tan ceramic tile*	*y*	***None Detected***		100% qu,ot

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Stanley Massett
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Technical Manager
Tanner Rasmussen

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Julio Robles

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Attn:

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Turnaround Time:
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		LH-F7.1B-2	*white grouting*	*y*	***None Detected***		100% qu,ca
LH-F7.1C		*LH-F7.1C-1*	*tan ceramic tile*	*y*	***None Detected***		100% qu,ot
		LH-F7.1C-2	*white grouting*	*y*	***None Detected***		100% qu,ca
LH-M6.1A		*LH-M6.1A-1*	*brown corking*	*y*	***None Detected***		100% ot
		LH-M6.1A-2	*brown mastic*	*y*	***None Detected***		100% qu,bi
		LH-M6.1A-3	*tan leveling compound*	*y*	***None Detected***		100% qu,pe,ca
LH-M6.1B		*LH-M6.1B-1*	*brown mastic*	*y*	***None Detected***		100% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
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Approved Signatories:

Stanley Massett
Analyst

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Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		LH-M6.1B-2	*tan leveling compound*	*y*	***None Detected***		100% qu,pe,ca
LH-M6.1C		*LH-M6.1C-1*	*brown mastic with debris*	*n*	***None Detected***		100% qu,ma,bi
LH-M8.1A		*LH-M8.1A-1*	*tan mastic*	*y*	***None Detected***		100% qu,bi
LH-M8.1B		*LH-M8.1B-1*	*tan mastic*	*y*	***None Detected***		100% qu,bi
LH-M8.1C		*LH-M8.1C-1*	*tan mastic*	*y*	***None Detected***		100% qu,bi
LH-M9.1A		*LH-M9.1A-1*	*white insulation*	*y*	***None Detected***	8% ce	92% qu,ma,ca
LH-M9.1B		*LH-M9.1B-1*	*white insulation*	*y*	***None Detected***	8% ce	92% qu,ma,ca

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AIHA LAP, LLC Laboratory #102929

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LH-M9.1C		*LH-M9.1C-1*	*white insulation*	*y*	***None Detected***		100% qu,pe,ca
LH-M9.2A		*LH-M9.2A-1*	*white insulation*	*y*	***None Detected***	4% fg	96% qu,pe,ca
LH-M9.2B		*LH-M9.2B-1*	*white insulation*	*y*	***None Detected***	4% fg	96% qu,pe,ca
LH-M9.2C		*LH-M9.2C-1*	*white insulation*	*y*	***None Detected***	4% fg	96% qu,pe,ca
LH-M11.1A		*LH-M11.1A-1*	*black covering*	*y*	***None Detected***	35% ce	65% qu,ma,bi
LH-M11.1B		*LH-M11.1B-1*	*black covering*	*n*	***None Detected***	35% ce	65% qu,ma,bi
LH-M11.1C		*LH-M11.1C-1*	*black covering*	*n*	***None Detected***	35% ce	65% qu,ma,bi

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LH-M11.2A		*LH-M11.2A-1*	*black wire covering*	*n*	***None Detected***	4% fg 8% ce	88% qu,ma,bi
LH-M11.2B		*LH-M11.2B-1*	*black wire covering*	*n*	***None Detected***	4% fg 8% ce	88% qu,ma,bi
LH-1M1.2C		*LH-1M1.2C-1*	*black wire covering*	*n*	***None Detected***	4% fg 8% ce	88% qu,ma,bi
LH-M18.1A		*LH-M18.1A-1*	*white surfaced white plaster*	*n*	***None Detected***		100% qu,pe,bi,ca
		LH-M18.1A-2	*gray plaster*	*y*	***None Detected***		100% qu,ca
		LH-M18.1A-3	*gray concrete*	*y*	***None Detected***		100% qu,ca
LH-M18.1B		*LH-M18.1B-1*	*white surfaced white plaster*	*n*	***None Detected***		100% qu,pe,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Stanley Massett
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

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9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:**
Tetra Tech
618 South 25th St
Billings, MT 59101

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-8292002.200, Livingston Hospital
Turnaround Time:
2 days

CA Labs Project #:
CAL18085753AG

Date: 8/28/2018
Samples Received: 8/24/18 10:30AM
Date Of Sampling: 7/31/2018
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		LH-M18.1B-2	*gray plaster*	*y*	***None Detected***		100% qu,ca
		LH-M18.1B-3	*gray concrete*	*y*	***None Detected***		100% qu,ca
LH-M18.1C		*LH-M18.1C-1*	*white surfaced white plaster*	*n*	***None Detected***		100% qu,pe,bi,ca
		LH-M18.1C-2	*gray plaster*	*y*	***None Detected***		100% qu,ca
		LH-M18.1C-3	*gray concrete*	*y*	***None Detected***		100% qu,ca
LH-M20.1A		*LH-M20.1A-1*	*black felt*	*y*	***None Detected***	35% ce	65% qu,ma,bi
LH-M20.1B		*LH-M20.1B-1*	*black felt*	*y*	***None Detected***	35% ce	65% qu,ma,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
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Approved Signatories:

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CA Labs Project #:
CAL18085753AG

Date: 8/28/2018
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Date Of Sampling: 7/31/2018
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
LH-M20.1C		*LH-M20.1C-1*	*black felt*	*y*	***None Detected***	35% ce	65% qu,ma,bi
LH-M30.1A		*LH-M30.1A-1*	*brown covering with black mastic*	*n*	***None Detected***	40% ce	60% qu,bi
		LH-M30.1A-2	*yellow fibrous insulation*	*y*	***None Detected***	100% fg	
LH-M30.1B		*LH-M30.1B-1*	*brown covering with black mastic*	*n*	***None Detected***	40% ce	60% qu,bi
		LH-M30.1B-2	*tan fibrous insulation*	*y*	***None Detected***	100% fg	
LH-M30.1C		*LH-M30.1C-1*	*brown covering with black mastic*	*n*	***None Detected***	40% ce	60% qu,bi
		LH-M30.1C-2	*tan fibrous insulation*	*y*	***None Detected***	100% fg	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
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Technical Manager
Tanner Rasmussen

Senior Analyst
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CA Labs Project #:
CAL18085753AG

Date: 8/28/2018
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Date Of Sampling: 7/31/2018
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
LH-M30.2A		*LH-M30.2A-1*	*silver covering with black mastic*	*n*	***None Detected***	25% ce	75% qu,ma,bi,ot
		LH-M30.2A-2	*tan fibrous insulation*	*y*	***None Detected***	100% fg	
LH-M30.2B		*LH-M30.2B-1*	*silver covering with black mastic*	*n*	***None Detected***	25% ce	75% qu,ma,bi,ot
		LH-M30.2B-2	*tan fibrous insulation*	*y*	***None Detected***	100% fg	
LH-M30.2C		*LH-M30.2C-1*	*silver covering with black mastic*	*n*	***None Detected***	25% ce	75% qu,ma,bi,ot
		LH-M30.2C-2	*tan fibrous insulation*	*y*	***None Detected***	100% fg	
LH-M30.3A		*LH-M30.3A-1*	*brown covering with black mastic and foil*	*n*	***None Detected***	8% fg 12% ce	80% qu,ma,bi,ot

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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Technical Manager
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Turnaround Time:
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CA Labs Project #:
CAL18085753AG

Date: 8/28/2018
Samples Received: 8/24/18 10:30AM
Date Of Sampling: 7/31/2018
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		LH-M30.3A-2	*yellow fibrous insulation*	*y*	***None Detected***	100% fg	
LH-M30.3B		*LH-M30.3B-1*	*brown covering with black mastic and foil*	*n*	***None Detected***	8% fg 12% ce	80% qu,ma,bi,ot
		LH-M30.3B-2	*yellow fibrous insulation*	*y*	***None Detected***	100% fg	
LH-M30.3C		*LH-M30.3C-1*	*brown covering with black mastic and foil*	*n*	***None Detected***	8% fg 12% ce	80% qu,ma,bi,ot
		LH-M30.3C-2	*yellow fibrous insulation*	*y*	***None Detected***	100% fg	
LH-M31.1A		*LH-M31.1A-1*	*white surfacing*	*y*	***None Detected***		100% qu,bi
		LH-M31.1A-2	*tan ceiling tile*	*y*	***None Detected***	10% fg 40% ce	50% qu,pe,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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Technical Manager
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Senior Analyst
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Turnaround Time:
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Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		LH-M31.1A-3	*gray woven covering*	*y*	***None Detected***	65% sy	35% qu,ma
LH-M31.1B		*LH-M31.1B-1*	*white surfacing*	*y*	***None Detected***		100% qu,bi
		LH-M31.1B-2	*tan ceiling tile*	*y*	***None Detected***	10% fg 40% ce	50% qu,pe,ma
		LH-M31.1B-3	*gray woven covering*	*y*	***None Detected***	65% sy	35% qu,ma
LH-M31.1C		*LH-M31.1C-1*	*white surfacing*	*y*	***None Detected***		100% qu,bi
		LH-M31.1C-2	*tan ceiling tile*	*y*	***None Detected***	10% fg 40% ce	50% qu,pe,ma
		LH-M31.1C-3	*gray woven covering*	*y*	***None Detected***	65% sy	35% qu,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
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LH-M32.1A		*LH-M32.1A-1*	*tan mastic*	*y*	***None Detected***		100% qu,bi
LH-M32.1B		*LH-M32.1B-1*	*tan mastic*	*y*	***None Detected***		100% qu,bi
LH-M32.1C		*LH-M32.1C-1*	*tan mastic*	*y*	***None Detected***		100% qu,bi
LH-T9.1A		*LH-T9.1A-1*	*tan covering*	*n*	***None Detected***	40% ce	60% qu,ma,bi
LH-T9.1B		*LH-T9.1B-1*	*tan covering*	*n*	***None Detected***	40% ce	60% qu,ma,bi
LH-T9.1C		*LH-T9.1C-1*	*tan covering*	*n*	***None Detected***	40% ce	60% qu,ma,bi
LH-T20.1A		*LH-T20.1A-1*	*gray insulation*	*y*	***None Detected***	2% fg 2% ce	96% qu,ma,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
LH-T20.1B		*LH-T20.1B-1*	*gray insulation*	*y*	***None Detected***	2% fg 2% ce	96% qu,ma,ca
LH-T20.1C		*LH-T20.1C-1*	*gray insulation*	*y*	***None Detected***	2% fg 2% ce	96% qu,ma,ca

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TETRA TECH
618 South 25th Street
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAL18085753

ASBESTOS PLM CHAIN OF CUSTODY

CONTACT INFORMATION

Company:	Tetra Tech, Inc.	**Phone:**	406.248.9161
Primary Contact:	Cody Knowlton	**Phone / Email:**	Cell – 406.208.3540 Cody.Knowlton@tetratech.com
Additional Contact:	Roger W. Herman, Jr.	**Phone / Email:**	direct – 406.384.0297 cell – 406.670.4844 roger.herman@tetratech.com
Sampler Name(s) (print):	Cody Knowlton	**Sampler Signature(s):**	

PROJECT INFORMATION

Client:	Homeward	**Project Name:**	Livingston Hospital
Project Location:	Livingston MT	**Project Number:**	117-8292002.200

PLM INSTRUCTIONS

☒ **PLM EPA 600/R-93/116**

☒ **PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 1%)**

☒ **Multi-Layered Samples:**

☒ Analyze and Report All Separable Layers per EPA 600 ☐ Report Composite for Drywall System per NESHAP (where applicable) ☒ Only Analyze specifically noted layer

☒ **Analyze Until Positive Stop:** Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ **10 Day** ☒ **5 Day** ☐ **3 Day** ☒ **2 Day** ☐ **1 Day** ☐ **Same Day** ☐ **RUSH**, Results by: 8/27/18

Relinquished By	Date & Time	VIA	Received By	Date & Time
Cody Knowlton	7-31-18	FEDEX	8/2/18 10:30AM	

TETRA TECH
618 South 25th Street
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAL18085753

ASBESTOS PLM CHAIN OF CUSTODY

HOMOGENEOUS ID	LAB ID	SAMPLE DESCRIPTION AND LOCATION	NOTES
LH-F1.1A		White mosaic pattern VSF and associated yellow mastic	
LH-F1.1B		White mosaic pattern VSF and associated yellow mastic	
LH-F1.1C		White mosaic pattern VSF and associated yellow mastic	
LH-F2.1A		Tan with black dot 12-inch by 12-inch VFT, yellow mastic, and associated white leveling compound	
LH-F2.1B		Tan with black dot 12-inch by 12-inch VFT, yellow mastic, and associated white leveling compound	
LH-F2.1C		Tan with black dot 12-inch by 12-inch VFT, yellow mastic, and associated white leveling compound	
LH-F5.1A		Yellow stair tread mastic associated with rubber stair tread	
LH-F5.1B		Yellow stair tread mastic associated with rubber stair tread	
LH-F5.1C		Yellow stair tread mastic associated with rubber stair tread	
LH-F7.1A		2-inch by 2-inc tan with black specks ceramic floor tile and associated grout	
LH-F7.1B		2-inch by 2-inc tan with black specks ceramic floor tile and associated grout	

8/24/18 1:30pm

TETRA TECH
618 South 25th Street
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAL18085753

ASBESTOS PLM CHAIN OF CUSTODY

HOMOGENEOUS ID	LAB ID	SAMPLE DESCRIPTION AND LOCATION	NOTES
LH-F7.1C		2-inch by 2-inc tan with black specks ceramic floor tile and associated grout	
LH-M6.1A		Brown mastic associated with cork board	
LH-M6.1B		Brown mastic associated with cork board	
LH-M6.1C		Brown mastic associated with cork board	
LH-M8.1A		Tan mastic associated with wooden wainscoting	
LH-M8.1B		Tan mastic associated with wooden wainscoting	
LH-M8.1C		Tan mastic associated with wooden wainscoting	
LH-M9.1A		Warnock Hersey Insulated Wood Fire Doors	
LH-M9.1B		Warnock Hersey Insulated Wood Fire Doors	
LH-M9.1C		Warnock Hersey Insulated Wood Fire Doors	
LH-M9.2A		Mohawk Insulated Wood Fire Doors	

8/24/18 1:30pm

TETRA TECH
618 South 25th Street
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAL18085753

ASBESTOS PLM CHAIN OF CUSTODY

HOMOGENEOUS ID	LAB ID	SAMPLE DESCRIPTION AND LOCATION	NOTES
LH-M9.2B		Mohawk Insulated Wood Fire Doors	
LH-M9.2A		Mohawk Insulated Wood Fire Doors	
LH-M11.1A		Black wire insulation primary power	
LH-M11.1B		Black wire insulation primary power	
LH-M11.1C		Black wire insulation primary power	
LH-M11.2A		White and black wire insulation secondary power	
LH-M11.2B		White and black wire insulation secondary power	
LH-M11.2C		White and black wire insulation secondary power	
LH-M18.1A		Concrete walls and ceilings, scratch coat, and plaster	
LH-M18.1B		Concrete walls and ceilings, scratch coat, and plaster	
LH-M18.1C		Concrete walls and ceilings, scratch coat, and plaster	

8/24/18

TETRA TECH
618 South 25th Street
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAL18085753

ASBESTOS PLM CHAIN OF CUSTODY

HOMOGENEOUS ID	LAB ID	SAMPLE DESCRIPTION AND LOCATION	NOTES
LH-M20.1A		Black felt paper behind wall board, covered with plaster walls	
LH-M20.1B		Black felt paper behind wall board covered with plaster walls	
LH-M20.1C		Black felt paper behind wall board covered with plaster walls0	
LH-M30.1A		Black mastic associated with paper backed yellow fiberglass batt insulation	
LH-M30.1B		Black mastic associated with paper backed yellow fiberglass batt insulation	
LH-M30.1C		Black mastic associated with paper backed yellow fiberglass batt insulation	
LH-M30.2A		Black mastic associated with foil backed pink fiberglass batt insulation	
LH-M30.2B		Black mastic associated with foil backed pink fiberglass batt insulation	
LH-M30.2C		Black mastic associated with foil backed pink fiberglass batt insulation	
LH-M30.3A		Black mastic associated with paper backed orange fiberglass duct insulation	
LH-M30.3B		Black mastic associated with paper backed orange fiberglass duct insulation	

8/27/18 10:30AM

TETRA TECH
618 South 25th Street
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAL18085753

ASBESTOS PLM CHAIN OF CUSTODY

HOMOGENEOUS ID	LAB ID	SAMPLE DESCRIPTION AND LOCATION	NOTES
LH-M30.3C		Black mastic associated with paper backed orange fiberglass duct insulation	
LH-M31.1A		Mastic associated with fabric acoustic wall covering	
LH-M31.1B		Mastic associated with fabric acoustic wall covering	
LH-M31.1C		Mastic associated with fabric acoustic wall covering	
LH-M32.1A		Tan mastic associated with Styrofoam on brick	
LH-M32.1B		Tan mastic associated with Styrofoam on brick	
LH-M32.1C		Tan mastic associated with Styrofoam on brick	
LH-T9.1A		White woven duct tape	
LH-T9.1B		White woven duct tape	
LH-T9.1C		White woven duct tape	
LH-T20.1A		Mudded duct wrap on boiler exhaust insulation	

8/24/18 10:30AM

TETRA TECH
618 South 25th Street
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAL18085753

ASBESTOS PLM CHAIN OF CUSTODY

HOMOGENEOUS ID	LAB ID	SAMPLE DESCRIPTION AND LOCATION	NOTES
LH-T20.1B		Mudded duct wrap on boiler exhaust insulation	
LH-T20.1C		Mudded duct wrap on boiler exhaust insulation	

8/24/18
10:30am

CA Labs
Dedicated to Quality

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Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech
618 South 25th St
Billings, MT 59101

Customer Project: 117-8292002.200, Livingston Hospital
Reference #: CAL18085859AF Date: 8/31/2018

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be delectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-8292002.200, Livingston Hospital **CA Labs Project #:** CAL18085859AF

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
LH-M2.1A	*M2.1 A-1*	***Tar**/ silver surfaced black tar*	***3% Chrysotile***	***silver surfaced black tar***

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

CA Labs
Dedicated to Quality

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CA Labs, L.L.C.
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Baton Rouge, LA 70809
Phone 225-751-5632
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Polarized Light Asbestiform Materials Characterization

Customer Info: ***Tetra Tech***
618 South 25th St
Billings, MT 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-8292002.200, Livingston Hospital

Turnaround Time:
3 Days

CA Labs Project #:
CAL18085859AF

Date: 8/31/2018
Samples Received: 8/29/18 10:30am
Date Of Sampling: None Given
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
LH-M1.1A		*M1.1 A-1*	***Tar Roof**/ black tar*	*y*	***None Detected***	3% ce	97% gy,bi
LH-M1.1B		*M1.1 B-1*	***Tar Roof**/ black tar*	*y*	***None Detected***	3% ce	97% gy,bi
LH-M1.1C		*M1.1 C-1*	***Tar Roof**/ black tar*	*y*	***None Detected***	3% ce	97% gy,bi
LH-M1.2A		*M1.2 A-1*	***Insulation**/ brown insulation*	*y*	***None Detected***	40% ce	60% qu,pe,ma
LH-M1.2B		*M1.2 B-1*	***Insulation**/ brown insulation*	*y*	***None Detected***	40% ce	60% qu,pe,ma
LH-M1.2C		*M1.2 C-1*	***Insulation**/ brown insulation*	*y*	***None Detected***	40% ce	60% qu,pe,ma
LH-M1.3A		*M1.3 A-1*	***Drywall**/ white drywall with paper*	*n*	***None Detected***	10% ce	90% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Stanley Massett
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
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Polarized Light Asbestiform Materials Characterization

Customer Info: ***Tetra Tech***
618 South 25th St
Billings, MT 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-8292002.200, Livingston Hospital

Turnaround Time:
3 Days

CA Labs Project #:
CAL18085859AF

Date: 8/31/2018
Samples Received: 8/29/18 10:30am
Date Of Sampling: None Given
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		M1.3 A-2	*white foam*	*y*	***None Detected***		100% ot
LH-M1.3B		*M1.3 B-1*	***Drywall**/ white drywall with paper*	*n*	***None Detected***	10% ce	90% qu,gy
		M1.3 B-2	*white foam*	*y*	***None Detected***		100% ot
LH-M1.3C		*M1.3 C-1*	***Drywall**/ white drywall with paper*	*n*	***None Detected***	10% ce	90% qu,gy
		M1.3 C-2	*white foam*	*y*	***None Detected***		100% ot
LH-M2.1A		*M2.1 A-1*	***Tar**/ silver surfaced black tar*	*n*	***3% Chrysotile***		97% qu,bi
LH-M2.1B		*M2.1 B-1*	***Tar**/ silver surfaced black tar*		*Positive Stop*		

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Stanley Massett
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
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Phone 972-242-2754
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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:**
Tetra Tech
618 South 25th St
Billings, MT 59101

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-8292002.200, Livingston Hospital
Turnaround Time:
3 Days

CA Labs Project #:
CAL18085859AF

Date: 8/31/2018
Samples Received: 8/29/18 10:30am
Date Of Sampling: None Given
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
LH-M2.1C		*M2.1 C-1*	***Tar**/ silver surfaced black tar*		*Positive Stop*		
LH-M40.1A		*M40.1 A-1*	***Sealant**/ black sealant*	*y*	***None Detected***	2% ce	98% qu,bi
LH-M40.1B		*M40.1 B-1*	***Sealant**/ black sealant*	*y*	***None Detected***	2% ce	98% qu,bi
LH-M40.1C		*M40.1 C-1*	***Sealant**/ black sealant*	*y*	***None Detected***	2% ce	98% qu,bi
LH-M41.1A		*M41.1 A-1*	***EIFS**/ tan plaster*	*y*	***None Detected***		100% qu,ca
		M41.1 A-2	*gray plaster*	*y*	***None Detected***	10% fg	90% qu,ca
		M41.1 A-3	*white foam*	*y*	***None Detected***		100% ot

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Stanley Massett
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Dedicated to Quality

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12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:**
Tetra Tech
618 South 25th St
Billings, MT 59101

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-8292002.200, Livingston Hospital
Turnaround Time:
3 Days

CA Labs Project #:
CAL18085859AF

Date: 8/31/2018
Samples Received: 8/29/18 10:30am
Date Of Sampling: None Given
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
LH-M41.1B		*M41.1 B-1*	***EIFS**/ tan plaster*	*y*	***None Detected***		100% qu,ca
		M41.1 B-2	*gray plaster*	*y*	***None Detected***	10% fg	90% qu,ca
		M41.1 B-3	*white foam*	*y*	***None Detected***		100% ot
LH-M41.1C		*M41.1 C-1*	***EIFS**/ tan plaster*	*y*	***None Detected***		100% qu,ca
		M41.1 C-2	*gray plaster*	*y*	***None Detected***	10% fg	90% qu,ca
		M41.1 C-3	*white foam*	*y*	***None Detected***		100% ot

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Stanley Massett
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
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6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

TETRA TECH
618 South 25th Street
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

ASBESTOS PLM CHAIN OF CUSTODY

MAC1808 5859

CONTACT INFORMATION

Company:	Tetra Tech, Inc.	**Phone:**	406.248.9161 Cell – 406.208.3540
Primary Contact:	Cody Knowlton	**Phone / Email:**	Cody.Knowlton@tetratech.com direct – 406.384.0297 cell – 406.670.4844
Additional Contact:	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com
Sampler Name(s) (print):	Dan Lawrence	**Sampler Signature(s):**	

PROJECT INFORMATION

Client:	Homeward	**Project Name:**	Livingston Hospital
Project Location:	Livingston MT	**Project Number:**	117-8292002.200

PLM INSTRUCTIONS

☒ **PLM EPA 600/R-93/116**

☒ **PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 1%)**

☒ **Multi-Layered Samples:**

☒ Analyze and Report All Separable Layers per EPA 600 ☐ Report Composite for Drywall System per NESHAP (where applicable) ☒ Only Analyze specifically noted layer

☒ **Analyze Until Positive Stop:** Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ **10 Day** ☐ **5 Day** ☒ **3 Day** ☐ **2 Day** ☐ **1 Day** ☐ **Same Day** ☐ **RUSH**, Results by:

Relinquished By	Date & Time	VIA	Received By	Date & Time
Dan Lawrence	8-28-18	FEDEX	10:30AM 8-29-18	

1 - 3

TETRA TECH
618 South 25th Street
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

GAC 18058059

ASBESTOS PLM CHAIN OF CUSTODY

HOMOGENEOUS ID	LAB ID	SAMPLE DESCRIPTION AND LOCATION	NOTES
LH-M1.1A		Built-up tar roof associated with original building	
LH-M1.1B		Built-up tar roof associated with original building	
LH-M1.1C		Built-up tar roof associated with original building	
LH-M1.2A		Perlite insulation associated with membrane roofing on original building	
LH-M1.2B		Perlite insulation associated with membrane roofing on original building	
LH-M1.2C		Perlite insulation associated with membrane roofing on original building	
LH-M1.3A		Drywall associated with membrane roofing on NE Addition	
LH-M1.3B		Drywall associated with membrane roofing on NE Addition	
LH-M1.3C		Drywall associated with membrane roofing on NE Addition	
LH-M2.1A		Black/silver tar associated with original roof	
LH-M2.1B		Black/silver tar associated with original roof	

10:30AM
8-29-18

TETRA TECH
618 South 25th Street
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAC18085859

ASBESTOS PLM CHAIN OF CUSTODY

HOMOGENEOUS ID	LAB ID	SAMPLE DESCRIPTION AND LOCATION	NOTES
LH-M2.1C		Black/silver tar associated with original roof	
LH-M40.1A		Black foundation sealant	
LH-M40.1B		Black foundation sealant	
LH-M40.1C		Black foundation sealant	
LH-M41.1A		Tan EIFS associated with NE Addition Roof	
LH-M41.1B		Tan EIFS associated with NE Addition Roof	
LH-M41.1C		Tan EIFS associated with NE Addition Roof	

10:30AM
8-29-18

ATTACHMENT D

Performance Characteristics Sheet

Performance Characteristic Sheet

EFFECTIVE DATE: **September 24, 2004** **EDITION NO.: 1**

MANUFACTURER AND MODEL:

Make: *Niton LLC*
Tested Model: *XLp 300*
Source: ^{109}Cd
Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and XLp series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A.
XLp 300A, XLp 301A, XLp 302A and XLp 303A.
XLi 700A, XLi 701A, XLi 702A and XLi 703A.
XLp 700A, XLp 701A, XLp 702A, and XLp 703A.

Note: The XLi and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm^2 (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is <u>not</u> needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)						
	All Data			Median for laboratory-measured lead levels (mg/cm^2)		
Substrate	25th Percentile	Median	75th Percentile	Pb < 0.25	0.25 ≤ Pb<1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.*

ATTACHMENT E

XRF Readings

Reading No	Component	Substrate	Side	Condition	Color	Site	Inspector	Floor	Room	PbC	Units	Results
1			CALIBRATE			FLH	RH			0	mg / cm ^2	Negative
2			CALIBRATE			FLH	RH			1.1	mg / cm ^2	Positive
3			CALIBRATE			FLH	RH			1.5	mg / cm ^2	Positive
4			CALIBRATE			FLH	RH			3.9	mg / cm ^2	Positive
5	WALL	BRICK	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
6	WALL	BRICK	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
7	WALL	BRICK	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
9	WALL	BRICK	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
10	WALL	BRICK	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
14	WINDOW SILL	CONCRETE	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
15	WINDOW SILL	CONCRETE	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
16	WINDOW FRAME	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
17	WINDOW FRAME	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
19	WINDOW FRAME	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
20	WINDOW FRAME	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
21	AIR VENT	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0.15	mg / cm ^2	Negative
22	AIR VENT	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0.16	mg / cm ^2	Negative
23	AIR VENT	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0.16	mg / cm ^2	Negative
24	AIR VENT	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
25	WALL	BRICK	A	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
26	WALL	BRICK	A	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
28	WALL	BRICK	A	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
29	WALL	BRICK	A	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
30	DOWNSPOUT	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0.02	mg / cm ^2	Negative
31	DOWNSPOUT	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
32	GUTTER	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
33	GUTTER	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
34	OUTLET	METAL	A	GOOD	GREY	FLH	RH	FIRST	OUTSIDE	0.06	mg / cm ^2	Negative
35	OUTLET	METAL	A	GOOD	GREY	FLH	RH	FIRST	OUTSIDE	0.02	mg / cm ^2	Negative
36	OUTLET	METAL	A	GOOD	GREY	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
37	OUTLET	METAL	A	GOOD	GREY	FLH	RH	FIRST	OUTSIDE	0.01	mg / cm ^2	Negative
38	OUTLET	METAL	A	GOOD	GREY	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
39	RAILING	METAL	A	GOOD	TAN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative

40	RAILING	METAL	A	GOOD	TAN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
41	RAILING	METAL	A	GOOD	TAN	FLH	RH	FIRST	OUTSIDE	0.01	mg / cm ^2	Negative
42	RAILING	METAL	A	GOOD	TAN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
43	DOOR	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
44	DOOR	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
45	DOOR	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
46	DOOR JAMB	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
47	DOOR JAMB	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
49	GARAGE DOOR	METAL	A	GOOD	WHITE	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
50	GARAGE DOOR JAMB	WOOD	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
51	GARAGE DOOR JAMB	WOOD	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
52	GARAGE DOOR JAMB	WOOD	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
53	GARAGE DOOR JAMB	WOOD	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
54	DOOR	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
55	DOOR	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
56	DOOR JAMB	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
57	DOOR JAMB	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
58	BALAST	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0.01	mg / cm ^2	Negative
59	BALAST	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0.03	mg / cm ^2	Negative
60	RAILING	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0.25	mg / cm ^2	Negative
61	RAILING	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0.01	mg / cm ^2	Negative
62	RAILING	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0.16	mg / cm ^2	Negative
63	DOCK DOOR	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
64	DOCK DOOR	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
66	DOCK DOOR	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
67	DOCK DOOR JAMB	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0.01	mg / cm ^2	Negative
68	DOCK DOOR JAMB	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0.01	mg / cm ^2	Negative
69	DOCK DOOR JAMB	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0.01	mg / cm ^2	Negative
70	WALL	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
71	WALL	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
72	WALL	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
73	DOOR	WOOD	A	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0.02	mg / cm ^2	Negative
74	DOOR	WOOD	A	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0.12	mg / cm ^2	Negative
75	DOOR	WOOD	A	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0.01	mg / cm ^2	Negative

76	DOOR	WOOD	A	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0.04	mg / cm ^2	Negative
77	DOOR KICK PLATE	METAL	A	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0.08	mg / cm ^2	Negative
78	DOOR KICK PLATE	METAL	A	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0.1	mg / cm ^2	Negative
79	DOOR HINGE	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
80	DOOR HINGE	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
81	DOOR WINDOW FRAME	PLASTIC	A	GOOD	WHITE	FLH	RH	FIRST	OUTSIDE	0.02	mg / cm ^2	Negative
82	DOOR WINDOW FRAME	PLASTIC	A	GOOD	WHITE	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
83	DOOR JAMB	WOOD	A	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0.02	mg / cm ^2	Negative
84	DOOR JAMB	WOOD	A	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0.08	mg / cm ^2	Negative
85	DOOR JAMB	WOOD	A	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0.25	mg / cm ^2	Negative
86	WINDOW FRAME	WOOD	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0.04	mg / cm ^2	Negative
87	WINDOW FRAME	WOOD	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0.12	mg / cm ^2	Negative
88	WINDOW FRAME	WOOD	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0.04	mg / cm ^2	Negative
89	WINDOW TRIM	WOOD	A	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0.02	mg / cm ^2	Negative
90	WINDOW TRIM	WOOD	A	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0.04	mg / cm ^2	Negative
91	WINDOW TRIM	WOOD	A	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0.03	mg / cm ^2	Negative
92	DOOR	WOOD	A	CRACKED	YELLOW	FLH	RH	FIRST	OUTSIDE	0.12	mg / cm ^2	Negative
93	DOOR	WOOD	A	CRACKED	YELLOW	FLH	RH	FIRST	OUTSIDE	0.04	mg / cm ^2	Negative
94	DOOR JAMB	WOOD	A	CRACKED	YELLOW	FLH	RH	FIRST	OUTSIDE	0.13	mg / cm ^2	Negative
95	DOOR JAMB	WOOD	A	CRACKED	YELLOW	FLH	RH	FIRST	OUTSIDE	0.19	mg / cm ^2	Negative
96	DOOR JAMB	WOOD	A	CRACKED	YELLOW	FLH	RH	FIRST	OUTSIDE	0.15	mg / cm ^2	Negative
97	DOOR VENT	METAL	A	CRACKED	GREY	FLH	RH	FIRST	OUTSIDE	0.06	mg / cm ^2	Negative
98	DOOR VENT	METAL	A	CRACKED	GREY	FLH	RH	FIRST	OUTSIDE	0.02	mg / cm ^2	Negative
99	VENT	METAL	A	GOOD	GREY	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
100	VENT	METAL	A	GOOD	GREY	FLH	RH	FIRST	OUTSIDE	0.02	mg / cm ^2	Negative
101	TRIM	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	1.2	mg / cm ^2	Positive
102	TRIM	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0.6	mg / cm ^2	Negative
104	TRIM	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	1.2	mg / cm ^2	Positive
105	TRIM	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	2.3	mg / cm ^2	Positive
107	SOFFIT	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	2.1	mg / cm ^2	Positive
108	SOFFIT	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	1.4	mg / cm ^2	Positive
109	SOFFIT	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	1.9	mg / cm ^2	Positive
110	SOFFIT	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	1.7	mg / cm ^2	Positive
112	FACSIA	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0.6	mg / cm ^2	Negative

114	FACSIA	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0.8	mg / cm ^2	Negative
116	FACSIA	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	2.2	mg / cm ^2	Positive
119	FACSIA	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	1.5	mg / cm ^2	Positive
121	FACSIA	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	3.4	mg / cm ^2	Positive
122	WINDOW FRAME	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
123	WINDOW FRAME	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
124	WINDOW FRAME	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
125	WINDOW FRAME	WOOD	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	9.2	mg / cm ^2	Positive
126	WINDOW FRAME HEADER	METAL	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	5.8	mg / cm ^2	Positive
127	WINDOW FRAME HEADER	METAL	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	10.1	mg / cm ^2	Positive
128	WINDOW FRAME HEADER	METAL	A	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	5.7	mg / cm ^2	Positive
129	WALL	BRICK	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
130	WALL	BRICK	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
131	WALL	BRICK	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
132	WALL	BRICK	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
133	WALL	BRICK	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
135	WALL	BRICK	B	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
136	WALL	BRICK	B	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
137	WALL	BRICK	B	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
138	DOOR	WOOD	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0.01	mg / cm ^2	Negative
139	DOOR	WOOD	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
140	DOOR JAMB	WOOD	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
141	DOOR JAMB	WOOD	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0.09	mg / cm ^2	Negative
142	DOOR WINDOW TRIM	WOOD	B	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
143	DOOR WINDOW TRIM	WOOD	B	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
145	VENT	METAL	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0.5	mg / cm ^2	Negative
146	VENT	METAL	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0.6	mg / cm ^2	Negative
147	WINDOW	METAL	B	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
149	WINDOW	METAL	B	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
150	WINDOW	METAL	B	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
151	WINDOW	METAL	B	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
152	WINDOW	METAL	B	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
153	WINDOW HEADER	METAL	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	6.2	mg / cm ^2	Positive
154	WINDOW HEADER	METAL	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	5.5	mg / cm ^2	Positive

155	WINDOW HEADER	METAL	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	5.9	mg / cm ^2	Positive
156	TRIM	WOOD	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	2.9	mg / cm ^2	Positive
157	TRIM	WOOD	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	2.3	mg / cm ^2	Positive
158	SOFFIT	WOOD	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	2.1	mg / cm ^2	Positive
159	SOFFIT	WOOD	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	2.9	mg / cm ^2	Positive
160	FACSIA	WOOD	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	2.5	mg / cm ^2	Positive
161	FACSIA	WOOD	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	2.3	mg / cm ^2	Positive
163	FACSIA	WOOD	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	2.4	mg / cm ^2	Positive
164	FACSIA	WOOD	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	2	mg / cm ^2	Positive
165	SOFFIT	WOOD	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	3.5	mg / cm ^2	Positive
166	SOFFIT	WOOD	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	4.3	mg / cm ^2	Positive
167	TRIM	WOOD	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	1.5	mg / cm ^2	Positive
168	TRIM	WOOD	B	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	1.9	mg / cm ^2	Positive
169	WINDOW PANEL	WOOD	B	CRACKED	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
170	WINDOW PANEL	WOOD	B	CRACKED	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
171	WINDOW PANEL	WOOD	B	CRACKED	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
172	ROOF DRAIN	METAL	B	FAIR	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
173	ROOF DRAIN	METAL	B	FAIR	BROWN	FLH	RH	FIRST	OUTSIDE	0.02	mg / cm ^2	Negative
174	ROOF DRAIN	METAL	B	FAIR	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
175	OUTLET	METAL	B	FAIR	GREY	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
176	OUTLET	METAL	B	FAIR	GREY	FLH	RH	FIRST	OUTSIDE	0.03	mg / cm ^2	Negative
177	CONDUIT	METAL	B	FAIR	GREY	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
178	CONDUIT	METAL	B	FAIR	GREY	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
179			CALIBRATE			FLH	RH			0.01	mg / cm ^2	Negative
182			CALIBRATE			FLH	RH			0.9	mg / cm ^2	Negative
183			CALIBRATE			FLH	RH			1.5	mg / cm ^2	Positive
184			CALIBRATE			FLH	RH			2.4	mg / cm ^2	Positive
185			CALIBRATE			FLH	RH			3.3	mg / cm ^2	Positive
186			CALIBRATE			FLH	RH			3	mg / cm ^2	Positive
195	DOOR	WOOD	C	CRACKED	YELLOW	FLH	RH	FIRST	OUTSIDE	0.09	mg / cm ^2	Negative
196	DOOR	WOOD	C	CRACKED	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
197	DOOR JAMB	WOOD	C	CRACKED	YELLOW	FLH	RH	FIRST	OUTSIDE	0.05	mg / cm ^2	Negative
198	DOOR JAMB	WOOD	C	CRACKED	YELLOW	FLH	RH	FIRST	OUTSIDE	0.26	mg / cm ^2	Negative
199	DOOR KICKPLATE	METAL	C	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative

200	DOOR KICKPLATE	METAL	C	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	11.1	mg / cm ^2	Positive
201	DOOR TRANSITION	METAL	C	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	11.3	mg / cm ^2	Positive
203	WALL	BRICK	C	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
204	WALL	BRICK	C	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
207	WALL	BRICK	C	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
208	WALL	BRICK	C	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
209	WALL	BRICK	C	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
210	WALL	BRICK	C	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
214	WINDOW	METAL	C	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
215	WINDOW	METAL	C	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
216	WINDOW	METAL	C	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
217	WINDOW	METAL	C	GOOD	SILVER	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
218	WINDOW	METAL	C	GOOD	SILVER	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
219	WINDOW	METAL	C	GOOD	SILVER	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
220	VENT	METAL	C	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0.3	mg / cm ^2	Negative
222	VENT	METAL	C	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0.3	mg / cm ^2	Negative
223	DOOR	WOOD	C	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
224	DOOR	WOOD	C	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
225	DOOR JAMB	WOOD	C	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0.05	mg / cm ^2	Negative
226	DOOR JAMB	WOOD	C	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0.05	mg / cm ^2	Negative
227	DOOR TRANSITION	METAL	C	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	12	mg / cm ^2	Positive
228	DOOR TRANSITION	METAL	C	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	10.2	mg / cm ^2	Positive
229	DOOR TRANSITION	METAL	C	GOOD	SILVER	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
230	DOOR JAMB	METAL	C	GOOD	WHITE	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
231	DOOR JAMB	METAL	C	GOOD	WHITE	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
232	DOOR	METAL	C	GOOD	WHITE	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
233	DOOR	METAL	C	GOOD	WHITE	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
234	WALL	BRICK	D	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
235	WALL	BRICK	D	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
236	WALL	BRICK	D	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
237	WALL	BRICK	D	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
238	WINDOW	METAL	D	GOOD	SILVER	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
239	WINDOW	METAL	D	GOOD	SILVER	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
240	VENT	METAL	D	FAIR	YELLOW	FLH	RH	FIRST	OUTSIDE	0.26	mg / cm ^2	Negative

241	VENT	METAL	D	FAIR	YELLOW	FLH	RH	FIRST	OUTSIDE	0.23	mg / cm ^2	Negative
242	DOOR	METAL	D	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
243	DOOR	METAL	D	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
244	DOOR JAMB	METAL	D	GOOD	GREY	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
245	DOOR JAMB	METAL	D	GOOD	GREY	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
246	RAILING	METAL	D	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0.01	mg / cm ^2	Negative
247	RAILING	METAL	D	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0.01	mg / cm ^2	Negative
248	DOOR	METAL	D	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0.25	mg / cm ^2	Negative
249	DOOR	METAL	D	GOOD	RED	FLH	RH	FIRST	OUTSIDE	0.19	mg / cm ^2	Negative
250	DOOR JAMB	METAL	D	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0.22	mg / cm ^2	Negative
252	DOOR JAMB	METAL	D	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0.4	mg / cm ^2	Negative
253	DOOR JAMB	METAL	D	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0.8	mg / cm ^2	Negative
254	WINDOW PANELING	WOOD	D	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
255	WINDOW PANELING	WOOD	D	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
256	HVAC	METAL	D	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
257	HVAC	METAL	D	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
258	HVAC	METAL	D	GOOD	YELLOW	FLH	RH	FIRST	OUTSIDE	0	mg / cm ^2	Negative
259	DOOR TRANSITION	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	11.5	mg / cm ^2	Positive
260	DOOR TRANSITION	METAL	A	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	12.2	mg / cm ^2	Positive
261	DOOR TRANSITION	METAL	B	GOOD	BROWN	FLH	RH	FIRST	OUTSIDE	9.5	mg / cm ^2	Positive
262			CALIBRATE			FLH	RH			0	mg / cm ^2	Negative
264			CALIBRATE			FLH	RH			1.1	mg / cm ^2	Positive
265			CALIBRATE			FLH	RH			1.5	mg / cm ^2	Positive
266			CALIBRATE			FLH	RH			4.5	mg / cm ^2	Positive
267			CALIBRATE			FLH	RH			3.9	mg / cm ^2	Positive
268	WALL	PLASTER	A	POOR	YELLOW	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
269	WALL	PLASTER	A	POOR	YELLOW	FLH	RH	FIRST	154	0.26	mg / cm ^2	Negative
270	WALL	PLASTER	A	POOR	YELLOW	FLH	RH	FIRST	154	0.7	mg / cm ^2	Negative
271	WALL	PLASTER	B	POOR	YELLOW	FLH	RH	FIRST	154	0.6	mg / cm ^2	Negative
272	WALL	PLASTER	B	POOR	YELLOW	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
273	WALL	PLASTER	B	POOR	YELLOW	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
274	WALL	PLASTER	C	POOR	YELLOW	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
276	WALL	PLASTER	C	POOR	YELLOW	FLH	RH	FIRST	154	0.7	mg / cm ^2	Negative
277	WALL	PLASTER	D	POOR	YELLOW	FLH	RH	FIRST	154	0	mg / cm ^2	Negative

278	WALL	PLASTER	D	POOR	YELLOW	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
279	WALL	PLASTER	D	POOR	YELLOW	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
280	WALL	PLASTER	D	POOR	YELLOW	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
281	WALL	PLASTER	D	POOR	YELLOW	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
282	WALL	PLASTER	D	POOR	YELLOW	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
283	DOOR	PLASTER	A	FAIR	STAIN	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
284	DOOR	PLASTER	A	FAIR	STAIN	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
285	DOOR	PLASTER	A	FAIR	STAIN	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
286	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	154	0.01	mg / cm ^2	Negative
287	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	154	0.01	mg / cm ^2	Negative
288	DOOR STOP	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
289	DOOR STOP	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	154	0.02	mg / cm ^2	Negative
291	CEILING	WOOD	UPPER	FAIR	WHITE	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
292	CEILING	WOOD	UPPER	FAIR	WHITE	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
293	CEILING	WOOD	UPPER	FAIR	WHITE	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
294	WINDOW FRAME	WOOD	C	FAIR	BROWN	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
295	WINDOW FRAME	WOOD	C	FAIR	BROWN	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
296	WINDOW TRIM	WOOD	C	FAIR	BROWN	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
297	WINDOW TRIM	WOOD	C	FAIR	BROWN	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
298	WINDOW HANDLE	METAL	C	FAIR	BEIGE	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
299	WINDOW HANDLE	METAL	C	FAIR	BEIGE	FLH	RH	FIRST	154	0	mg / cm ^2	Negative
300	WALL	PLASTER	A	FAIR	WHITE	FLH	RH	FIRST	153	0.23	mg / cm ^2	Negative
301	WALL	PLASTER	A	FAIR	WHITE	FLH	RH	FIRST	153	0	mg / cm ^2	Negative
302	DOOR JAMB	WOOD	A	FAIR	WHITE	FLH	RH	FIRST	153	0.13	mg / cm ^2	Negative
303	DOOR JAMB	WOOD	A	FAIR	WHITE	FLH	RH	FIRST	153	0.06	mg / cm ^2	Negative
304	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	153	0	mg / cm ^2	Negative
305	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	153	0.01	mg / cm ^2	Negative
306	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	153	0	mg / cm ^2	Negative
307	DOOR STOP	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	153	0	mg / cm ^2	Negative
308	DOOR STOP	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	153	0.04	mg / cm ^2	Negative
309	DOOR TRIM	WOOD	A	FAIR	WHITE	FLH	RH	FIRST	153	0.28	mg / cm ^2	Negative
310	DOOR TRIM	WOOD	A	FAIR	WHITE	FLH	RH	FIRST	153	0.14	mg / cm ^2	Negative
311	DOOR	WOOD	A	FAIR	WHITE	FLH	RH	FIRST	153	0.02	mg / cm ^2	Negative
312	DOOR	WOOD	A	FAIR	WHITE	FLH	RH	FIRST	153	0.01	mg / cm ^2	Negative

313	WALL	PLASTER	B	FAIR	WHITE	FLH	RH	FIRST	153	0.04	mg / cm ^2	Negative
314	WALL	PLASTER	B	FAIR	WHITE	FLH	RH	FIRST	153	0	mg / cm ^2	Negative
315	WALL	PLASTER	C	FAIR	WHITE	FLH	RH	FIRST	153	0.13	mg / cm ^2	Negative
317	WALL	PLASTER	C	FAIR	WHITE	FLH	RH	FIRST	153	-0.05	mg / cm ^2	Negative
318	WALL	PLASTER	C	FAIR	WHITE	FLH	RH	FIRST	153	0.3	mg / cm ^2	Negative
319	WALL	PLASTER	D	FAIR	WHITE	FLH	RH	FIRST	153	0.01	mg / cm ^2	Negative
320	WALL	PLASTER	D	FAIR	WHITE	FLH	RH	FIRST	153	0.22	mg / cm ^2	Negative
321	CEILING	PLASTER	UPPER	FAIR	GREEN	FLH	RH	FIRST	153	0	mg / cm ^2	Negative
322	CEILING	PLASTER	UPPER	FAIR	GREEN	FLH	RH	FIRST	153	0.15	mg / cm ^2	Negative
323	RADIATOR	METAL	D	FAIR	WHITE	FLH	RH	FIRST	153	0.3	mg / cm ^2	Negative
324	RADIATOR	METAL	D	FAIR	WHITE	FLH	RH	FIRST	153	0.16	mg / cm ^2	Negative
325	TRIM	WOOD	B	FAIR	GREY	FLH	RH	FIRST	153	0.09	mg / cm ^2	Negative
328	TRIM	WOOD	B	FAIR	GREY	FLH	RH	FIRST	153	0.15	mg / cm ^2	Negative
329	TRIM	WOOD	C	FAIR	GREY	FLH	RH	FIRST	153	0.05	mg / cm ^2	Negative
330	TRIM	WOOD	D	FAIR	GREY	FLH	RH	FIRST	153	0.07	mg / cm ^2	Negative
333	STAIRS	CONCRETE	UPPER	GOOD	GREY	FLH	RH	FIRST	153	0.09	mg / cm ^2	Negative
334	STAIRS	CONCRETE	UPPER	GOOD	GREY	FLH	RH	FIRST	153	0.02	mg / cm ^2	Negative
336	STAIR TREAD EDGEING	METAL	LOWER	GOOD	BROWN	FLH	RH	FIRST	153	12.2	mg / cm ^2	Positive
337	STAIR TREAD EDGEING	METAL	LOWER	GOOD	BROWN	FLH	RH	FIRST	153	12.1	mg / cm ^2	Positive
338	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	153	0.01	mg / cm ^2	Negative
339	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	153	0	mg / cm ^2	Negative
341	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	153	0.01	mg / cm ^2	Negative
342	DOOR WINDOW FRAME	METAL	C	GOOD	GREY	FLH	RH	FIRST	153	0	mg / cm ^2	Negative
343	DOOR WINDOW FRAME	METAL	C	GOOD	GREY	FLH	RH	FIRST	153	0	mg / cm ^2	Negative
344	DOOR WINDOW FRAME	METAL	C	GOOD	GREY	FLH	RH	FIRST	153	0	mg / cm ^2	Negative
345	WALL	PLASTER	A	FAIR	WHITE	FLH	RH	FIRST	152	0	mg / cm ^2	Negative
346	WALL	PLASTER	A	FAIR	WHITE	FLH	RH	FIRST	152	0.07	mg / cm ^2	Negative
349	WALL	PLASTER	B	FAIR	WHITE	FLH	RH	FIRST	152	0.07	mg / cm ^2	Negative
350	WALL	PLASTER	B	FAIR	WHITE	FLH	RH	FIRST	152	0.03	mg / cm ^2	Negative
351	WALL	PLASTER	B	FAIR	WHITE	FLH	RH	FIRST	152	0.04	mg / cm ^2	Negative
352	WALL	PLASTER	C	FAIR	WHITE	FLH	RH	FIRST	152	0.06	mg / cm ^2	Negative
353	WALL	PLASTER	C	FAIR	WHITE	FLH	RH	FIRST	152	0.05	mg / cm ^2	Negative
354	WALL	PLASTER	D	FAIR	WHITE	FLH	RH	FIRST	152	0.01	mg / cm ^2	Negative
355	WALL	PLASTER	D	FAIR	WHITE	FLH	RH	FIRST	152	0.04	mg / cm ^2	Negative

356	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	152	0	mg / cm ^2	Negative
357	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	152	0	mg / cm ^2	Negative
358	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	152	0	mg / cm ^2	Negative
359	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	152	0	mg / cm ^2	Negative
360	DOOR JAMB	METAL	C	FAIR	BEIGE	FLH	RH	FIRST	152	0	mg / cm ^2	Negative
361	DOOR JAMB	METAL	C	FAIR	BEIGE	FLH	RH	FIRST	152	0	mg / cm ^2	Negative
362	DOOR JAMB	METAL	C	FAIR	BEIGE	FLH	RH	FIRST	152	0	mg / cm ^2	Negative
363	TOILET	CERAMIC	D	GOOD	WHITE	FLH	RH	FIRST	152	0.01	mg / cm ^2	Negative
364	TOILET	CERAMIC	D	GOOD	WHITE	FLH	RH	FIRST	152	0.01	mg / cm ^2	Negative
367	TOILET	CERAMIC	D	GOOD	WHITE	FLH	RH	FIRST	152	0.29	mg / cm ^2	Negative
368	WINDOW FRAME	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	152	0	mg / cm ^2	Negative
369	WINDOW FRAME	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	152	0	mg / cm ^2	Negative
370	WINDOW SILL	WOOD	A	FAIR	WHITE	FLH	RH	FIRST	152	0	mg / cm ^2	Negative
371	WINDOW SILL	WOOD	A	FAIR	WHITE	FLH	RH	FIRST	152	0	mg / cm ^2	Negative
372	WALL	PLASTER	A	POOR	YELLOW	FLH	RH	FIRST	155	0.05	mg / cm ^2	Negative
373	WALL	PLASTER	A	POOR	YELLOW	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
374	WALL	PLASTER	A	POOR	YELLOW	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
375	WALL	PLASTER	B	POOR	RED	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
376	WALL	PLASTER	B	POOR	RED	FLH	RH	FIRST	155	0.09	mg / cm ^2	Negative
377	WALL	PLASTER	B	POOR	RED	FLH	RH	FIRST	155	0.08	mg / cm ^2	Negative
378	WALL	PLASTER	B	POOR	RED	FLH	RH	FIRST	155	0.07	mg / cm ^2	Negative
379	WALL	PLASTER	C	FAIR	YELLOW	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
380	WALL	PLASTER	C	FAIR	YELLOW	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
381	WALL	PLASTER	C	FAIR	YELLOW	FLH	RH	FIRST	155	0.01	mg / cm ^2	Negative
382	WALL	PLASTER	D	FAIR	YELLOW	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
383	WALL	PLASTER	D	FAIR	YELLOW	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
384	WALL	PLASTER	D	FAIR	YELLOW	FLH	RH	FIRST	155	0.1	mg / cm ^2	Negative
385	WALL	PLASTER	A	FAIR	BLUE	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
386	WALL	PLASTER	A	FAIR	BLUE	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
387	WALL	PLASTER	B	FAIR	BLUE	FLH	RH	FIRST	155	0.16	mg / cm ^2	Negative
388	WALL	PLASTER	B	FAIR	BLUE	FLH	RH	FIRST	155	0.04	mg / cm ^2	Negative
389	WALL	PLASTER	C	FAIR	YELLOW	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
390	WALL	PLASTER	D	FAIR	BLUE	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
391	WALL	PLASTER	D	FAIR	BLUE	FLH	RH	FIRST	155	0.03	mg / cm ^2	Negative

392	DOOR JAMB	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
393	DOOR JAMB	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
394	DOOR JAMB	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
395	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
396	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	155	0.01	mg / cm ^2	Negative
397	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
398	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
399	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
400	WINDOW FRAME	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
401	WINDOW FRAME	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
402	WINDOW SILL	WOOD	C	FAIR	YELLOW	FLH	RH	FIRST	155	0	mg / cm ^2	Negative
403	WALL	PLASTER	A	FAIR	PURPLE	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
404	WALL	PLASTER	A	FAIR	PURPLE	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
405	WALL	PLASTER	A	FAIR	PURPLE	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
406	WALL	PLASTER	B	FAIR	PURPLE	FLH	RH	FIRST	150	0.03	mg / cm ^2	Negative
407	WALL	PLASTER	B	FAIR	PURPLE	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
408	WALL	PLASTER	B	FAIR	PURPLE	FLH	RH	FIRST	150	0.03	mg / cm ^2	Negative
409	WALL	PLASTER	C	POOR	PURPLE	FLH	RH	FIRST	150	0.01	mg / cm ^2	Negative
410	WALL	PLASTER	C	POOR	PURPLE	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
411	WALL	PLASTER	C	POOR	PURPLE	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
412	WALL	PLASTER	D	POOR	PURPLE	FLH	RH	FIRST	150	0.08	mg / cm ^2	Negative
413	WALL	PLASTER	D	POOR	PURPLE	FLH	RH	FIRST	150	0.01	mg / cm ^2	Negative
414	WALL	PLASTER	D	POOR	PURPLE	FLH	RH	FIRST	150	0.03	mg / cm ^2	Negative
415	CEILING	PLASTER	UPPER	POOR	PURPLE	FLH	RH	FIRST	150	0.02	mg / cm ^2	Negative
416	CEILING	PLASTER	UPPER	POOR	PURPLE	FLH	RH	FIRST	150	0.06	mg / cm ^2	Negative
417	WALL	PLASTER	A	POOR	YELLOW	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
418	WALL	PLASTER	A	POOR	YELLOW	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
419	WALL	PLASTER	B	POOR	YELLOW	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
420	WALL	PLASTER	B	POOR	YELLOW	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
421	WALL	PLASTER	C	POOR	YELLOW	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
422	TILE	CERAMIC	C	FAIR	WHITE	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
423	TILE	CERAMIC	C	FAIR	WHITE	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
424	TOILET	CERAMIC	B	FAIR	WHITE	FLH	RH	FIRST	150	0.01	mg / cm ^2	Negative
425	DOOR JAMB	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	150	0	mg / cm ^2	Negative

426	DOOR JAMB	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
427	DOOR JAMB	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
428	DOOR JAMB	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
429	DOOR JAMB	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
430	DOOR JAMB	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	150	0.01	mg / cm ^2	Negative
431	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
432	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
433	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
435	WINDOW FRAME	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
437	WINDOW SILL	WOOD	A	FAIR	WHITE	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
438	WINDOW SILL	WOOD	A	FAIR	WHITE	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
439	WALL	PLASTER	A	FAIR	YELLOW	FLH	RH	FIRST	151a	0	mg / cm ^2	Negative
440	WALL	PLASTER	A	FAIR	YELLOW	FLH	RH	FIRST	151a	0	mg / cm ^2	Negative
442	WALL	PLASTER	A	FAIR	WHITE	FLH	RH	FIRST	151a	0.03	mg / cm ^2	Negative
443	WALL	PLASTER	A	FAIR	WHITE	FLH	RH	FIRST	151a	0.03	mg / cm ^2	Negative
444	WALL	PLASTER	B	POOR	WHITE	FLH	RH	FIRST	151a	0.01	mg / cm ^2	Negative
445	WALL	PLASTER	B	POOR	WHITE	FLH	RH	FIRST	151a	0.08	mg / cm ^2	Negative
446	WALL	PLASTER	B	POOR	YELLOW	FLH	RH	FIRST	151a	0.5	mg / cm ^2	Negative
447	WALL	PLASTER	B	POOR	YELLOW	FLH	RH	FIRST	151a	0.4	mg / cm ^2	Negative
448	WALL	PLASTER	C	POOR	WHITE	FLH	RH	FIRST	151a	0.05	mg / cm ^2	Negative
449	WALL	PLASTER	C	POOR	WHITE	FLH	RH	FIRST	151a	0.08	mg / cm ^2	Negative
450	WALL	PLASTER	C	POOR	WHITE	FLH	RH	FIRST	151a	0	mg / cm ^2	Negative
451	WALL	PLASTER	C	POOR	WHITE	FLH	RH	FIRST	151a	0.08	mg / cm ^2	Negative
452	WALL	PLASTER	D	POOR	YELLOW	FLH	RH	FIRST	151a	0.25	mg / cm ^2	Negative
453	WALL	PLASTER	D	POOR	YELLOW	FLH	RH	FIRST	151a	0.03	mg / cm ^2	Negative
454	DOOR JAMB	PLASTER	B	FAIR	STAIN	FLH	RH	FIRST	151a	0.02	mg / cm ^2	Negative
455	DOOR JAMB	PLASTER	B	FAIR	STAIN	FLH	RH	FIRST	151a	0	mg / cm ^2	Negative
456	DOOR JAMB	PLASTER	B	FAIR	STAIN	FLH	RH	FIRST	151a	0.02	mg / cm ^2	Negative
457	DOOR JAMB	PLASTER	B	FAIR	STAIN	FLH	RH	FIRST	151a	0.02	mg / cm ^2	Negative
459	SINK	CERAMIC	B	FAIR	WHITE	FLH	RH	FIRST	151a	0.12	mg / cm ^2	Negative
460	WALL	PLASTER	A	POOR	BLUE	FLH	RH	FIRST	150	0.25	mg / cm ^2	Negative
461	WALL	PLASTER	A	POOR	BLUE	FLH	RH	FIRST	150	0.16	mg / cm ^2	Negative
462	WALL	PLASTER	A	POOR	BLUE	FLH	RH	FIRST	150	0.2	mg / cm ^2	Negative
463	WALL	PLASTER	A	POOR	BLUE	FLH	RH	FIRST	150	0.5	mg / cm ^2	Negative

464	WALL	PLASTER	A	POOR	BLUE	FLH	RH	FIRST	150	0.3	mg / cm ^2	Negative
465	WALL	PLASTER	B	POOR	BLUE	FLH	RH	FIRST	150	0.29	mg / cm ^2	Negative
467	WALL	PLASTER	B	POOR	BLUE	FLH	RH	FIRST	150	0.05	mg / cm ^2	Negative
468	WALL	PLASTER	C	POOR	BLUE	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
469	WALL	PLASTER	C	POOR	BLUE	FLH	RH	FIRST	150	0.05	mg / cm ^2	Negative
470	WALL	PLASTER	C	POOR	BLUE	FLH	RH	FIRST	150	0.29	mg / cm ^2	Negative
471	WALL	PLASTER	C	POOR	BLUE	FLH	RH	FIRST	150	0.3	mg / cm ^2	Negative
472	WALL	PLASTER	C	POOR	BLUE	FLH	RH	FIRST	150	0.4	mg / cm ^2	Negative
473	WALL	PLASTER	D	POOR	BLUE	FLH	RH	FIRST	150	0.04	mg / cm ^2	Negative
474	WALL	PLASTER	D	POOR	BLUE	FLH	RH	FIRST	150	0.14	mg / cm ^2	Negative
476	RADIATOR	METAL	A	GOOD	BLUE	FLH	RH	FIRST	150	0.4	mg / cm ^2	Negative
477	RADIATOR	METAL	A	GOOD	BLUE	FLH	RH	FIRST	150	0.14	mg / cm ^2	Negative
478	RADIATOR	METAL	A	GOOD	BLUE	FLH	RH	FIRST	150	0.3	mg / cm ^2	Negative
479	RADIATOR	METAL	A	GOOD	BLUE	FLH	RH	FIRST	150	0	mg / cm ^2	Negative
480	WALL	PLASTER	A	FAIR	YELLOW	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
481	WALL	PLASTER	A	FAIR	YELLOW	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
482	WALL	PLASTER	A	FAIR	YELLOW	FLH	RH	FIRST	149	0.02	mg / cm ^2	Negative
483	WALL	PLASTER	B	FAIR	YELLOW	FLH	RH	FIRST	149	0.11	mg / cm ^2	Negative
484	WALL	PLASTER	B	FAIR	YELLOW	FLH	RH	FIRST	149	0.03	mg / cm ^2	Negative
485	WALL	PLASTER	B	FAIR	YELLOW	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
486	WALL	PLASTER	C	FAIR	YELLOW	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
487	WALL	PLASTER	C	FAIR	YELLOW	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
488	WALL	PLASTER	C	FAIR	YELLOW	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
489	WALL	PLASTER	D	FAIR	YELLOW	FLH	RH	FIRST	149	0.06	mg / cm ^2	Negative
490	WALL	PLASTER	D	FAIR	YELLOW	FLH	RH	FIRST	149	0.07	mg / cm ^2	Negative
491	WALL	PLASTER	D	FAIR	YELLOW	FLH	RH	FIRST	149	0.06	mg / cm ^2	Negative
492	WINDOW FRAME	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
494	WINDOW FRAME	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
495	WINDOW SILL	WOOD	A	FAIR	YELLOW	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
496	WINDOW SILL	WOOD	A	FAIR	YELLOW	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
497	WALL	PLASTER	D	FAIR	YELLOW	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
498	WALL	PLASTER	D	FAIR	YELLOW	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
499	WALL	PLASTER	D	FAIR	YELLOW	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
500	LIGHT	METAL	UPPER	GOOD	WHITE	FLH	RH	FIRST	149	0	mg / cm ^2	Negative

501	LIGHT	METAL	UPPER	GOOD	WHITE	FLH	RH	FIRST	149	0.01	mg / cm ^2	Negative
502	VENT	METAL	UPPER	GOOD	WHITE	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
503	CEILING	PLASTER	UPPER	FAIR	YELLOW	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
504	CEILING	PLASTER	UPPER	FAIR	YELLOW	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
505	TILE	CERAMIC	C	GOOD	WHITE	FLH	RH	FIRST	149	0.01	mg / cm ^2	Negative
506	TILE	CERAMIC	C	GOOD	WHITE	FLH	RH	FIRST	149	0.04	mg / cm ^2	Negative
507	BATHTUB	CERAMIC	C	GOOD	WHITE	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
508	DOOR JAMB	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	149	0.01	mg / cm ^2	Negative
509	DOOR JAMB	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	149	0.03	mg / cm ^2	Negative
510	DOOR JAMB	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	149	0.03	mg / cm ^2	Negative
511	DOOR JAMB	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	149	0.01	mg / cm ^2	Negative
512	DOOR JAMB	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
513	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
514	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
515	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
516	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	149	0	mg / cm ^2	Negative
517			CALIBRATE			FLH	RH			0	mg / cm ^2	Negative
519			CALIBRATE			FLH	RH			1	mg / cm ^2	Positive
520			CALIBRATE			FLH	RH			1.5	mg / cm ^2	Positive
521			CALIBRATE			FLH	RH			3.2	mg / cm ^2	Positive
528	WALL	DRYWALL	A	POOR	GREEN	FLH	RH	FIRST	156	0	mg / cm ^2	Negative
529	WALL	DRYWALL	A	POOR	GREEN	FLH	RH	FIRST	156	0.14	mg / cm ^2	Negative
530	WALL	DRYWALL	A	POOR	GREEN	FLH	RH	FIRST	156	0	mg / cm ^2	Negative
531	WALL	DRYWALL	B	POOR	GREEN	FLH	RH	FIRST	156	0.13	mg / cm ^2	Negative
532	WALL	DRYWALL	B	POOR	GREEN	FLH	RH	FIRST	156	0.08	mg / cm ^2	Negative
533	WALL	DRYWALL	B	POOR	GREEN	FLH	RH	FIRST	156	0.22	mg / cm ^2	Negative
534	WALL	DRYWALL	B	POOR	GREEN	FLH	RH	FIRST	156	-0.05	mg / cm ^2	Negative
535	WALL	DRYWALL	C	POOR	PINK	FLH	RH	FIRST	156	0.01	mg / cm ^2	Negative
536	WALL	DRYWALL	C	POOR	PINK	FLH	RH	FIRST	156	0	mg / cm ^2	Negative
537	WALL	DRYWALL	C	POOR	PINK	FLH	RH	FIRST	156	0.13	mg / cm ^2	Negative
538	WALL	DRYWALL	D	POOR	PINK	FLH	RH	FIRST	156	0	mg / cm ^2	Negative
539	WALL	DRYWALL	D	POOR	PINK	FLH	RH	FIRST	156	0	mg / cm ^2	Negative
540	WALL	DRYWALL	D	POOR	GREEN	FLH	RH	FIRST	156	0	mg / cm ^2	Negative
541	WALL	DRYWALL	D	POOR	GREEN	FLH	RH	FIRST	156	0.14	mg / cm ^2	Negative

542	WALL	DRYWALL	D	POOR	GREEN	FLH	RH	FIRST	156	0	mg / cm ^2	Negative
543	WALL	DRYWALL	D	POOR	GREEN	FLH	RH	FIRST	156	0.07	mg / cm ^2	Negative
544	WALL	DRYWALL	A	POOR	GREEN	FLH	RH	FIRST	156	0	mg / cm ^2	Negative
545	WALL	DRYWALL	B	POOR	GREEN	FLH	RH	FIRST	156	0.09	mg / cm ^2	Negative
546	WALL	DRYWALL	B	POOR	GREEN	FLH	RH	FIRST	156	0	mg / cm ^2	Negative
547	WALL	DRYWALL	C	POOR	GREEN	FLH	RH	FIRST	156	0.06	mg / cm ^2	Negative
548	WALL	DRYWALL	C	POOR	GREEN	FLH	RH	FIRST	156	0	mg / cm ^2	Negative
550	SHOWER BASE	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	156	6.4	mg / cm ^2	Positive
551	SHOWER BASE	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	156	9	mg / cm ^2	Positive
552	TOILET	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	156	0.01	mg / cm ^2	Negative
553	TOILET	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	156	0.04	mg / cm ^2	Negative
554	WINDOW FRAME	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	156	0.02	mg / cm ^2	Negative
555	WINDOW FRAME	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	156	0	mg / cm ^2	Negative
556	WINDOW SILL	WOOD	C	FAIR	PINK	FLH	RH	FIRST	156	0	mg / cm ^2	Negative
557	WINDOW SILL	WOOD	C	FAIR	PINK	FLH	RH	FIRST	156	0	mg / cm ^2	Negative
558	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	156	0	mg / cm ^2	Negative
559	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	156	0	mg / cm ^2	Negative
560	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	156	0	mg / cm ^2	Negative
561	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	156	0.01	mg / cm ^2	Negative
562	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	156	0	mg / cm ^2	Negative
563	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	156	0	mg / cm ^2	Negative
564			CALIBRATE			FLH	RH		156	0	mg / cm ^2	Negative
565			CALIBRATE			FLH	RH		156	1.1	mg / cm ^2	Positive
566			CALIBRATE			FLH	RH		156	1.6	mg / cm ^2	Positive
567			CALIBRATE			FLH	RH		156	3.3	mg / cm ^2	Positive
569	WALL	PLASTER	A	POOR	GREEN	FLH	RH	FIRST	148	0.09	mg / cm ^2	Negative
570	WALL	PLASTER	A	POOR	GREEN	FLH	RH	FIRST	148	0	mg / cm ^2	Negative
571	WALL	PLASTER	A	POOR	GREEN	FLH	RH	FIRST	148	0	mg / cm ^2	Negative
572	WALL	PLASTER	B	POOR	GREEN	FLH	RH	FIRST	148	0.03	mg / cm ^2	Negative
573	WALL	PLASTER	B	POOR	GREEN	FLH	RH	FIRST	148	0.16	mg / cm ^2	Negative
575	WALL	PLASTER	C	POOR	GREEN	FLH	RH	FIRST	148	0.09	mg / cm ^2	Negative
576	WALL	PLASTER	C	POOR	GREEN	FLH	RH	FIRST	148	0	mg / cm ^2	Negative
577	WALL	PLASTER	C	POOR	GREEN	FLH	RH	FIRST	148	0.1	mg / cm ^2	Negative
578	WALL	PLASTER	D	POOR	GREEN	FLH	RH	FIRST	148	0.06	mg / cm ^2	Negative

579	WALL	PLASTER	D	POOR	GREEN	FLH	RH	FIRST	148	0.03	mg / cm ^2	Negative
580	WINDOW FRAME	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	148	0	mg / cm ^2	Negative
582	WINDOW FRAME	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	148	0	mg / cm ^2	Negative
583	WINDOW SILL	WOOD	A	FAIR	WHITE	FLH	RH	FIRST	148	0	mg / cm ^2	Negative
584	WINDOW SILL	WOOD	A	FAIR	WHITE	FLH	RH	FIRST	148	0	mg / cm ^2	Negative
585	DOOR JAMB	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	148	0	mg / cm ^2	Negative
586	DOOR JAMB	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	148	0.01	mg / cm ^2	Negative
587	DOOR JAMB	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	148	0.02	mg / cm ^2	Negative
588	DOOR JAMB	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	148	0.3	mg / cm ^2	Negative
589	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	157	0	mg / cm ^2	Negative
590	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	157	0	mg / cm ^2	Negative
591	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	157	0	mg / cm ^2	Negative
592	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	157	0	mg / cm ^2	Negative
593	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	157	0	mg / cm ^2	Negative
594	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	157	0	mg / cm ^2	Negative
595	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	157	0	mg / cm ^2	Negative
596	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	157	0	mg / cm ^2	Negative
597	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	157	0	mg / cm ^2	Negative
598	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	157	0	mg / cm ^2	Negative
599	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	157	0	mg / cm ^2	Negative
600	DOOR JAMB	METAL	A	GOOD	WHITE	FLH	RH	FIRST	157	0	mg / cm ^2	Negative
601	DOOR JAMB	METAL	A	GOOD	WHITE	FLH	RH	FIRST	157	0	mg / cm ^2	Negative
602	DOOR JAMB	METAL	A	GOOD	WHITE	FLH	RH	FIRST	157	0.01	mg / cm ^2	Negative
603	DOOR JAMB	METAL	D	GOOD	WHITE	FLH	RH	FIRST	157	0	mg / cm ^2	Negative
604	DOOR JAMB	METAL	D	GOOD	WHITE	FLH	RH	FIRST	157	0	mg / cm ^2	Negative
605	DOOR JAMB	METAL	D	GOOD	WHITE	FLH	RH	FIRST	157	0	mg / cm ^2	Negative
606	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
607	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
608	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
609	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
610	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
611	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
612	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
613	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative

614	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
615	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
616	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
617	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
618	CEILING	DRYWALL	UPPER	POOR	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
619	CEILING	DRYWALL	UPPER	POOR	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
620	CEILING	DRYWALL	UPPER	POOR	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
621	DOOR JAMB	METAL	C	GOOD	BROWN	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
622	DOOR JAMB	METAL	C	GOOD	BROWN	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
624	DOOR JAMB	METAL	C	GOOD	BROWN	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
625	SHOWER BASE	CERAMIC	C	GOOD	WHITE	FLH	RH	FIRST	158	5.3	mg / cm ^2	Positive
626	SHOWER BASE	CERAMIC	C	GOOD	WHITE	FLH	RH	FIRST	158	7.8	mg / cm ^2	Positive
627	TILE	CERAMIC	C	GOOD	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
629	TILE	CERAMIC	C	GOOD	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
630	WALL	PLASTER	A	POOR	BLUE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
631	WALL	PLASTER	A	POOR	BLUE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
632	WALL	DRYWALL	B	POOR	BLUE	FLH	RH	FIRST	158	0.06	mg / cm ^2	Negative
633	WALL	DRYWALL	B	POOR	BLUE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
634	WALL	DRYWALL	B	POOR	BLUE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
635	WALL	DRYWALL	C	POOR	RED	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
636	WALL	DRYWALL	C	POOR	RED	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
638	WALL	DRYWALL	C	POOR	RED	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
639	WALL	DRYWALL	D	POOR	BLUE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
640	WALL	DRYWALL	D	POOR	BLUE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
641	WALL	DRYWALL	D	POOR	BLUE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
642	RADIATOR	METAL	A	GOOD	BLUE	FLH	RH	FIRST	158	0.15	mg / cm ^2	Negative
643	RADIATOR	METAL	A	GOOD	BLUE	FLH	RH	FIRST	158	0.09	mg / cm ^2	Negative
644	WINDOW FRAME	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
645	WINDOW FRAME	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
646	WINDOW SILL	WOOD	A	FAIR	BLUE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
647	WINDOW SILL	WOOD	A	FAIR	BLUE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
648	DOOR JAMB	METAL	C	FAIR	BLUE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
649	DOOR JAMB	METAL	C	FAIR	BLUE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
650	DOOR JAMB	METAL	C	FAIR	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative

651	DOOR JAMB	METAL	C	FAIR	WHITE	FLH	RH	FIRST	158	0	mg / cm ^2	Negative
652	WALL	DRYWALL	A	FAIR	WHITE	FLH	RH	FIRST	146	0	mg / cm ^2	Negative
653	WALL	DRYWALL	A	FAIR	WHITE	FLH	RH	FIRST	146	0	mg / cm ^2	Negative
654	WALL	DRYWALL	B	FAIR	WHITE	FLH	RH	FIRST	146	0	mg / cm ^2	Negative
655	WALL	DRYWALL	B	FAIR	WHITE	FLH	RH	FIRST	146	0	mg / cm ^2	Negative
656	WALL	DRYWALL	B	FAIR	WHITE	FLH	RH	FIRST	146	0	mg / cm ^2	Negative
657	WALL	DRYWALL	C	FAIR	WHITE	FLH	RH	FIRST	146	0	mg / cm ^2	Negative
658	WALL	DRYWALL	C	FAIR	WHITE	FLH	RH	FIRST	146	0	mg / cm ^2	Negative
659	WALL	DRYWALL	C	FAIR	WHITE	FLH	RH	FIRST	146	0	mg / cm ^2	Negative
660	WALL	DRYWALL	D	FAIR	WHITE	FLH	RH	FIRST	146	0	mg / cm ^2	Negative
661	WALL	DRYWALL	D	FAIR	WHITE	FLH	RH	FIRST	146	0	mg / cm ^2	Negative
662	WALL	DRYWALL	D	FAIR	WHITE	FLH	RH	FIRST	146	0	mg / cm ^2	Negative
663	WINDOW FRAME	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	146	0.02	mg / cm ^2	Negative
664	WINDOW SILL	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	146	0	mg / cm ^2	Negative
665	DOOR JAMB	METAL	C	GOOD	BEIGE	FLH	RH	FIRST	146	0	mg / cm ^2	Negative
666	DOOR JAMB	METAL	C	GOOD	BEIGE	FLH	RH	FIRST	146	0	mg / cm ^2	Negative
667	DOOR JAMB	METAL	C	GOOD	BEIGE	FLH	RH	FIRST	146	0.03	mg / cm ^2	Negative
668	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	145	0	mg / cm ^2	Negative
669	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	145	0	mg / cm ^2	Negative
670	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	145	0	mg / cm ^2	Negative
671	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	145	0	mg / cm ^2	Negative
672	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	145	0	mg / cm ^2	Negative
673	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	145	0	mg / cm ^2	Negative
674	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	145	0	mg / cm ^2	Negative
675	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	145	0	mg / cm ^2	Negative
676	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	145	0	mg / cm ^2	Negative
677	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	145	0	mg / cm ^2	Negative
678	WALL	DRYWALL	A	POOR	GREEN	FLH	RH	FIRST	145	0.05	mg / cm ^2	Negative
679	WALL	DRYWALL	A	POOR	GREEN	FLH	RH	FIRST	145	0.09	mg / cm ^2	Negative
680	WINDOW	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	145	0	mg / cm ^2	Negative
681	WINDOW	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	145	0	mg / cm ^2	Negative
682	WINDOW SILL	WOOD	A	FAIR	WHITE	FLH	RH	FIRST	145	0	mg / cm ^2	Negative
683	WINDOW SILL	WOOD	A	FAIR	WHITE	FLH	RH	FIRST	145	0	mg / cm ^2	Negative
684	DOOR JAMB	METAL	C	FAIR	WHITE	FLH	RH	FIRST	145	0	mg / cm ^2	Negative

685	DOOR JAMB	METAL	C	FAIR	WHITE	FLH	RH	FIRST	145	0	mg / cm ^2	Negative
686	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	144	0.25	mg / cm ^2	Negative
687	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	144	0.29	mg / cm ^2	Negative
688	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	144	0.4	mg / cm ^2	Negative
689	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	144	0.07	mg / cm ^2	Negative
691	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	144	0.14	mg / cm ^2	Negative
692	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	144	0.23	mg / cm ^2	Negative
693	WALL	DRYWALL	A	POOR	BLUE	FLH	RH	FIRST	144	0.26	mg / cm ^2	Negative
694	WALL	DRYWALL	B	POOR	BLUE	FLH	RH	FIRST	144	0.2	mg / cm ^2	Negative
695	WALL	DRYWALL	B	POOR	BLUE	FLH	RH	FIRST	144	0.27	mg / cm ^2	Negative
696	WALL	DRYWALL	D	POOR	BLUE	FLH	RH	FIRST	144	0.2	mg / cm ^2	Negative
697	WALL	DRYWALL	D	POOR	BLUE	FLH	RH	FIRST	144	0.19	mg / cm ^2	Negative
698	WALL	PLASTER	A	POOR	WHITE	FLH	RH	FIRST	143a	0	mg / cm ^2	Negative
699	WALL	PLASTER	A	POOR	WHITE	FLH	RH	FIRST	143a	0.4	mg / cm ^2	Negative
700	WALL	PLASTER	B	POOR	WHITE	FLH	RH	FIRST	143a	0.03	mg / cm ^2	Negative
701	WALL	PLASTER	B	POOR	WHITE	FLH	RH	FIRST	143a	0.03	mg / cm ^2	Negative
702	WALL	PLASTER	C	POOR	WHITE	FLH	RH	FIRST	143a	0.02	mg / cm ^2	Negative
703	WALL	PLASTER	C	POOR	WHITE	FLH	RH	FIRST	143a	0	mg / cm ^2	Negative
704	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	143a	0.07	mg / cm ^2	Negative
705	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	143a	-0.25	mg / cm ^2	Negative
706	RADIATOR	METAL	A	GOOD	WHITE	FLH	RH	FIRST	143a	0.07	mg / cm ^2	Negative
707	RADIATOR	METAL	A	GOOD	WHITE	FLH	RH	FIRST	143a	0.03	mg / cm ^2	Negative
708	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	143a	0	mg / cm ^2	Negative
709	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	143a	0.04	mg / cm ^2	Negative
710	VENT	METAL	C	FAIR	WHITE	FLH	RH	FIRST	143a	0.02	mg / cm ^2	Negative
711	WALL	DRYWALL	A	FAIR	WHITE	FLH	RH	FIRST	143b	0.06	mg / cm ^2	Negative
712	WALL	DRYWALL	A	FAIR	WHITE	FLH	RH	FIRST	143b	-0.64	mg / cm ^2	Negative
713	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	143b	0.06	mg / cm ^2	Negative
714	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	143b	0.03	mg / cm ^2	Negative
715	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	143b	0.02	mg / cm ^2	Negative
716	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	143b	0.02	mg / cm ^2	Negative
717	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	143b	0.02	mg / cm ^2	Negative
718	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	143b	0.03	mg / cm ^2	Negative
719	CEILING	DRYWALL	UPPER	POOR	WHITE	FLH	RH	FIRST	143b	0.19	mg / cm ^2	Negative

720	CEILING	DRYWALL	UPPER	POOR	WHITE	FLH	RH	FIRST	143b	0.24	mg / cm ^2	Negative
721	HATCH	METAL	UPPER	GOOD	WHITE	FLH	RH	FIRST	143b	0.4	mg / cm ^2	Negative
722	HATCH	METAL	UPPER	GOOD	WHITE	FLH	RH	FIRST	143b	0.25	mg / cm ^2	Negative
723	HATCH	METAL	UPPER	GOOD	WHITE	FLH	RH	FIRST	143b	0.27	mg / cm ^2	Negative
724	WALL	PLASTER	A	POOR	WHITE	FLH	RH	FIRST	142	0	mg / cm ^2	Negative
725	WALL	PLASTER	A	POOR	WHITE	FLH	RH	FIRST	142	0	mg / cm ^2	Negative
726	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	142	0	mg / cm ^2	Negative
727	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	142	0.06	mg / cm ^2	Negative
728	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	142	0	mg / cm ^2	Negative
729	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	142	0.09	mg / cm ^2	Negative
730	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	142	0	mg / cm ^2	Negative
731	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	142	0	mg / cm ^2	Negative
732	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	142	0.15	mg / cm ^2	Negative
733	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	142	0.19	mg / cm ^2	Negative
734	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	142	0.07	mg / cm ^2	Negative
735	CEILING	DRYWALL	UPPER	POOR	WHITE	FLH	RH	FIRST	142	-0.03	mg / cm ^2	Negative
736	CEILING	DRYWALL	UPPER	POOR	WHITE	FLH	RH	FIRST	142	0	mg / cm ^2	Negative
737	WINDOW	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	142	0	mg / cm ^2	Negative
738	WINDOW	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	142	0	mg / cm ^2	Negative
739	WINDOW SILL	WOOD	A	FAIR	WHITE	FLH	RH	FIRST	142	0	mg / cm ^2	Negative
740	DOOR JAMB	METAL	C	FAIR	WHITE	FLH	RH	FIRST	142	0	mg / cm ^2	Negative
741	DOOR JAMB	METAL	C	FAIR	WHITE	FLH	RH	FIRST	142	0	mg / cm ^2	Negative
742	WALL	PLASTER	A	POOR	WHITE	FLH	RH	FIRST	142	0.17	mg / cm ^2	Negative
743	WALL	PLASTER	A	POOR	WHITE	FLH	RH	FIRST	142	-0.04	mg / cm ^2	Negative
744	WALL	PLASTER	A	POOR	WHITE	FLH	RH	FIRST	142	0.22	mg / cm ^2	Negative
745	WALL	PLASTER	B	POOR	WHITE	FLH	RH	FIRST	142	0.19	mg / cm ^2	Negative
746	WALL	PLASTER	B	POOR	WHITE	FLH	RH	FIRST	142	0.03	mg / cm ^2	Negative
747	WALL	PLASTER	C	POOR	WHITE	FLH	RH	FIRST	142	0.23	mg / cm ^2	Negative
748	WALL	PLASTER	C	POOR	WHITE	FLH	RH	FIRST	142	0.3	mg / cm ^2	Negative
750	WALL	PLASTER	C	POOR	WHITE	FLH	RH	FIRST	142	0.2	mg / cm ^2	Negative
751	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	142	0.14	mg / cm ^2	Negative
752	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	142	0.24	mg / cm ^2	Negative
753	CEILING	PLASTER	UPPER	POOR	WHITE	FLH	RH	FIRST	142	0.12	mg / cm ^2	Negative
755			CALIBRATE			FLH	RH			0	mg / cm ^2	Negative

756			CALIBRATE			FLH	RH			1.2	mg / cm ^2	Positive
757			CALIBRATE			FLH	RH			1.5	mg / cm ^2	Positive
758			CALIBRATE			FLH	RH			3.7	mg / cm ^2	Positive
766	WALL	PLASTER	A	POOR	WHITE	FLH	RH	FIRST	140	0.4	mg / cm ^2	Negative
767	WALL	PLASTER	A	POOR	WHITE	FLH	RH	FIRST	140	0.3	mg / cm ^2	Negative
769	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	140	0	mg / cm ^2	Negative
770	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	140	-0.01	mg / cm ^2	Negative
771	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	140	0.1	mg / cm ^2	Negative
772	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	140	0.4	mg / cm ^2	Negative
773	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	140	0.01	mg / cm ^2	Negative
774	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	140	0.2	mg / cm ^2	Negative
775	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	140	0.4	mg / cm ^2	Negative
776	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	140	0	mg / cm ^2	Negative
777	WALL	DRYWALL	C	POOR	BLUE	FLH	RH	FIRST	140	0	mg / cm ^2	Negative
778	WALL	DRYWALL	C	POOR	BLUE	FLH	RH	FIRST	140	0	mg / cm ^2	Negative
779	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	140	0.4	mg / cm ^2	Negative
780	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	140	0	mg / cm ^2	Negative
782	WALL	DRYWALL	C	POOR	BLUE	FLH	RH	FIRST	140	0.4	mg / cm ^2	Negative
784	WALL	DRYWALL	C	POOR	BLUE	FLH	RH	FIRST	140	0	mg / cm ^2	Negative
785	SINK	CERAMIC	A	CRACKED	WHITE	FLH	RH	FIRST	140	4	mg / cm ^2	Positive
786	ROOF VENT	METAL	UPPER	GOOD	RED	FLH	RH	FIRST	140	0	mg / cm ^2	Negative
787	ROOF VENT	METAL	UPPER	GOOD	RED	FLH	RH	FIRST	140	0	mg / cm ^2	Negative
788	FIRE HOSE CASE	METAL	A	GOOD	RED	FLH	RH	FIRST	140	0.22	mg / cm ^2	Negative
789	FIRE HOSE CASE	METAL	A	GOOD	RED	FLH	RH	FIRST	140	0.23	mg / cm ^2	Negative
790	WALL	DRYWALL	A	POOR	BROWN	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
791	WALL	DRYWALL	A	POOR	BROWN	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
792	WALL	DRYWALL	A	POOR	BROWN	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
793	WALL	DRYWALL	B	POOR	RED	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
794	WALL	DRYWALL	B	POOR	RED	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
795	WALL	DRYWALL	B	POOR	RED	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
796	WALL	DRYWALL	B	POOR	BLUE	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
797	WALL	DRYWALL	B	POOR	BLUE	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
798	WALL	DRYWALL	B	POOR	BLUE	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
799	WALL	DRYWALL	B	POOR	BLUE	FLH	RH	FIRST	159	0	mg / cm ^2	Negative

800	WALL	DRYWALL	C	POOR	BLUE	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
802	WALL	DRYWALL	C	POOR	BLUE	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
803	WALL	DRYWALL	C	POOR	BLUE	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
804	WALL	DRYWALL	D	POOR	YELLOW	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
805	WALL	DRYWALL	D	POOR	YELLOW	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
806	WALL	DRYWALL	D	POOR	YELLOW	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
807	WALL	DRYWALL	D	POOR	YELLOW	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
808	WALL	DRYWALL	D	POOR	YELLOW	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
809	COUNTER TOP	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
810	COUNTER TOP	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
811	COUNTER TOP	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
812	PIPE CLAMP	METAL	UPPER	GOOD	RED	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
813	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
814	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
815	WINDOW SILL	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
816	WINDOW SILL	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
817	WINDOW TRIM	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
818	WINDOW TRIM	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	159	0	mg / cm ^2	Negative
819	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	161	0	mg / cm ^2	Negative
820	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	161	0.5	mg / cm ^2	Negative
821	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	161	0	mg / cm ^2	Negative
822	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	161	0	mg / cm ^2	Negative
823	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	161	0	mg / cm ^2	Negative
824	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	161	0.11	mg / cm ^2	Negative
825	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	161	0.5	mg / cm ^2	Negative
826	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	161	0.3	mg / cm ^2	Negative
827	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	161	0	mg / cm ^2	Negative
828	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	161	0.03	mg / cm ^2	Negative
829	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	161	0	mg / cm ^2	Negative
830	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	161	0.26	mg / cm ^2	Negative
831	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	161	0.22	mg / cm ^2	Negative
832	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	161	0	mg / cm ^2	Negative
833	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	161	0	mg / cm ^2	Negative
834	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	161	0	mg / cm ^2	Negative

835	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	161	0.11	mg / cm ^2	Negative
836	RADIATOR	METAL	B	GOOD	WHITE	FLH	RH	FIRST	161	0	mg / cm ^2	Negative
837	RADIATOR	METAL	B	GOOD	WHITE	FLH	RH	FIRST	161	0	mg / cm ^2	Negative
838	RADIATOR	METAL	B	GOOD	WHITE	FLH	RH	FIRST	161	0	mg / cm ^2	Negative
839	DOOR	WOOD	B	GOOD	STAIN	FLH	RH	FIRST	161	0	mg / cm ^2	Negative
840	DOOR	WOOD	B	GOOD	STAIN	FLH	RH	FIRST	161	0	mg / cm ^2	Negative
841	DOOR	WOOD	B	GOOD	STAIN	FLH	RH	FIRST	161	0	mg / cm ^2	Negative
842	DOOR JAMB	METAL	B	GOOD	TAN	FLH	RH	FIRST	161	0	mg / cm ^2	Negative
843	DOOR JAMB	METAL	B	GOOD	TAN	FLH	RH	FIRST	161	0	mg / cm ^2	Negative
844	DOOR JAMB	METAL	B	GOOD	TAN	FLH	RH	FIRST	161	0	mg / cm ^2	Negative
845	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	160	0	mg / cm ^2	Negative
846	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	160	0	mg / cm ^2	Negative
847	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	160	0	mg / cm ^2	Negative
848	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	160	0	mg / cm ^2	Negative
849	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	160	0	mg / cm ^2	Negative
850	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	160	0	mg / cm ^2	Negative
851	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	160	0	mg / cm ^2	Negative
852	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	160	0	mg / cm ^2	Negative
853	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	160	0	mg / cm ^2	Negative
854	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	160	0.3	mg / cm ^2	Negative
855	WALL	DRYWALL	B	POOR	BLUE	FLH	RH	FIRST	160	0	mg / cm ^2	Negative
856	WALL	DRYWALL	B	POOR	BLUE	FLH	RH	FIRST	160	0	mg / cm ^2	Negative
857	WALL	DRYWALL	C	POOR	BLUE	FLH	RH	FIRST	160	0	mg / cm ^2	Negative
858	WALL	DRYWALL	C	POOR	BLUE	FLH	RH	FIRST	160	0	mg / cm ^2	Negative
859	WALL	DRYWALL	D	POOR	BLUE	FLH	RH	FIRST	160	0	mg / cm ^2	Negative
860	WALL	DRYWALL	D	POOR	BLUE	FLH	RH	FIRST	160	0	mg / cm ^2	Negative
861	WALL	DRYWALL	D	POOR	BLUE	FLH	RH	FIRST	160	0.29	mg / cm ^2	Negative
863	WALL	DRYWALL	D	POOR	BLUE	FLH	RH	FIRST	160	0.3	mg / cm ^2	Negative
864	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
865	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
866	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
868	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
869	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
870	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	184	0	mg / cm ^2	Negative

871	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
872	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
873	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
874	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
875	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
876	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
877	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
878	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
879	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
880	TILE	CERAMIC	C	FAIR	WHITE	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
881	TILE	CERAMIC	C	FAIR	WHITE	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
882	TILE	CERAMIC	C	FAIR	BLUE	FLH	RH	FIRST	184	0.01	mg / cm ^2	Negative
883	TILE	CERAMIC	C	FAIR	BLUE	FLH	RH	FIRST	184	0.08	mg / cm ^2	Negative
884	TILE	CERAMIC	LOWER	FAIR	BROWN	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
885	TILE	CERAMIC	LOWER	FAIR	BROWN	FLH	RH	FIRST	184	0.03	mg / cm ^2	Negative
886	TOILET	CERAMIC	D	FAIR	WHITE	FLH	RH	FIRST	184	0.01	mg / cm ^2	Negative
887	TOILET	CERAMIC	D	FAIR	WHITE	FLH	RH	FIRST	184	0.01	mg / cm ^2	Negative
888	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
889	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
890	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
891	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
892	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
893	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
894	DOOR JAMB	METAL	A	FAIR	TAN	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
895	DOOR JAMB	METAL	A	FAIR	TAN	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
896	DOOR JAMB	METAL	A	FAIR	TAN	FLH	RH	FIRST	184	0.01	mg / cm ^2	Negative
897	DOOR JAMB	METAL	B	FAIR	TAN	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
898	DOOR JAMB	METAL	B	FAIR	TAN	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
900	DOOR JAMB	METAL	B	FAIR	TAN	FLH	RH	FIRST	184	0	mg / cm ^2	Negative
901	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	183	0	mg / cm ^2	Negative
902	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	183	0	mg / cm ^2	Negative
903	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	183	0	mg / cm ^2	Negative
904	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	183	0	mg / cm ^2	Negative
905	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	183	0	mg / cm ^2	Negative

906	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	183	0	mg / cm ^2	Negative
907	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	183	0	mg / cm ^2	Negative
908	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	183	0	mg / cm ^2	Negative
909	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	183	0	mg / cm ^2	Negative
910	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	183	0	mg / cm ^2	Negative
911	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	183	0	mg / cm ^2	Negative
913	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	183	0	mg / cm ^2	Negative
914	DOOR JAMB	METAL	A	PEELING	WHITE	FLH	RH	FIRST	183	0	mg / cm ^2	Negative
915	DOOR JAMB	METAL	A	PEELING	WHITE	FLH	RH	FIRST	183	0	mg / cm ^2	Negative
916	DOOR JAMB	METAL	A	PEELING	WHITE	FLH	RH	FIRST	183	0	mg / cm ^2	Negative
917	DOOR JAMB	METAL	A	PEELING	WHITE	FLH	RH	FIRST	183	0	mg / cm ^2	Negative
918	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
919	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
920	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
921	WALL	DRYWALL	A	POOR	BLUE	FLH	RH	FIRST	163	0.06	mg / cm ^2	Negative
922	WALL	DRYWALL	A	POOR	BLUE	FLH	RH	FIRST	163	0.06	mg / cm ^2	Negative
923	WALL	DRYWALL	A	POOR	BLUE	FLH	RH	FIRST	163	0.09	mg / cm ^2	Negative
924	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
925	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
926	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	163	0.04	mg / cm ^2	Negative
927	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
929	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
930	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
931	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
932	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	163	0.01	mg / cm ^2	Negative
933	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
934	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
935	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
936	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	163	0.1	mg / cm ^2	Negative
937	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
938	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
939	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
940	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
942	TILE	CERAMIC	D	FAIR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative

943	TILE	CERAMIC	D	FAIR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
944	TILE	CERAMIC	D	FAIR	BROWN	FLH	RH	FIRST	163	0.07	mg / cm ^2	Negative
945	TILE	CERAMIC	D	FAIR	BROWN	FLH	RH	FIRST	163	0.02	mg / cm ^2	Negative
946	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
947	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
949	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
950	DOOR JAMB	METAL	C	FAIR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
951	DOOR JAMB	METAL	C	FAIR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
952	DOOR JAMB	METAL	D	FAIR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
953	DOOR JAMB	METAL	D	FAIR	WHITE	FLH	RH	FIRST	163	0.02	mg / cm ^2	Negative
954	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
955	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
956	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
957	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	163	0.02	mg / cm ^2	Negative
958	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
959	WINDOW SILL	WOOD	B	FAIR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
960	WINDOW SILL	WOOD	B	FAIR	WHITE	FLH	RH	FIRST	163	0	mg / cm ^2	Negative
961	WALL	DRYWALL	A	FAIR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
962	WALL	DRYWALL	A	FAIR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
963	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
964	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
965	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
966	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
967	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	164	0.07	mg / cm ^2	Negative
968	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	164	0.1	mg / cm ^2	Negative
969	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
970	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
971	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
972	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
973	TILE	CERAMIC	A	FAIR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
974	TILE	CERAMIC	A	FAIR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
975	TILE	CERAMIC	A	FAIR	BROWN	FLH	RH	FIRST	164	0.06	mg / cm ^2	Negative
976	TILE	CERAMIC	A	FAIR	BROWN	FLH	RH	FIRST	164	0.01	mg / cm ^2	Negative
977	TILE	CERAMIC	B	FAIR	BROWN	FLH	RH	FIRST	164	0.03	mg / cm ^2	Negative

978	TILE	CERAMIC	B	FAIR	BROWN	FLH	RH	FIRST	164	0.01	mg / cm ^2	Negative
979	TILE	CERAMIC	B	FAIR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
980	TILE	CERAMIC	B	FAIR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
981	TILE	CERAMIC	C	FAIR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
982	TILE	CERAMIC	C	FAIR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
983	TILE	CERAMIC	D	FAIR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
984	TILE	CERAMIC	D	FAIR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
985	CEILING	PLASTER	UPPER	FAIR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
986	CEILING	PLASTER	UPPER	FAIR	WHITE	FLH	RH	FIRST	164	0.01	mg / cm ^2	Negative
987	LIGHT	METAL	UPPER	FAIR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
988	LIGHT	METAL	UPPER	FAIR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
989	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
990	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
991	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
992	DOOR JAMB	METAL	D	GOOD	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
993	DOOR JAMB	METAL	D	GOOD	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
994	DOOR JAMB	METAL	D	GOOD	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
995	TOILET	CERAMIC	B	GOOD	WHITE	FLH	RH	FIRST	164	0.01	mg / cm ^2	Negative
996	TOILET	CERAMIC	B	GOOD	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
997	RADIATOR	METAL	A	GOOD	BROWN	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
998	RADIATOR	METAL	A	GOOD	BROWN	FLH	RH	FIRST	164	0.01	mg / cm ^2	Negative
999	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
1000	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	164	0.03	mg / cm ^2	Negative
1001	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	164	0.03	mg / cm ^2	Negative
1002	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	164	0.02	mg / cm ^2	Negative
1003	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	164	0.02	mg / cm ^2	Negative
1004	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	164	0.01	mg / cm ^2	Negative
1005	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	164	0.04	mg / cm ^2	Negative
1006	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	164	0.01	mg / cm ^2	Negative
1007	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	164	0.02	mg / cm ^2	Negative
1008	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
1009	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	164	0.03	mg / cm ^2	Negative
1010	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
1012	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative

1013	TILE	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
1014	TILE	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
1015	TILE	CERAMIC	A	GOOD	BROWN	FLH	RH	FIRST	164	0.01	mg / cm ^2	Negative
1016	TILE	CERAMIC	A	GOOD	BROWN	FLH	RH	FIRST	164	0.02	mg / cm ^2	Negative
1017	TOILET	CERAMIC	B	GOOD	WHITE	FLH	RH	FIRST	164	0.01	mg / cm ^2	Negative
1018	TOILET	CERAMIC	B	GOOD	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
1019	DOOR	WOOD	A	GOOD	STAIN	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
1020	DOOR	WOOD	A	GOOD	STAIN	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
1021	DOOR JAMB	METAL	A	GOOD	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
1022	DOOR JAMB	METAL	A	GOOD	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
1023	DOOR JAMB	METAL	A	GOOD	WHITE	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
1024	DOOR JAMB	WOOD	B	FAIR	JAMB	FLH	RH	FIRST	164	0.02	mg / cm ^2	Negative
1025	DOOR JAMB	WOOD	B	FAIR	JAMB	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
1026	DOOR JAMB	WOOD	B	FAIR	JAMB	FLH	RH	FIRST	164	0.02	mg / cm ^2	Negative
1027	DOOR	WOOD	B	FAIR	JAMB	FLH	RH	FIRST	164	0.02	mg / cm ^2	Negative
1028	DOOR	WOOD	B	FAIR	JAMB	FLH	RH	FIRST	164	0.04	mg / cm ^2	Negative
1030	WINDOW FRAME	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
1031	WINDOW FRAME	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
1032	WINDOW SILL	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
1033	WINDOW SILL	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	164	0.01	mg / cm ^2	Negative
1034	WINDOW TRIM	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
1035	WINDOW TRIM	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	164	0	mg / cm ^2	Negative
1036			CALIBRATE			FLH	RH			0.03	mg / cm ^2	Negative
1037			CALIBRATE			FLH	RH			1	mg / cm ^2	Positive
1038			CALIBRATE			FLH	RH			1.8	mg / cm ^2	Positive
1039			CALIBRATE			FLH	RH			4	mg / cm ^2	Positive
1040			CALIBRATE			FLH	RH			3.6	mg / cm ^2	Positive
1049	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	174	0.01	mg / cm ^2	Negative
1050	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1051	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1052	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1053	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1054	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1055	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	174	0	mg / cm ^2	Negative

1056	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1057	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1058	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1059	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1060	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1061	WINDOW FRAME	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1062	WINDOW FRAME	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1063	WINDOW FRAME	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1064	WINDOW SILL	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1065	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1066	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1067	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1068	DOOR FRAME	METAL	B	GOOD	WHITE	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1069	DOOR FRAME	METAL	B	GOOD	WHITE	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1070	DOOR FRAME	METAL	A	GOOD	WHITE	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1071	DOOR FRAME	METAL	A	GOOD	WHITE	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1072	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1073	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1074	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	174	0	mg / cm ^2	Negative
1075	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	175	0	mg / cm ^2	Negative
1076	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	175	0	mg / cm ^2	Negative
1077	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	175	0	mg / cm ^2	Negative
1078	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	175	0	mg / cm ^2	Negative
1079	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	175	0	mg / cm ^2	Negative
1080	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	175	0.5	mg / cm ^2	Negative
1081	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	175	0	mg / cm ^2	Negative
1082	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	175	0	mg / cm ^2	Negative
1084	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	176	0.02	mg / cm ^2	Negative
1085	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	176	0	mg / cm ^2	Negative
1086	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	176	0.11	mg / cm ^2	Negative
1087	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	176	0	mg / cm ^2	Negative
1088	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	176	0	mg / cm ^2	Negative
1089	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	176	0	mg / cm ^2	Negative
1090	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	176	0.02	mg / cm ^2	Negative

1091	DOOR JAMB	METAL	C	FAIR	WHITE	FLH	RH	FIRST	176	0	mg / cm ^2	Negative
1093	DOOR JAMB	METAL	C	FAIR	WHITE	FLH	RH	FIRST	176	0	mg / cm ^2	Negative
1094	DOOR JAMB	METAL	C	FAIR	WHITE	FLH	RH	FIRST	176	0	mg / cm ^2	Negative
1095	WINDOW FRAME	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	176	0	mg / cm ^2	Negative
1096	WINDOW FRAME	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	176	0	mg / cm ^2	Negative
1097	WINDOW SILL	WOOD	D	FAIR	WHITE	FLH	RH	FIRST	176	0	mg / cm ^2	Negative
1098	WINDOW SILL	WOOD	D	FAIR	WHITE	FLH	RH	FIRST	176	0	mg / cm ^2	Negative
1099	TILE	CERAMIC	D	GOOD	WHITE	FLH	RH	FIRST	176	0	mg / cm ^2	Negative
1100	TILE	CERAMIC	D	GOOD	WHITE	FLH	RH	FIRST	176	0	mg / cm ^2	Negative
1101	TILE	CERAMIC	D	GOOD	BROWN	FLH	RH	FIRST	176	0.03	mg / cm ^2	Negative
1102	TILE	CERAMIC	D	GOOD	BROWN	FLH	RH	FIRST	176	0.12	mg / cm ^2	Negative
1103	TOILET	CERAMIC	D	GOOD	WHITE	FLH	RH	FIRST	176	0.01	mg / cm ^2	Negative
1104	TOILET	CERAMIC	D	GOOD	WHITE	FLH	RH	FIRST	176	0.01	mg / cm ^2	Negative
1105	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	176	-0.16	mg / cm ^2	Negative
1106	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	176	0.01	mg / cm ^2	Negative
1107	LIGHT	METAL	UPPER	FAIR	WHITE	FLH	RH	FIRST	176	0	mg / cm ^2	Negative
1108	LIGHT	METAL	UPPER	FAIR	WHITE	FLH	RH	FIRST	176	0	mg / cm ^2	Negative
1109	AIR VENT	METAL	UPPER	FAIR	WHITE	FLH	RH	FIRST	176	0	mg / cm ^2	Negative
1111	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1112	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1114	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1115	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1116	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	177	0.01	mg / cm ^2	Negative
1117	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	177	0.01	mg / cm ^2	Negative
1118	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	177	0.03	mg / cm ^2	Negative
1119	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	177	0.02	mg / cm ^2	Negative
1120	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	177	0.01	mg / cm ^2	Negative
1121	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	177	0.05	mg / cm ^2	Negative
1122	WINDOW FRAME	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1123	WINDOW FRAME	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1124	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1125	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1126	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1127	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	177	0	mg / cm ^2	Negative

1128	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1129	DOOR JAMB	METAL	A	FAIR	WHITE	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1130	DOOR JAMB	METAL	A	FAIR	WHITE	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1131	DOOR JAMB	METAL	B	FAIR	WHITE	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1132	DOOR JAMB	METAL	B	FAIR	WHITE	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1133	TILE	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1134	TILE	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1135	TILE	CERAMIC	A	GOOD	BROWN	FLH	RH	FIRST	177	0.01	mg / cm ^2	Negative
1136	TILE	CERAMIC	A	GOOD	BROWN	FLH	RH	FIRST	177	0.04	mg / cm ^2	Negative
1137	TOILET	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	177	0.03	mg / cm ^2	Negative
1138	TOILET	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	177	0.02	mg / cm ^2	Negative
1139	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1140	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1141	LIGHT	METAL	UPPER	FAIR	WHITE	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1142	LIGHT	METAL	UPPER	FAIR	WHITE	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1143	AIR VENT	METAL	UPPER	FAIR	WHITE	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1144	AIR VENT	METAL	UPPER	FAIR	WHITE	FLH	RH	FIRST	177	0	mg / cm ^2	Negative
1145	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	178	0.06	mg / cm ^2	Negative
1146	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1147	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	178	0.03	mg / cm ^2	Negative
1148	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1149	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1150	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1151	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1153	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1154	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	178	0.01	mg / cm ^2	Negative
1155	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1156	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	178	0.03	mg / cm ^2	Negative
1157	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1158	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1159	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1160	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1161	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1162	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	178	0	mg / cm ^2	Negative

1163	DOOR JAMB	METAL	B	FAIR	WHITE	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1164	DOOR JAMB	METAL	B	FAIR	WHITE	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1165	DOOR JAMB	METAL	B	FAIR	WHITE	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1166	DOOR JAMB	METAL	C	FAIR	WHITE	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1167	DOOR JAMB	METAL	C	FAIR	WHITE	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1168	TOILET	CERAMIC	C	GOOD	WHITE	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1169	TOILET	CERAMIC	C	GOOD	WHITE	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1170	TOILET	CERAMIC	C	GOOD	BROWN	FLH	RH	FIRST	178	0.01	mg / cm ^2	Negative
1171	TOILET	CERAMIC	C	GOOD	BROWN	FLH	RH	FIRST	178	0.01	mg / cm ^2	Negative
1172	TILE	CERAMIC	C	GOOD	BROWN	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1174	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1175	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1177	LIGHT	METAL	UPPER	FAIR	WHITE	FLH	RH	FIRST	178	0	mg / cm ^2	Negative
1178	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1179	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1180	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1181	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1182	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1183	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1184	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1185	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1186	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	179	0.14	mg / cm ^2	Negative
1187	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1188	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1189	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1190	WINDOW FRAME	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1192	WINDOW SILL	WOOD	D	FAIR	WHITE	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1193	WINDOW SILL	WOOD	D	FAIR	WHITE	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1194	DOOR	METAL	B	FAIR	WHITE	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1195	DOOR	METAL	B	FAIR	WHITE	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1196	DOOR	METAL	B	FAIR	BROWN	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1197	DOOR	METAL	B	FAIR	BROWN	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1198	DOOR JAMB	METAL	B	FAIR	WHITE	FLH	RH	FIRST	179	0.02	mg / cm ^2	Negative
1199	DOOR JAMB	METAL	B	FAIR	WHITE	FLH	RH	FIRST	179	0	mg / cm ^2	Negative

1200	DOOR JAMB	METAL	B	FAIR	WHITE	FLH	RH	FIRST	179	0	mg / cm ^2	Negative
1201	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1202	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1203	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1204	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1205	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1206	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1207	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1208	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	180	0.06	mg / cm ^2	Negative
1209	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	180	-0.54	mg / cm ^2	Negative
1210	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	180	0.08	mg / cm ^2	Negative
1211	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	180	0.26	mg / cm ^2	Negative
1212	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1213	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1214	WINDOW FRAME	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1215	WINDOW FRAME	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1217	WINDOW SILL	WOOD	D	FAIR	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1218	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1219	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1220	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1221	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1222	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1223	DOOR JAMB	METAL	A	FAIR	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1224	DOOR JAMB	METAL	A	FAIR	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1225	DOOR JAMB	METAL	B	FAIR	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1226	DOOR JAMB	METAL	B	FAIR	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1228	TILE	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1229	TILE	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1230	TILE	CERAMIC	A	GOOD	BROWN	FLH	RH	FIRST	180	0.01	mg / cm ^2	Negative
1231	TILE	CERAMIC	A	GOOD	BROWN	FLH	RH	FIRST	180	0.03	mg / cm ^2	Negative
1232	TOILET	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	180	0.01	mg / cm ^2	Negative
1233	TOILET	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1234	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1235	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative

1236	LIGHT	METAL	UPPER	GOOD	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1237	VENT	METAL	UPPER	GOOD	WHITE	FLH	RH	FIRST	180	0	mg / cm ^2	Negative
1238	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	181	0.09	mg / cm ^2	Negative
1239	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	181	0.12	mg / cm ^2	Negative
1241	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1242	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1243	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1244	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1245	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1246	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1247	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1248	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1249	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	181	0.06	mg / cm ^2	Negative
1251	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1252	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1253	WINDOW FRAME	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1254	WINDOW FRAME	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1255	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1256	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1257	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1258	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1259	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1261	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1262	DOOR JAMB	METAL	C	FAIR	YELLOW	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1263	DOOR JAMB	METAL	C	FAIR	YELLOW	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1264	DOOR JAMB	METAL	C	FAIR	YELLOW	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1265	DOOR JAMB	METAL	B	FAIR	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1266	DOOR JAMB	METAL	B	FAIR	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1267	TILE	CERAMIC	C	FAIR	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1268	TILE	CERAMIC	C	FAIR	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1269	TILE	CERAMIC	C	FAIR	BROWN	FLH	RH	FIRST	181	0.01	mg / cm ^2	Negative
1270	TILE	CERAMIC	C	FAIR	BROWN	FLH	RH	FIRST	181	0.06	mg / cm ^2	Negative
1271	TOILET	CERAMIC	C	FAIR	WHITE	FLH	RH	FIRST	181	0.03	mg / cm ^2	Negative
1272	TOILET	CERAMIC	C	FAIR	WHITE	FLH	RH	FIRST	181	0.01	mg / cm ^2	Negative

1274	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1275	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1276	LIGHT	METAL	UPPER	FAIR	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1277	CHAIR RAIL	WOOD	C	GOOD	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1278	CHAIR RAIL	WOOD	C	GOOD	WHITE	FLH	RH	FIRST	181	0	mg / cm ^2	Negative
1279	WALL	PLASTER	A	FAIR	WHITE	FLH	RH	FIRST	173	0	mg / cm ^2	Negative
1280	WALL	PLASTER	A	FAIR	WHITE	FLH	RH	FIRST	173	0.14	mg / cm ^2	Negative
1281	WALL	PLASTER	A	FAIR	WHITE	FLH	RH	FIRST	173	0.23	mg / cm ^2	Negative
1282	WALL	PLASTER	B	FAIR	WHITE	FLH	RH	FIRST	173	0.21	mg / cm ^2	Negative
1283	WALL	PLASTER	B	FAIR	WHITE	FLH	RH	FIRST	173	0.21	mg / cm ^2	Negative
1284	WALL	PLASTER	C	FAIR	WHITE	FLH	RH	FIRST	173	0.13	mg / cm ^2	Negative
1285	WALL	PLASTER	C	FAIR	WHITE	FLH	RH	FIRST	173	0.19	mg / cm ^2	Negative
1286	WALL	PLASTER	D	FAIR	WHITE	FLH	RH	FIRST	173	0.29	mg / cm ^2	Negative
1287	WALL	PLASTER	D	FAIR	WHITE	FLH	RH	FIRST	173	0	mg / cm ^2	Negative
1288	RADIATOR	METAL	A	GOOD	WHITE	FLH	RH	FIRST	173	0.5	mg / cm ^2	Negative
1289	RADIATOR	METAL	A	GOOD	WHITE	FLH	RH	FIRST	173	0	mg / cm ^2	Negative
1290	RADIATOR	METAL	A	GOOD	WHITE	FLH	RH	FIRST	173	0.25	mg / cm ^2	Negative
1291	DOOR	WOOD	B	FAIR	WHITE	FLH	RH	FIRST	173	0	mg / cm ^2	Negative
1292	DOOR	WOOD	B	FAIR	WHITE	FLH	RH	FIRST	173	0	mg / cm ^2	Negative
1293	DOOR WINDOW FRAME	WOOD	B	FAIR	WHITE	FLH	RH	FIRST	173	0	mg / cm ^2	Negative
1294	DOOR WINDOW FRAME	WOOD	B	FAIR	WHITE	FLH	RH	FIRST	173	0	mg / cm ^2	Negative
1295	DOOR JAMB	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	173	0.04	mg / cm ^2	Negative
1296	DOOR JAMB	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	173	0.22	mg / cm ^2	Negative
1297	DOOR CASEING	WOOD	B	FAIR	WHITE	FLH	RH	FIRST	173	0.14	mg / cm ^2	Negative
1298	DOOR CASEING	WOOD	B	FAIR	WHITE	FLH	RH	FIRST	173	0.27	mg / cm ^2	Negative
1299	FLOOR	CONCRETE	LOWER	GOOD	GREY	FLH	RH	FIRST	173	0.07	mg / cm ^2	Negative
1300	FLOOR	CONCRETE	LOWER	GOOD	GREY	FLH	RH	FIRST	173	0.06	mg / cm ^2	Negative
1301	FLOOR	CONCRETE	LOWER	GOOD	GREY	FLH	RH	FIRST	173	0.07	mg / cm ^2	Negative
1302	FLOOR	CONCRETE	LOWER	GOOD	GREY	FLH	RH	FIRST	173	0.09	mg / cm ^2	Negative
1303	STAIR EDGEING	METAL	LOWER	GOOD	GOLD	FLH	RH	FIRST	173	10.2	mg / cm ^2	Positive
1304	STAIR EDGEING	METAL	LOWER	GOOD	GOLD	FLH	RH	FIRST	173	3	mg / cm ^2	Positive
1305			CALIBRATE			FLH	RH		173	0	mg / cm ^2	Negative
1307			CALIBRATE			FLH	RH		173	1.1	mg / cm ^2	Positive
1308			CALIBRATE			FLH	RH		173	1.4	mg / cm ^2	Positive

1309			CALIBRATE			FLH	RH		173	3.4	mg / cm ^2	Positive
1310	WALL	DRYWALL	A	POOR	TAN	FLH	RH	FIRST	172	0	mg / cm ^2	Negative
1312	WALL	DRYWALL	A	POOR	TAN	FLH	RH	FIRST	172	0.09	mg / cm ^2	Negative
1313	WALL	DRYWALL	A	POOR	TAN	FLH	RH	FIRST	172	0	mg / cm ^2	Negative
1314	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	172	0	mg / cm ^2	Negative
1317	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	172	0	mg / cm ^2	Negative
1318	WALL	DRYWALL	B	POOR	TAN	FLH	RH	FIRST	172	0.06	mg / cm ^2	Negative
1319	WALL	DRYWALL	B	POOR	TAN	FLH	RH	FIRST	172	0	mg / cm ^2	Negative
1320	WALL	DRYWALL	B	POOR	TAN	FLH	RH	FIRST	172	0	mg / cm ^2	Negative
1321	WALL	DRYWALL	C	POOR	TAN	FLH	RH	FIRST	172	0.05	mg / cm ^2	Negative
1322	WALL	DRYWALL	C	POOR	TAN	FLH	RH	FIRST	172	0.1	mg / cm ^2	Negative
1323	WALL	DRYWALL	C	POOR	TAN	FLH	RH	FIRST	172	0.11	mg / cm ^2	Negative
1324	WALL	DRYWALL	D	POOR	TAN	FLH	RH	FIRST	172	0.06	mg / cm ^2	Negative
1325	WALL	DRYWALL	D	POOR	TAN	FLH	RH	FIRST	172	0.06	mg / cm ^2	Negative
1326	WALL	DRYWALL	D	POOR	TAN	FLH	RH	FIRST	172	0.03	mg / cm ^2	Negative
1327	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	172	0	mg / cm ^2	Negative
1328	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	172	0	mg / cm ^2	Negative
1329	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	172	0.02	mg / cm ^2	Negative
1330	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	172	0.09	mg / cm ^2	Negative
1331	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	172	0.02	mg / cm ^2	Negative
1332	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	172	0.09	mg / cm ^2	Negative
1333	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	172	0.04	mg / cm ^2	Negative
1334	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	172	0.09	mg / cm ^2	Negative
1335	DOOR JAMB	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	172	0.04	mg / cm ^2	Negative
1336	DOOR JAMB	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	172	0.04	mg / cm ^2	Negative
1337	DOOR JAMB	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	172	0.12	mg / cm ^2	Negative
1338	TILE	CERAMIC	D	FAIR	WHITE	FLH	RH	FIRST	172	0	mg / cm ^2	Negative
1339	TILE	CERAMIC	D	FAIR	WHITE	FLH	RH	FIRST	172	0	mg / cm ^2	Negative
1340	TILE	CERAMIC	D	FAIR	BROWN	FLH	RH	FIRST	172	0.1	mg / cm ^2	Negative
1341	TILE	CERAMIC	D	FAIR	BROWN	FLH	RH	FIRST	172	0.1	mg / cm ^2	Negative
1342	TOILET	CERAMIC	D	FAIR	WHITE	FLH	RH	FIRST	172	0	mg / cm ^2	Negative
1343	TOILET	CERAMIC	D	FAIR	WHITE	FLH	RH	FIRST	172	0.01	mg / cm ^2	Negative
1344	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	172	0	mg / cm ^2	Negative
1346	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	172	0	mg / cm ^2	Negative

1347	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	172	0	mg / cm ^2	Negative
1348	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	172	0	mg / cm ^2	Negative
1349	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	171	0.11	mg / cm ^2	Negative
1351	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	171	-0.08	mg / cm ^2	Negative
1352	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	171	0.18	mg / cm ^2	Negative
1353	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	171	0	mg / cm ^2	Negative
1354	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	171	0	mg / cm ^2	Negative
1355	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	171	0	mg / cm ^2	Negative
1356	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	171	0	mg / cm ^2	Negative
1357	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	171	0.02	mg / cm ^2	Negative
1359	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	171	0.05	mg / cm ^2	Negative
1360	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	171	0.03	mg / cm ^2	Negative
1361	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	171	0.03	mg / cm ^2	Negative
1362	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	171	0.03	mg / cm ^2	Negative
1363	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	171	0	mg / cm ^2	Negative
1364	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	171	0.02	mg / cm ^2	Negative
1365	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	171	0.03	mg / cm ^2	Negative
1366	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	171	0.02	mg / cm ^2	Negative
1367	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	171	0.05	mg / cm ^2	Negative
1368	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	171	0.02	mg / cm ^2	Negative
1369	DOOR JAMB	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	171	0.01	mg / cm ^2	Negative
1370	DOOR JAMB	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	171	0.03	mg / cm ^2	Negative
1371	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	170	0.14	mg / cm ^2	Negative
1372	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	170	0.04	mg / cm ^2	Negative
1373	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	170	0.1	mg / cm ^2	Negative
1374	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	170	0	mg / cm ^2	Negative
1377	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	170	0	mg / cm ^2	Negative
1378	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	170	-0.12	mg / cm ^2	Negative
1379	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	170	0	mg / cm ^2	Negative
1381	WALL	DRYWALL	C	POOR	BLUE	FLH	RH	FIRST	170	0.09	mg / cm ^2	Negative
1382	WALL	DRYWALL	C	POOR	BLUE	FLH	RH	FIRST	170	0.13	mg / cm ^2	Negative
1383	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	170	0.18	mg / cm ^2	Negative
1384	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	170	0.1	mg / cm ^2	Negative
1386	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	170	0.09	mg / cm ^2	Negative

1387	TILE	CERAMIC	C	FAIR	WHITE	FLH	RH	FIRST	170	0	mg / cm ^2	Negative
1388	TILE	CERAMIC	C	FAIR	WHITE	FLH	RH	FIRST	170	0	mg / cm ^2	Negative
1389	TILE	CERAMIC	C	FAIR	WHITE	FLH	RH	FIRST	170	0.06	mg / cm ^2	Negative
1390	TILE	CERAMIC	C	FAIR	WHITE	FLH	RH	FIRST	170	0.01	mg / cm ^2	Negative
1391	TOILET	CERAMIC	C	FAIR	WHITE	FLH	RH	FIRST	170	0	mg / cm ^2	Negative
1392	TOILET	CERAMIC	C	FAIR	WHITE	FLH	RH	FIRST	170	0.01	mg / cm ^2	Negative
1393	RADIATOR	METAL	C	FAIR	GREEN	FLH	RH	FIRST	170	0.04	mg / cm ^2	Negative
1394	RADIATOR	METAL	C	FAIR	GREEN	FLH	RH	FIRST	170	0.05	mg / cm ^2	Negative
1395	WINDOW FRAME	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	170	0	mg / cm ^2	Negative
1396	WINDOW FRAME	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	170	0	mg / cm ^2	Negative
1397	WINDOW FRAME	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	170	0	mg / cm ^2	Negative
1398	WINDOW FRAME	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	170	0	mg / cm ^2	Negative
1399	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	170	0.02	mg / cm ^2	Negative
1400	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	170	0.03	mg / cm ^2	Negative
1401	DOOR JAMB	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	170	0.03	mg / cm ^2	Negative
1402	DOOR JAMB	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	170	0.07	mg / cm ^2	Negative
1403	DOOR JAMB	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	170	0.08	mg / cm ^2	Negative
1404	DOOR JAMB	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	170	0.06	mg / cm ^2	Negative
1405	DOOR JAMB	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	170	0.14	mg / cm ^2	Negative
1406	DOOR JAMB	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	170	0.04	mg / cm ^2	Negative
1407	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	170	0	mg / cm ^2	Negative
1408	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	170	0	mg / cm ^2	Negative
1409	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	170	0.01	mg / cm ^2	Negative
1410	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	169	0.03	mg / cm ^2	Negative
1411	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	169	0.02	mg / cm ^2	Negative
1412	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	169	-0.6	mg / cm ^2	Negative
1413	WALL	PLASTER	B	POOR	WHITE	FLH	RH	FIRST	169	0	mg / cm ^2	Negative
1414	WALL	PLASTER	B	POOR	WHITE	FLH	RH	FIRST	169	0	mg / cm ^2	Negative
1415	WALL	PLASTER	B	POOR	WHITE	FLH	RH	FIRST	169	0	mg / cm ^2	Negative
1416	WALL	PLASTER	B	POOR	WHITE	FLH	RH	FIRST	169	0.08	mg / cm ^2	Negative
1417	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	169	0.04	mg / cm ^2	Negative
1418	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	169	0.07	mg / cm ^2	Negative
1419	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	169	0.06	mg / cm ^2	Negative
1420	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	169	0.02	mg / cm ^2	Negative

1422	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	169	0.07	mg / cm ^2	Negative
1423	BATHTUB	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	169	7.1	mg / cm ^2	Positive
1424	BATHTUB	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	169	6.6	mg / cm ^2	Positive
1425	TILE	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	169	0.3	mg / cm ^2	Negative
1426	TILE	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	169	0.28	mg / cm ^2	Negative
1427	TOILET	CERAMIC	D	GOOD	WHITE	FLH	RH	FIRST	169	0.03	mg / cm ^2	Negative
1428	TOILET	CERAMIC	D	GOOD	WHITE	FLH	RH	FIRST	169	0.02	mg / cm ^2	Negative
1429	RADIATOR	METAL	B	GOOD	WHITE	FLH	RH	FIRST	169	0.08	mg / cm ^2	Negative
1430	RADIATOR	METAL	B	GOOD	WHITE	FLH	RH	FIRST	169	0.05	mg / cm ^2	Negative
1431	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	169	0.03	mg / cm ^2	Negative
1432	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	169	0.08	mg / cm ^2	Negative
1433	DOOR	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	169	0.03	mg / cm ^2	Negative
1434	DOOR JAMB	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	169	0.03	mg / cm ^2	Negative
1435	DOOR JAMB	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	169	0.03	mg / cm ^2	Negative
1436	DOOR JAMB	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	169	0.03	mg / cm ^2	Negative
1437	DOOR JAMB	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	169	0.03	mg / cm ^2	Negative
1438	DOOR JAMB	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	169	0.05	mg / cm ^2	Negative
1439	DOOR JAMB	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	169	0.03	mg / cm ^2	Negative
1440	DOOR	WOOD	D	GOOD	STAIN	FLH	RH	FIRST	169	0.01	mg / cm ^2	Negative
1441	DOOR	WOOD	D	GOOD	STAIN	FLH	RH	FIRST	169	0.01	mg / cm ^2	Negative
1442	DOOR	WOOD	D	GOOD	STAIN	FLH	RH	FIRST	169	0	mg / cm ^2	Negative
1443	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	169	0	mg / cm ^2	Negative
1444	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	169	0	mg / cm ^2	Negative
1445	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	169	0	mg / cm ^2	Negative
1446	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	168	0	mg / cm ^2	Negative
1447	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	168	0	mg / cm ^2	Negative
1448	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	168	0	mg / cm ^2	Negative
1449	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	168	0	mg / cm ^2	Negative
1450	WALL	PLASTER	B	POOR	WHITE	FLH	RH	FIRST	168	-0.21	mg / cm ^2	Negative
1451	WALL	PLASTER	B	POOR	WHITE	FLH	RH	FIRST	168	0	mg / cm ^2	Negative
1452	WALL	PLASTER	B	POOR	WHITE	FLH	RH	FIRST	168	0.05	mg / cm ^2	Negative
1453	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	168	0.16	mg / cm ^2	Negative
1454	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	168	0.09	mg / cm ^2	Negative
1455	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	168	0.19	mg / cm ^2	Negative

1456	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	168	0	mg / cm ^2	Negative
1457	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	168	0	mg / cm ^2	Negative
1458	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	168	0	mg / cm ^2	Negative
1459	RADIATOR	METAL	B	GOOD	WHITE	FLH	RH	FIRST	168	0.07	mg / cm ^2	Negative
1460	RADIATOR	METAL	B	GOOD	WHITE	FLH	RH	FIRST	168	0.06	mg / cm ^2	Negative
1461	RADIATOR	METAL	B	GOOD	YELLOW	FLH	RH	FIRST	168	0.06	mg / cm ^2	Negative
1462	RADIATOR	METAL	B	GOOD	YELLOW	FLH	RH	FIRST	168	0.06	mg / cm ^2	Negative
1463	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	168	0	mg / cm ^2	Negative
1465	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	168	0	mg / cm ^2	Negative
1466	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	168	0	mg / cm ^2	Negative
1467	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	168	0	mg / cm ^2	Negative
1468	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	168	0	mg / cm ^2	Negative
1469	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	168	0	mg / cm ^2	Negative
1470	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	168	0	mg / cm ^2	Negative
1471	DOOR JAMB	METAL	D	FAIR	WHITE	FLH	RH	FIRST	168	0	mg / cm ^2	Negative
1472	DOOR JAMB	METAL	D	FAIR	WHITE	FLH	RH	FIRST	168	-0.4	mg / cm ^2	Negative
1473	DOOR JAMB	METAL	D	FAIR	WHITE	FLH	RH	FIRST	168	0	mg / cm ^2	Negative
1474	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1475	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1476	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1477	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1478	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1479	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1480	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1481	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1482	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1483	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1484	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1485	CEILING	DRYWALL	UPPER	POOR	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1486	CEILING	DRYWALL	UPPER	POOR	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1487	LIGHT	METAL	UPPER	FAIR	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1488	FAN	METAL	UPPER	FAIR	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1489	FAN	METAL	UPPER	FAIR	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1490	TILE	CERAMIC	B	GOOD	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative

1491	TILE	CERAMIC	B	GOOD	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1492	TILE	CERAMIC	C	GOOD	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1493	TILE	CERAMIC	C	GOOD	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1494	SHOWER BASE	CERAMIC	C	GOOD	WHITE	FLH	RH	FIRST	167	7.1	mg / cm ^2	Positive
1495	SHOWER BASE	CERAMIC	C	GOOD	WHITE	FLH	RH	FIRST	167	5.7	mg / cm ^2	Positive
1496	DOOR JAMB	METAL	D	GOOD	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1497	DOOR JAMB	METAL	D	GOOD	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1498	DOOR JAMB	METAL	D	GOOD	WHITE	FLH	RH	FIRST	167	0	mg / cm ^2	Negative
1499	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	166	0.01	mg / cm ^2	Negative
1500	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	166	0.05	mg / cm ^2	Negative
1501	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	166	-0.38	mg / cm ^2	Negative
1502	WALL	PLASTER	B	POOR	WHITE	FLH	RH	FIRST	166	0.03	mg / cm ^2	Negative
1503	WALL	PLASTER	B	POOR	WHITE	FLH	RH	FIRST	166	0	mg / cm ^2	Negative
1505	WALL	PLASTER	B	POOR	WHITE	FLH	RH	FIRST	166	0.06	mg / cm ^2	Negative
1506	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	166	0	mg / cm ^2	Negative
1507	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	166	0	mg / cm ^2	Negative
1508	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	166	0.01	mg / cm ^2	Negative
1509	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	166	0.02	mg / cm ^2	Negative
1511	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	166	0.03	mg / cm ^2	Negative
1512	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	166	0.03	mg / cm ^2	Negative
1514	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	166	0.11	mg / cm ^2	Negative
1515	TILE	CERAMIC	D	GOOD	WHITE	FLH	RH	FIRST	166	0	mg / cm ^2	Negative
1516	TILE	CERAMIC	D	GOOD	WHITE	FLH	RH	FIRST	166	0	mg / cm ^2	Negative
1517	TILE	CERAMIC	D	GOOD	BROWN	FLH	RH	FIRST	166	0.03	mg / cm ^2	Negative
1518	TILE	CERAMIC	D	GOOD	BROWN	FLH	RH	FIRST	166	0.05	mg / cm ^2	Negative
1519	TOILET	CERAMIC	C	GOOD	WHITE	FLH	RH	FIRST	166	0	mg / cm ^2	Negative
1520	TOILET	CERAMIC	C	GOOD	WHITE	FLH	RH	FIRST	166	0	mg / cm ^2	Negative
1521	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	166	0	mg / cm ^2	Negative
1522	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	166	0	mg / cm ^2	Negative
1523	LIGHT	METAL	UPPER	GOOD	WHITE	FLH	RH	FIRST	166	0	mg / cm ^2	Negative
1524	VENT	METAL	UPPER	GOOD	WHITE	FLH	RH	FIRST	166	0	mg / cm ^2	Negative
1525	RADIATOR	METAL	B	GOOD	TAN	FLH	RH	FIRST	166	0.04	mg / cm ^2	Negative
1526	RADIATOR	METAL	B	GOOD	TAN	FLH	RH	FIRST	166	0.04	mg / cm ^2	Negative
1527	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	166	0	mg / cm ^2	Negative

1528	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	166	0	mg / cm ^2	Negative
1529	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	166	0.01	mg / cm ^2	Negative
1530	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	166	0	mg / cm ^2	Negative
1531	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	166	0	mg / cm ^2	Negative
1532	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	166	0	mg / cm ^2	Negative
1533	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	166	0	mg / cm ^2	Negative
1534	DOOR JAMB	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	166	0.09	mg / cm ^2	Negative
1536	DOOR JAMB	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	166	0	mg / cm ^2	Negative
1537	DOOR JAMB	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	166	0.03	mg / cm ^2	Negative
1538	WALL	DRYWALL	A	FAIR	WHITE	FLH	RH	FIRST	165	-0.35	mg / cm ^2	Negative
1539	WALL	DRYWALL	A	FAIR	WHITE	FLH	RH	FIRST	165	0	mg / cm ^2	Negative
1540	WALL	DRYWALL	A	FAIR	WHITE	FLH	RH	FIRST	165	0.02	mg / cm ^2	Negative
1541	WALL	DRYWALL	B	FAIR	WHITE	FLH	RH	FIRST	165	0	mg / cm ^2	Negative
1543	WALL	DRYWALL	B	FAIR	WHITE	FLH	RH	FIRST	165	0	mg / cm ^2	Negative
1544	WALL	DRYWALL	B	FAIR	WHITE	FLH	RH	FIRST	165	0.03	mg / cm ^2	Negative
1545	WALL	DRYWALL	C	FAIR	WHITE	FLH	RH	FIRST	165	0.06	mg / cm ^2	Negative
1546	WALL	DRYWALL	C	FAIR	WHITE	FLH	RH	FIRST	165	0.05	mg / cm ^2	Negative
1547	WALL	DRYWALL	C	FAIR	WHITE	FLH	RH	FIRST	165	-0.13	mg / cm ^2	Negative
1548	WALL	DRYWALL	D	FAIR	WHITE	FLH	RH	FIRST	165	0	mg / cm ^2	Negative
1549	WALL	DRYWALL	D	FAIR	WHITE	FLH	RH	FIRST	165	0	mg / cm ^2	Negative
1550	WALL	DRYWALL	D	FAIR	WHITE	FLH	RH	FIRST	165	0	mg / cm ^2	Negative
1551	TILE	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	165	0	mg / cm ^2	Negative
1552	TILE	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	165	0	mg / cm ^2	Negative
1553	TILE	CERAMIC	A	GOOD	BROWN	FLH	RH	FIRST	165	0.07	mg / cm ^2	Negative
1554	TILE	CERAMIC	A	GOOD	BROWN	FLH	RH	FIRST	165	0.03	mg / cm ^2	Negative
1555	TOILET	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	165	0	mg / cm ^2	Negative
1556	TOILET	CERAMIC	A	GOOD	WHITE	FLH	RH	FIRST	165	0.01	mg / cm ^2	Negative
1557	DOOR	WOOD	A	GOOD	STAIN	FLH	RH	FIRST	165	0	mg / cm ^2	Negative
1558	DOOR	WOOD	A	GOOD	STAIN	FLH	RH	FIRST	165	0	mg / cm ^2	Negative
1559	DOOR	WOOD	A	GOOD	STAIN	FLH	RH	FIRST	165	0.01	mg / cm ^2	Negative
1560	DOOR JAMB	METAL	A	GOOD	WHITE	FLH	RH	FIRST	165	0	mg / cm ^2	Negative
1561	DOOR JAMB	METAL	A	GOOD	WHITE	FLH	RH	FIRST	165	0	mg / cm ^2	Negative
1562	DOOR JAMB	METAL	A	GOOD	WHITE	FLH	RH	FIRST	165	0	mg / cm ^2	Negative
1563	DOOR JAMB	METAL	D	GOOD	WHITE	FLH	RH	FIRST	165	0	mg / cm ^2	Negative

1564	DOOR JAMB	METAL	D	GOOD	WHITE	FLH	RH	FIRST	165	0	mg / cm ^2	Negative
1565	DOOR JAMB	METAL	D	GOOD	WHITE	FLH	RH	FIRST	165	0	mg / cm ^2	Negative
1566			CALIBRATE			FLH	RH			0	mg / cm ^2	Negative
1568			CALIBRATE			FLH	RH			1.1	mg / cm ^2	Positive
1569			CALIBRATE			FLH	RH			1.5	mg / cm ^2	Positive
1570			CALIBRATE			FLH	RH			3.1	mg / cm ^2	Positive

Reading No	Component	Substrate	Side	Condition	Color	Site	Inspector	Floor	Room	Results	PbC	Units
1571			CALIBRATE			FLH	RH			Negative	0	mg / cm ^2
1573			CALIBRATE			FLH	RH			Negative	0.9	mg / cm ^2
1574			CALIBRATE			FLH	RH			Positive	2.5	mg / cm ^2
1575			CALIBRATE			FLH	RH			Positive	3.1	mg / cm ^2
1576	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1577	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1578	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1579	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1580	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1581	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1582	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1583	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1584	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1585	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1586	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1587	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1588	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1589	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1590	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1591	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1592	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1594	DOOR JAMB	METAL	B	GOOD	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1595	DOOR JAMB	METAL	B	GOOD	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1596	DOOR JAMB	METAL	B	GOOD	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1598	DOOR JAMB	METAL	A	GOOD	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1600	DOOR JAMB	METAL	A	GOOD	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1602	DOOR JAMB	METAL	A	GOOD	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1603	TOILET	CERAMIC	B	GOOD	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1604	TOILET	CERAMIC	B	GOOD	WHITE	FLH	RH	FIRST	186	Negative	0.02	mg / cm ^2
1605	TILE	CERAMIC	B	GOOD	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1606	TILE	CERAMIC	B	GOOD	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1607	TILE	CERAMIC	B	GOOD	BLUE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1608	TILE	CERAMIC	B	GOOD	BLUE	FLH	RH	FIRST	186	Negative	0.02	mg / cm ^2

1609	CEILING	DRYWALL	UPPER	GOOD	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1610	CEILING	DRYWALL	UPPER	GOOD	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1611	LIGHT	METAL	UPPER	GOOD	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1613	VENT	METAL	UPPER	GOOD	WHITE	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1614	WINDOW FRAME	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1615	WINDOW FRAME	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1616	WINDOW FRAME	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	186	Negative	0	mg / cm ^2
1617	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1618	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1619	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1620	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1621	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1622	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1623	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1624	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1625	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1626	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1627	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1628	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1629	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1630	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1631	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1632	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1633	TILE	CERAMIC	D	GOOD	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1634	TILE	CERAMIC	D	GOOD	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1635	TILE	CERAMIC	D	GOOD	BLUE	FLH	RH	FIRST	187	Negative	0.02	mg / cm ^2
1636	TILE	CERAMIC	D	GOOD	BLUE	FLH	RH	FIRST	187	Negative	0.01	mg / cm ^2
1637	TOILET	CERAMIC	D	GOOD	WHITE	FLH	RH	FIRST	187	Negative	0.01	mg / cm ^2
1638	TOILET	CERAMIC	D	GOOD	WHITE	FLH	RH	FIRST	187	Negative	0.01	mg / cm ^2
1639	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1640	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1641	LIGHT	METAL	UPPER	GOOD	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1642	VENT	METAL	UPPER	GOOD	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1643	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	187	Negative	0	mg / cm ^2

1644	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1645	DOOR	WOOD	D	FAIR	STAIN	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1646	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1647	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1648	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1649	DOOR JAMB	METAL	A	GOOD	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1650	DOOR JAMB	METAL	A	GOOD	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1651	DOOR JAMB	METAL	A	GOOD	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1652	DOOR JAMB	METAL	D	GOOD	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1653	DOOR JAMB	METAL	D	GOOD	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1654	DOOR JAMB	METAL	D	GOOD	WHITE	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1655	WINDOW FRAME	WOOD	C	GOOD	STAIN	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1656	WINDOW FRAME	WOOD	C	GOOD	STAIN	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1657	WINDOW FRAME	WOOD	C	GOOD	STAIN	FLH	RH	FIRST	187	Negative	0	mg / cm ^2
1659	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1660	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1663	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1664	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1665	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1666	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1667	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1668	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1669	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1670	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1671	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1672	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1673	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1674	TILE	CERAMIC	B	GOOD	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1675	TILE	CERAMIC	B	GOOD	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1676	TILE	CERAMIC	B	GOOD	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1677	TILE	CERAMIC	B	GOOD	BLUE	FLH	RH	FIRST	185	Negative	0.03	mg / cm ^2
1678	TILE	CERAMIC	B	GOOD	BLUE	FLH	RH	FIRST	185	Negative	0.03	mg / cm ^2
1679	TILE	CERAMIC	B	GOOD	BLUE	FLH	RH	FIRST	185	Negative	0.01	mg / cm ^2
1681	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2

1683	LIGHT	METAL	UPPER	GOOD	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1684	VENT	METAL	UPPER	GOOD	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1685	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1686	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1687	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1688	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1689	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1690	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1691	DOOR JAMB	METAL	B	FAIR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1692	DOOR JAMB	METAL	B	FAIR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1693	DOOR JAMB	METAL	B	FAIR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1694	DOOR JAMB	METAL	A	FAIR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1695	DOOR JAMB	METAL	A	FAIR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1697	DOOR JAMB	METAL	A	FAIR	WHITE	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1698	WINDOW FRAME	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1699	WINDOW FRAME	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1700	WINDOW FRAME	WOOD	C	FAIR	STAIN	FLH	RH	FIRST	185	Negative	0	mg / cm ^2
1701	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	188	Negative	0	mg / cm ^2
1702	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	188	Negative	0	mg / cm ^2
1703	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	188	Negative	0	mg / cm ^2
1704	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	188	Negative	0	mg / cm ^2
1705	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	188	Negative	0	mg / cm ^2
1706	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	188	Negative	0	mg / cm ^2
1707	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	188	Negative	0	mg / cm ^2
1708	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	188	Negative	0	mg / cm ^2
1709	WALL	DRYWALL	A	POOR	BLUE	FLH	RH	FIRST	188	Negative	0	mg / cm ^2
1710	WALL	DRYWALL	A	POOR	BLUE	FLH	RH	FIRST	188	Negative	0	mg / cm ^2
1712	WALL	DRYWALL	A	POOR	BLUE	FLH	RH	FIRST	188	Negative	0	mg / cm ^2
1713	WALL	DRYWALL	C	POOR	BLUE	FLH	RH	FIRST	188	Negative	0	mg / cm ^2
1714	WALL	DRYWALL	C	POOR	BLUE	FLH	RH	FIRST	188	Negative	0	mg / cm ^2
1715	WALL	DRYWALL	C	POOR	BLUE	FLH	RH	FIRST	188	Negative	0	mg / cm ^2
1716	CEILING	DRYWALL	UPPER	POOR	WHITE	FLH	RH	FIRST	188	Negative	0	mg / cm ^2
1717	CEILING	DRYWALL	UPPER	POOR	WHITE	FLH	RH	FIRST	188	Negative	0	mg / cm ^2
1719	CEILING	DRYWALL	UPPER	POOR	WHITE	FLH	RH	FIRST	188	Negative	0	mg / cm ^2

1720	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	188	Negative	0	mg / cm ^2
1721	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	189	Negative	0	mg / cm ^2
1722	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	189	Negative	0	mg / cm ^2
1723	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	189	Negative	0.06	mg / cm ^2
1724	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	189	Negative	0.03	mg / cm ^2
1725	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	189	Negative	0	mg / cm ^2
1726	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	189	Negative	0	mg / cm ^2
1727	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	189	Negative	0	mg / cm ^2
1728	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	189	Negative	0	mg / cm ^2
1729	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	189	Negative	0	mg / cm ^2
1730	CEILING	DRYWALL	UPPER	POOR	WHITE	FLH	RH	FIRST	189	Negative	0	mg / cm ^2
1731	CEILING	DRYWALL	UPPER	POOR	WHITE	FLH	RH	FIRST	189	Negative	0	mg / cm ^2
1732	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	189	Negative	0	mg / cm ^2
1733	DOOR	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	189	Negative	0	mg / cm ^2
1735	DOOR JAMB	METAL	A	FAIR	WHITE	FLH	RH	FIRST	189	Negative	0.01	mg / cm ^2
1736	DOOR JAMB	METAL	A	FAIR	WHITE	FLH	RH	FIRST	189	Negative	0	mg / cm ^2
1737	DOOR JAMB	METAL	A	FAIR	WHITE	FLH	RH	FIRST	189	Negative	0	mg / cm ^2
1739	WALL	PLASTER	A	POOR	WHITE	FLH	RH	FIRST	122	Negative	0.19	mg / cm ^2
1740	WALL	PLASTER	A	POOR	WHITE	FLH	RH	FIRST	122	Negative	0.2	mg / cm ^2
1741	WALL	PLASTER	A	POOR	WHITE	FLH	RH	FIRST	122	Negative	0.15	mg / cm ^2
1742	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	122	Negative	0.2	mg / cm ^2
1745	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	122	Negative	0.1	mg / cm ^2
1746	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	122	Negative	0.13	mg / cm ^2
1747	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	122	Negative	0.22	mg / cm ^2
1748	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	122	Negative	0.19	mg / cm ^2
1749	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	122	Negative	-0.29	mg / cm ^2
1750	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	122	Negative	0.28	mg / cm ^2
1752	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	122	Negative	0.06	mg / cm ^2
1753	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	122	Negative	0.19	mg / cm ^2
1754	CEILING	DRYWALL	UPPER	POOR	WHITE	FLH	RH	FIRST	122	Negative	0.11	mg / cm ^2
1755	CEILING	DRYWALL	UPPER	POOR	WHITE	FLH	RH	FIRST	122	Negative	0.1	mg / cm ^2
1756	CEILING	DRYWALL	UPPER	POOR	WHITE	FLH	RH	FIRST	122	Negative	-0.08	mg / cm ^2
1757	WINDOW SILL	METAL	D	GOOD	WHITE	FLH	RH	FIRST	122	Negative	0.4	mg / cm ^2
1758	WINDOW SILL	METAL	D	GOOD	WHITE	FLH	RH	FIRST	122	Negative	0.24	mg / cm ^2

1759	WINDOW SILL	METAL	D	GOOD	WHITE	FLH	RH	FIRST	122	Negative	0.21	mg / cm ^2
1760	ACCESS HATCH	METAL	C	GOOD	WHITE	FLH	RH	FIRST	122	Negative	0	mg / cm ^2
1761	ACCESS HATCH	METAL	C	GOOD	WHITE	FLH	RH	FIRST	122	Negative	0	mg / cm ^2
1762	DOOR JAMB	WOOD	C	GOOD	STAIN	FLH	RH	FIRST	122	Negative	0.01	mg / cm ^2
1763	DOOR JAMB	WOOD	C	GOOD	STAIN	FLH	RH	FIRST	122	Negative	0.02	mg / cm ^2
1764	DOOR JAMB	WOOD	C	GOOD	STAIN	FLH	RH	FIRST	122	Negative	0.04	mg / cm ^2
1765	RADIATOR HOUSING	METAL	A	GOOD	WHITE	FLH	RH	FIRST	122	Negative	0.04	mg / cm ^2
1766	RADIATOR HOUSING	METAL	A	GOOD	WHITE	FLH	RH	FIRST	122	Negative	0.05	mg / cm ^2
1768	RADIATOR HOUSING	METAL	A	GOOD	WHITE	FLH	RH	FIRST	122	Negative	0.02	mg / cm ^2
1769	FLOOR	CONCRETE	LOWER	FAIR	BLACK	FLH	RH	FIRST	122	Negative	0	mg / cm ^2
1770	FLOOR	CONCRETE	LOWER	FAIR	BLACK	FLH	RH	FIRST	122	Negative	0	mg / cm ^2
1772			CALIBRATE			FLH	RH			Negative	0	mg / cm ^2
1773			CALIBRATE			FLH	RH			Positive	1.1	mg / cm ^2
1774			CALIBRATE			FLH	RH			Positive	1.4	mg / cm ^2
1775			CALIBRATE			FLH	RH			Positive	3.1	mg / cm ^2
1776	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	122A	Negative	0.08	mg / cm ^2
1777	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	122A	Negative	0.1	mg / cm ^2
1778	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	122A	Negative	0.06	mg / cm ^2
1779	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	122A	Negative	0.03	mg / cm ^2
1780	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	122A	Negative	0.2	mg / cm ^2
1782	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	122A	Negative	0.14	mg / cm ^2
1783	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	122A	Negative	0.06	mg / cm ^2
1784	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	122A	Negative	0.13	mg / cm ^2
1785	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	122A	Negative	0.1	mg / cm ^2
1787	WINDOW SILL	METAL	D	GOOD	WHITE	FLH	RH	FIRST	122A	Negative	0.17	mg / cm ^2
1788	WINDOW SILL	METAL	D	GOOD	WHITE	FLH	RH	FIRST	122A	Negative	0.3	mg / cm ^2
1789	WINDOW SILL	METAL	D	GOOD	WHITE	FLH	RH	FIRST	122A	Negative	0.13	mg / cm ^2
1790	WINDOW	METAL	D	GOOD	BROWN	FLH	RH	FIRST	122A	Negative	0	mg / cm ^2
1792	WINDOW	METAL	D	GOOD	BROWN	FLH	RH	FIRST	122A	Negative	0	mg / cm ^2
1793	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	122A	Negative	0.12	mg / cm ^2
1794	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	122A	Negative	0.24	mg / cm ^2
1796	FAN	METAL	UPPER	GOOD	WHITE	FLH	RH	FIRST	122A	Negative	0	mg / cm ^2
1797	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	123	Negative	0.16	mg / cm ^2
1798	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	123	Negative	0.3	mg / cm ^2

1799	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	123	Negative	0.15	mg / cm ^2
1800	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	123	Negative	0.24	mg / cm ^2
1801	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	123	Negative	0.16	mg / cm ^2
1802	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	123	Negative	0.18	mg / cm ^2
1804	WALL	PLASTER	C	POOR	WHITE	FLH	RH	FIRST	123	Negative	0.21	mg / cm ^2
1805	WALL	PLASTER	C	POOR	WHITE	FLH	RH	FIRST	123	Negative	0.3	mg / cm ^2
1806	WALL	PLASTER	C	POOR	WHITE	FLH	RH	FIRST	123	Negative	0.14	mg / cm ^2
1807	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	123	Negative	0.13	mg / cm ^2
1808	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	123	Negative	0.25	mg / cm ^2
1809	WALL	PLASTER	D	POOR	WHITE	FLH	RH	FIRST	123	Negative	0.22	mg / cm ^2
1810	WINDOW SILL	METAL	D	FAIR	WHITE	FLH	RH	FIRST	123	Negative	0.5	mg / cm ^2
1811	WINDOW SILL	METAL	D	FAIR	WHITE	FLH	RH	FIRST	123	Negative	0.29	mg / cm ^2
1812	WINDOW SILL	METAL	D	FAIR	WHITE	FLH	RH	FIRST	123	Negative	0.4	mg / cm ^2
1813	WINDOW	METAL	D	FAIR	BROWN	FLH	RH	FIRST	123	Negative	0	mg / cm ^2
1814	WINDOW	METAL	D	FAIR	BROWN	FLH	RH	FIRST	123	Negative	0	mg / cm ^2
1815	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	123	Negative	0.1	mg / cm ^2
1816	CEILING	DRYWALL	UPPER	FAIR	WHITE	FLH	RH	FIRST	123	Negative	0.08	mg / cm ^2
1817	RADIATOR HOUSING	METAL	C	FAIR	GREEN	FLH	RH	FIRST	123	Negative	0.03	mg / cm ^2
1818	RADIATOR HOUSING	METAL	C	FAIR	GREEN	FLH	RH	FIRST	123	Negative	0.02	mg / cm ^2
1820	RADIATOR HOUSING	METAL	C	FAIR	GREEN	FLH	RH	FIRST	123	Negative	0.04	mg / cm ^2
1821	RADIATOR HOUSING	METAL	C	FAIR	GREEN	FLH	RH	FIRST	123	Negative	0.04	mg / cm ^2
1822	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	123	Negative	0.05	mg / cm ^2
1823	DOOR JAMB	WOOD	A	FAIR	STAIN	FLH	RH	FIRST	123	Negative	0.05	mg / cm ^2
1825			CALIBRATE			FLH	RH			Negative	0	mg / cm ^2
1826			CALIBRATE			FLH	RH			Positive	1.1	mg / cm ^2
1827			CALIBRATE			FLH	RH			Positive	1.6	mg / cm ^2
1828			CALIBRATE			FLH	RH			Positive	5.3	mg / cm ^2
1829			CALIBRATE			FLH	RH			Positive	3.3	mg / cm ^2
1830	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	124	Negative	0.02	mg / cm ^2
1831	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	124	Negative	0.01	mg / cm ^2
1832	WALL	DRYWALL	A	POOR	WHITE	FLH	RH	FIRST	124	Negative	0.08	mg / cm ^2
1833	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	124	Negative	0.07	mg / cm ^2
1836	WALL	DRYWALL	B	POOR	WHITE	FLH	RH	FIRST	124	Negative	0	mg / cm ^2
1837	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	124	Negative	0.02	mg / cm ^2

1838	WALL	DRYWALL	C	POOR	WHITE	FLH	RH	FIRST	124	Negative	-0.21	mg / cm ^2
1839	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	124	Negative	0.1	mg / cm ^2
1840	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	124	Negative	0	mg / cm ^2
1841	WALL	DRYWALL	D	POOR	WHITE	FLH	RH	FIRST	124	Negative	0.03	mg / cm ^2
1842	CEILING	DRYWALL	UPPER	POOR	WHITE	FLH	RH	FIRST	124	Negative	0.07	mg / cm ^2
1843	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	124	Negative	0.04	mg / cm ^2
1844	DOOR	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	124	Negative	0.02	mg / cm ^2
1845	DOOR WINDOW FRAME	METAL	B	FAIR	BROWN	FLH	RH	FIRST	124	Negative	0	mg / cm ^2
1846	DOOR JAMB	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	124	Negative	0.02	mg / cm ^2
1847	WINDOW	METAL	C	GOOD	BROWN	FLH	RH	FIRST	124	Negative	0	mg / cm ^2
1848	WINDOW SILL	METAL	C	GOOD	WHITE	FLH	RH	FIRST	124	Negative	0.16	mg / cm ^2
1849	WINDOW FRAME	WOOD	B	FAIR	STAIN	FLH	RH	FIRST	124	Negative	0.04	mg / cm ^2
1850	ACCESS DOOR	METAL	B	GOOD	WHITE	FLH	RH	FIRST	124	Negative	0	mg / cm ^2
1851	WALL	PLASTER	A	POOR	WHITE	FLH	RH	FIRST	121	Negative	0.05	mg / cm ^2

Reading No	Component	Substrate	Side	Condition	Color	Location	Inspector	Floor	Room	PbC	Units	Results
1852			CALIBRATE			FLH	RH			0	mg / cm ^2	Negative
1853			CALIBRATE			FLH	RH			1.1	mg / cm ^2	Positive
1854			CALIBRATE			FLH	RH			1.5	mg / cm ^2	Positive
1855			CALIBRATE			FLH	RH			3.3	mg / cm ^2	Positive
1856	Wall	Wood	A	POOR	White	FLH	RH	First	121	0.21	mg / cm ^2	Negative
1857	Wall	Wood	A	POOR	White	FLH	RH	First	121	0.1	mg / cm ^2	Negative
1858	Wall	Drywall	B	POOR	White	FLH	RH	First	121	0.11	mg / cm ^2	Negative
1859	Wall	Plaster	B	POOR	White	FLH	RH	First	121	0.3	mg / cm ^2	Negative
1860	Wall	Drywall	C	POOR	White	FLH	RH	First	121	0.1	mg / cm ^2	Negative
1861	Wall	Drywall	D	POOR	White	FLH	RH	First	121	0.09	mg / cm ^2	Negative
1862	Window Sill	Metal	A	GOOD	White	FLH	RH	First	121	0.11	mg / cm ^2	Negative
1863	Window	Metal	A	GOOD	Brown	FLH	RH	First	121	0	mg / cm ^2	Negative
1864	Ceiling	Drywall	UPPER	POOR	White	FLH	RH	First	121	0.08	mg / cm ^2	Negative
1865	Door Jamb	Wood	C	GOOD	STAIN	FLH	RH	First	121	0.02	mg / cm ^2	Negative
1866	VENT	Metal	UPPER	GOOD	Grey	FLH	RH	First	121	0.14	mg / cm ^2	Negative
1867	Wall	Drywall	A	POOR	White	FLH	RH	First	120a	0.09	mg / cm ^2	Negative
1869	Wall	Drywall	B	POOR	White	FLH	RH	First	120a	0.17	mg / cm ^2	Negative
1870	Wall	Drywall	C	POOR	White	FLH	RH	First	120a	0.11	mg / cm ^2	Negative
1871	Wall	Drywall	D	POOR	White	FLH	RH	First	120a	0.5	mg / cm ^2	Negative
1872	Ceiling	Drywall	UPPER	POOR	White	FLH	RH	First	120a	0.02	mg / cm ^2	Negative
1873	Attic Entry Hatch	Metal	UPPER	GOOD	White	FLH	RH	First	120a	1.5	mg / cm ^2	Positive
1874	Door Jamb	Wood	B	GOOD	STAIN	FLH	RH	First	120a	0.05	mg / cm ^2	Negative
1875	Door STOP	Wood	B	GOOD	STAIN	FLH	RH	First	120a	0.06	mg / cm ^2	Negative
1876	Wall	Plaster	A	POOR	White	FLH	RH	First	120B	0.08	mg / cm ^2	Negative
1877	Wall	Plaster	B	POOR	White	FLH	RH	First	120B	0.17	mg / cm ^2	Negative
1878	Wall	Plaster	C	POOR	White	FLH	RH	First	120B	0.07	mg / cm ^2	Negative
1879	Wall	Drywall	D	POOR	White	FLH	RH	First	120B	0.14	mg / cm ^2	Negative
1880	Ceiling	Drywall	UPPER	POOR	White	FLH	RH	First	120B	0.07	mg / cm ^2	Negative
1881	Door Casing	Wood	B	GOOD	STAIN	FLH	RH	First	120B	0.03	mg / cm ^2	Negative
1882	Wall	Drywall	A	GOOD	White	FLH	RH	First	120C	0	mg / cm ^2	Negative
1883	Wall	Drywall	B	GOOD	White	FLH	RH	First	120C	0	mg / cm ^2	Negative
1884	Wall	Plaster	C	GOOD	White	FLH	RH	First	120C	0.06	mg / cm ^2	Negative
1885	Wall	Plaster	C	GOOD	White	FLH	RH	First	120C	0.06	mg / cm ^2	Negative

1886	Wall	Plaster	D	GOOD	White	FLH	RH	First	120C	0.05	mg / cm ^2	Negative
1887	Ceiling	Plaster	UPPER	GOOD	White	FLH	RH	First	120C	0.1	mg / cm ^2	Negative
1888	Ceiling	Plaster	UPPER	GOOD	White	FLH	RH	First	120C	0.05	mg / cm ^2	Negative
1889	Door Jamb	Metal	B	GOOD	Beige	FLH	RH	First	120C	0	mg / cm ^2	Negative
1890	RADIATOR HOUSING	Metal	A	GOOD	Beige	FLH	RH	First	120C	0.02	mg / cm ^2	Negative
1891	Wall	Wood	A	POOR	White	FLH	RH	First	125	0.11	mg / cm ^2	Negative
1892	Wall	Wood	B	POOR	White	FLH	RH	First	125	0	mg / cm ^2	Negative
1893	Wall	Wood	C	POOR	White	FLH	RH	First	125	0.18	mg / cm ^2	Negative
1894	Wall	Wood	D	POOR	White	FLH	RH	First	125	0.06	mg / cm ^2	Negative
1895	Door Jamb	Metal	B	GOOD	White	FLH	RH	First	125	0	mg / cm ^2	Negative
1896	RADIATOR HOUSING	Metal	C	GOOD	White	FLH	RH	First	125	0.02	mg / cm ^2	Negative
1898	Ceiling	Drywall	UPPER	POOR	White	FLH	RH	First	125	0.01	mg / cm ^2	Negative
1899	Ceiling	Drywall	UPPER	POOR	White	FLH	RH	First	125	0	mg / cm ^2	Negative
1900	Wall	Drywall	A	POOR	White	FLH	RH	First	126	0.4	mg / cm ^2	Negative
1901	Wall	Drywall	C	POOR	White	FLH	RH	First	126	0.5	mg / cm ^2	Negative
1902	Wall	Drywall	D	POOR	White	FLH	RH	First	126	0	mg / cm ^2	Negative
1903	Door Jamb	Metal	D	GOOD	Beige	FLH	RH	First	126	0	mg / cm ^2	Negative
1904	Wall	Drywall	A	POOR	White	FLH	RH	First	127	0.15	mg / cm ^2	Negative
1905	Wall	Drywall	B	POOR	White	FLH	RH	First	127	0.15	mg / cm ^2	Negative
1906	Wall	Drywall	B	POOR	White	FLH	RH	First	127	0	mg / cm ^2	Negative
1907	Wall	Drywall	B	POOR	White	FLH	RH	First	127	0	mg / cm ^2	Negative
1908	Wall	Plaster	C	POOR	White	FLH	RH	First	127	0.01	mg / cm ^2	Negative
1909	Wall	Drywall	C	POOR	White	FLH	RH	First	127	0.01	mg / cm ^2	Negative
1910	Wall	Drywall	D	POOR	White	FLH	RH	First	127	0	mg / cm ^2	Negative
1911	Door Jamb	Wood	A	GOOD	STAIN	FLH	RH	First	127	0.04	mg / cm ^2	Negative
1912	Door Jamb	Wood	A	GOOD	STAIN	FLH	RH	First	127	0.05	mg / cm ^2	Negative
1913	Wall	Drywall	A	POOR	Brown	FLH	RH	First	127	0	mg / cm ^2	Negative
1915	Wall	Drywall	B	POOR	Brown	FLH	RH	First	127	0.5	mg / cm ^2	Negative
1916	Wall	Plaster	C	POOR	Blue	FLH	RH	First	127	0.4	mg / cm ^2	Negative
1917	Wall	Drywall	D	POOR	White	FLH	RH	First	127	0	mg / cm ^2	Negative
1918	Door Jamb	Wood	A	GOOD	STAIN	FLH	RH	First	127	0.06	mg / cm ^2	Negative
1919	Door Jamb	Wood	A	GOOD	STAIN	FLH	RH	First	127	0.04	mg / cm ^2	Negative
1921	Wall	Drywall	A	POOR	White	FLH	RH	First	127b	0.06	mg / cm ^2	Negative
1922	Wall	Drywall	B	POOR	White	FLH	RH	First	127b	0.26	mg / cm ^2	Negative

1924	Wall	Drywall	C	POOR	White	FLH	RH	First	127b	0.05	mg / cm ^2	Negative
1925	Wall	Drywall	D	POOR	White	FLH	RH	First	127b	0.6	mg / cm ^2	Negative
1926	Ceiling	Drywall	UPPER	POOR	White	FLH	RH	First	127b	0	mg / cm ^2	Negative
1927	Wall	Drywall	A	POOR	White	FLH	RH	First	119	0	mg / cm ^2	Negative
1928	Wall	Drywall	A	POOR	White	FLH	RH	First	119	0	mg / cm ^2	Negative
1929	Wall	Drywall	A	POOR	White	FLH	RH	First	119	0	mg / cm ^2	Negative
1930	Wall	Drywall	B	POOR	White	FLH	RH	First	119	0	mg / cm ^2	Negative
1931	Wall	Drywall	C	POOR	White	FLH	RH	First	119	0	mg / cm ^2	Negative
1932	Wall	Drywall	C	POOR	White	FLH	RH	First	119	0	mg / cm ^2	Negative
1933	Wall	Drywall	D	POOR	White	FLH	RH	First	119	0	mg / cm ^2	Negative
1934	Wall	Drywall	D	POOR	White	FLH	RH	First	119	0	mg / cm ^2	Negative
1935	Door Jamb	Metal	C	GOOD	Beige	FLH	RH	First	119	0	mg / cm ^2	Negative
1936	Door Jamb	Metal	A	GOOD	Beige	FLH	RH	First	119	0	mg / cm ^2	Negative
1937	Door Jamb	Metal	D	GOOD	Beige	FLH	RH	First	119	0	mg / cm ^2	Negative
1938	TOILET	CERAMIC	A	GOOD	White	FLH	RH	First	119	0.01	mg / cm ^2	Negative
1939	TILE	CERAMIC	B	GOOD	White	FLH	RH	First	119	0.05	mg / cm ^2	Negative
1940	TILE	CERAMIC	B	GOOD	Brown	FLH	RH	First	119	0	mg / cm ^2	Negative
1941	Ceiling	Drywall	UPPER	GOOD	White	FLH	RH	First	119	0	mg / cm ^2	Negative
1942	Wall	Drywall	A	POOR	White	FLH	RH	First	118	0	mg / cm ^2	Negative
1943	Wall	Drywall	B	POOR	White	FLH	RH	First	118	0	mg / cm ^2	Negative
1944	Wall	Drywall	B	POOR	White	FLH	RH	First	118	0	mg / cm ^2	Negative
1945	Wall	Drywall	C	POOR	White	FLH	RH	First	118	0	mg / cm ^2	Negative
1946	Wall	Drywall	C	POOR	White	FLH	RH	First	118	0	mg / cm ^2	Negative
1947	Wall	Drywall	C	POOR	White	FLH	RH	First	118	0	mg / cm ^2	Negative
1948	Wall	Drywall	D	POOR	White	FLH	RH	First	118	0	mg / cm ^2	Negative
1949	Wall	Drywall	D	POOR	White	FLH	RH	First	118	0	mg / cm ^2	Negative
1950	Wall	Drywall	D	POOR	White	FLH	RH	First	118	0	mg / cm ^2	Negative
1951	TOILET	CERAMIC	C	GOOD	White	FLH	RH	First	118	0.04	mg / cm ^2	Negative
1952	Ceiling	Drywall	UPPER	GOOD	White	FLH	RH	First	118	0	mg / cm ^2	Negative
1953	Wall	Drywall	B	POOR	White	FLH	RH	First	117	0.14	mg / cm ^2	Negative
1954	Wall	Drywall	C	POOR	White	FLH	RH	First	117	0.3	mg / cm ^2	Negative
1955	Wall	Drywall	D	POOR	White	FLH	RH	First	117	0	mg / cm ^2	Negative
1956	Door Jamb	Metal	A	GOOD	Beige	FLH	RH	First	117	0	mg / cm ^2	Negative
1957	Door Jamb	Metal	B	GOOD	White	FLH	RH	First	117	0	mg / cm ^2	Negative

1958	Wall	Drywall	A	POOR	White	FLH	RH	First	129	0	mg / cm ^2	Negative
1959	Wall	Drywall	B	POOR	White	FLH	RH	First	129	0.08	mg / cm ^2	Negative
1960	Wall	Drywall	C	POOR	White	FLH	RH	First	129	0.6	mg / cm ^2	Negative
1961	Wall	Drywall	D	POOR	White	FLH	RH	First	129	0.04	mg / cm ^2	Negative
1962	PIPE	Metal	B	POOR	White	FLH	RH	First	129	0.28	mg / cm ^2	Negative
1963	Floor	Concrete	LOWER	GOOD	Grey	FLH	RH	First	129	0.01	mg / cm ^2	Negative
1964	Wall	Drywall	A	POOR	White	FLH	RH	First	130	0	mg / cm ^2	Negative
1965	Wall	Drywall	A	POOR	Beige	FLH	RH	First	130	0.01	mg / cm ^2	Negative
1966	Wall	Drywall	B	POOR	Beige	FLH	RH	First	130	0.13	mg / cm ^2	Negative
1967	Wall	Drywall	B	POOR	White	FLH	RH	First	130	0	mg / cm ^2	Negative
1968	Wall	Drywall	C	POOR	White	FLH	RH	First	130	0.05	mg / cm ^2	Negative
1969	Wall	Drywall	C	POOR	Beige	FLH	RH	First	130	0.6	mg / cm ^2	Negative
1970	Wall	Drywall	D	POOR	Beige	FLH	RH	First	130	0	mg / cm ^2	Negative
1971	Door Jamb	Wood	C	GOOD	STAIN	FLH	RH	First	130	0.04	mg / cm ^2	Negative
1972	Door Jamb	Wood	C	GOOD	STAIN	FLH	RH	First	130	0.02	mg / cm ^2	Negative
1973	Wall	Drywall	A	GOOD	White	FLH	RH	First	132	0	mg / cm ^2	Negative
1974	Wall	Drywall	B	GOOD	White	FLH	RH	First	132	0.15	mg / cm ^2	Negative
1975	Wall	Drywall	C	GOOD	White	FLH	RH	First	132	0	mg / cm ^2	Negative
1976	Wall	Drywall	D	GOOD	White	FLH	RH	First	132	0.01	mg / cm ^2	Negative
1977	Wall	Drywall	A	GOOD	Blue	FLH	RH	First	132	0	mg / cm ^2	Negative
1978	Wall	Drywall	B	GOOD	Blue	FLH	RH	First	132	0.07	mg / cm ^2	Negative
1979	Wall	Drywall	C	GOOD	Blue	FLH	RH	First	132	0.01	mg / cm ^2	Negative
1980	Wall	Drywall	D	GOOD	Blue	FLH	RH	First	132	0	mg / cm ^2	Negative
1981	Trim	Wood	A	GOOD	STAIN	FLH	RH	First	132	0	mg / cm ^2	Negative
1982	Trim	Wood	B	GOOD	STAIN	FLH	RH	First	132	0	mg / cm ^2	Negative
1983	Trim	Wood	C	GOOD	STAIN	FLH	RH	First	132	0	mg / cm ^2	Negative
1984	Trim	Wood	D	GOOD	STAIN	FLH	RH	First	132	0	mg / cm ^2	Negative
1985	Trim	Wood	A	GOOD	Grey	FLH	RH	First	132	0	mg / cm ^2	Negative
1987	Trim	Wood	D	GOOD	Grey	FLH	RH	First	132	0	mg / cm ^2	Negative
1988	Wall	Drywall	A	POOR	White	FLH	RH	First	138	0.2	mg / cm ^2	Negative
1989	Wall	Drywall	B	POOR	White	FLH	RH	First	138	0.19	mg / cm ^2	Negative
1990	Wall	Drywall	C	POOR	White	FLH	RH	First	138	0.22	mg / cm ^2	Negative
1991	Wall	Drywall	D	POOR	White	FLH	RH	First	138	0.13	mg / cm ^2	Negative
1992	Door Jamb	Wood	C	GOOD	STAIN	FLH	RH	First	138	0.03	mg / cm ^2	Negative

1993	Door Jamb	Wood	C	Intact	STAIN	FLH	RH	First	138	0.03	mg / cm ^2	Negative
1994	Wall	Drywall	A	POOR	White	FLH	RH	First	139	0	mg / cm ^2	Negative
1995	Wall	Drywall	B	POOR	White	FLH	RH	First	139	0	mg / cm ^2	Negative
1996	Wall	Drywall	C	POOR	White	FLH	RH	First	139	0	mg / cm ^2	Negative
1997	Wall	Drywall	D	POOR	White	FLH	RH	First	139	11.3	mg / cm ^2	Positive
1998	Wall	Drywall	D	POOR	White	FLH	RH	First	139	8.6	mg / cm ^2	Positive
1999			alibration Chec			FLH	RH	First	139	0	mg / cm ^2	Negative
2000			alibration Chec			FLH	RH	First	139	1.2	mg / cm ^2	Positive
2001			alibration Chec			FLH	RH	First	139	1.8	mg / cm ^2	Positive
2002			alibration Chec			FLH	RH	First	139	4.1	mg / cm ^2	Positive
2003	Wall	Drywall	D	POOR	White	FLH	RH	First	139	10.2	mg / cm ^2	Positive
2004	Wall	Drywall	D	POOR	White	FLH	RH	First	139	0	mg / cm ^2	Negative
2005	Wall	Drywall	D	POOR	White	FLH	RH	First	139	10.2	mg / cm ^2	Positive
2006	Wall	Drywall	D	POOR	White	FLH	RH	First	139	0	mg / cm ^2	Negative
2007	Wall	Drywall	D	POOR	White	FLH	RH	First	139	0	mg / cm ^2	Negative
2008	Wall	Drywall	D	POOR	White	FLH	RH	First	139	0.01	mg / cm ^2	Negative
2009	Door Jamb	Metal	A	GOOD	White	FLH	RH	First	139	2.7	mg / cm ^2	Positive
2010	Door Jamb	Metal	A	POOR	White	FLH	RH	First	139	0	mg / cm ^2	Negative
2011	Door Jamb	Metal	A	POOR	White	FLH	RH	First	139	0	mg / cm ^2	Negative
2013	Door Jamb	Metal	A	GOOD	White	FLH	RH	First	139	2.1	mg / cm ^2	Positive
2014	Door Jamb	Metal	A	GOOD	White	FLH	RH	First	139	6.4	mg / cm ^2	Positive
2015	Door Jamb	Metal	A	GOOD	White	FLH	RH	First	139	5.1	mg / cm ^2	Positive
2016	BEAM	Drywall	UPPER	GOOD	White	FLH	RH	First	139	0	mg / cm ^2	Negative
2017	BEAM	Drywall	UPPER	GOOD	White	FLH	RH	First	139	6.4	mg / cm ^2	Positive
2018	BEAM	Drywall	UPPER	GOOD	White	FLH	RH	First	139	0	mg / cm ^2	Negative
2019	BEAM	Drywall	UPPER	GOOD	White	FLH	RH	First	139	0.01	mg / cm ^2	Negative
2020	BEAM	Drywall	UPPER	GOOD	White	FLH	RH	First	139	0.5	mg / cm ^2	Negative
2021	BEAM	Drywall	UPPER	GOOD	White	FLH	RH	First	139	0	mg / cm ^2	Negative
2022	BEAM	Drywall	UPPER	GOOD	White	FLH	RH	First	139	0	mg / cm ^2	Negative
2023	BEAM	Drywall	UPPER	GOOD	White	FLH	RH	First	139	6.7	mg / cm ^2	Positive
2025	BEAM	Drywall	UPPER	GOOD	White	FLH	RH	First	139	0	mg / cm ^2	Negative
2026	BEAM	Drywall	UPPER	GOOD	White	FLH	RH	First	139	0	mg / cm ^2	Negative
2027	BEAM	Drywall	UPPER	GOOD	White	FLH	RH	First	139	0.4	mg / cm ^2	Negative
2028	Wall	Drywall	A	POOR	Green	FLH	RH	First	136	0.17	mg / cm ^2	Negative

2029	Wall	Drywall	B	POOR	Green	FLH	RH	First	136	0	mg / cm ^2	Negative
2030	Wall	Drywall	B	POOR	Green	FLH	RH	First	136	0	mg / cm ^2	Negative
2031	Wall	Drywall	B	POOR	Green	FLH	RH	First	136	0	mg / cm ^2	Negative
2032	Wall	Drywall	C	POOR	Green	FLH	RH	First	136	0	mg / cm ^2	Negative
2033	Wall	Drywall	D	POOR	Green	FLH	RH	First	136	0	mg / cm ^2	Negative
2034	Wall	Drywall	D	POOR	Green	FLH	RH	First	136	0.05	mg / cm ^2	Negative
2035	Door Jamb	Metal	A	GOOD	STAIN	FLH	RH	First	136	0	mg / cm ^2	Negative
2036	Door Jamb	Wood	A	GOOD	STAIN	FLH	RH	First	136	0	mg / cm ^2	Negative
2037	Door Casing	Wood	A	GOOD	STAIN	FLH	RH	First	136	0	mg / cm ^2	Negative
2038	Wall	Drywall	A	POOR	Brown	FLH	RH	First	137	0	mg / cm ^2	Negative
2039	Wall	Drywall	B	POOR	Brown	FLH	RH	First	137	0	mg / cm ^2	Negative
2040	Wall	Drywall	C	POOR	Brown	FLH	RH	First	137	0	mg / cm ^2	Negative
2041	Wall	Drywall	D	POOR	Brown	FLH	RH	First	137	0	mg / cm ^2	Negative
2042	Wall	Drywall	D	POOR	Brown	FLH	RH	First	137	0	mg / cm ^2	Negative
2043	Wall	Drywall	A	POOR	White	FLH	RH	First	135	0.2	mg / cm ^2	Negative
2044	Wall	Drywall	B	POOR	White	FLH	RH	First	135	0.05	mg / cm ^2	Negative
2045	Wall	Drywall	C	POOR	White	FLH	RH	First	135	0	mg / cm ^2	Negative
2046	Wall	Drywall	D	POOR	White	FLH	RH	First	135	0	mg / cm ^2	Negative
2047	DUMBWAITER	Metal	C	GOOD	White	FLH	RH	First	135	0.16	mg / cm ^2	Negative
2048	DUMBWAITER	Metal	C	GOOD	White	FLH	RH	First	135	0.03	mg / cm ^2	Negative
2049	DUMBWAITER	Metal	C	GOOD	White	FLH	RH	First	135	0.05	mg / cm ^2	Negative
2050	Door Jamb	Wood	A	GOOD	STAIN	FLH	RH	First	135	0.03	mg / cm ^2	Negative
2051	Door Jamb	Wood	A	GOOD	STAIN	FLH	RH	First	135	0.03	mg / cm ^2	Negative
2052	Wall	Drywall	A	POOR	White	FLH	RH	First	128	0	mg / cm ^2	Negative
2053	Wall	Drywall	B	POOR	White	FLH	RH	First	128	0	mg / cm ^2	Negative
2054	Wall	Drywall	C	POOR	White	FLH	RH	First	128	0	mg / cm ^2	Negative
2055	Wall	Drywall	C	POOR	White	FLH	RH	First	128	0	mg / cm ^2	Negative
2056	Wall	Drywall	D	POOR	White	FLH	RH	First	128	0.22	mg / cm ^2	Negative
2057	Ceiling	Drywall	UPPER	POOR	White	FLH	RH	First	128	0	mg / cm ^2	Negative
2058	DUMBWAITER	Metal	D	GOOD	White	FLH	RH	First	128	0.1	mg / cm ^2	Negative
2059	DUMBWAITER	Metal	D	GOOD	White	FLH	RH	First	128	0.3	mg / cm ^2	Negative
2060	DUMBWAITER	Metal	D	GOOD	White	FLH	RH	First	128	0.3	mg / cm ^2	Negative
2061	DUMBWAITER	Metal	D	GOOD	White	FLH	RH	First	128	0.3	mg / cm ^2	Negative
2062	Door Jamb	Metal	A	GOOD	White	FLH	RH	First	128	0	mg / cm ^2	Negative

2063	Door Jamb	Metal	A	GOOD	White	FLH	RH	First	128	0	mg / cm ^2	Negative
2064	Wall	Drywall	A	POOR	White	FLH	RH	First	131	0	mg / cm ^2	Negative
2065	Wall	Drywall	A	POOR	White	FLH	RH	First	131	0	mg / cm ^2	Negative
2066	Wall	Drywall	A	POOR	White	FLH	RH	First	131	0.3	mg / cm ^2	Negative
2067	Wall	Drywall	C	POOR	White	FLH	RH	First	131	0.01	mg / cm ^2	Negative
2068	Wall	Drywall	C	POOR	White	FLH	RH	First	131	0.5	mg / cm ^2	Negative
2069	Wall	Drywall	C	POOR	White	FLH	RH	First	131	0.3	mg / cm ^2	Negative
2070	Wall	Drywall	C	POOR	White	FLH	RH	First	131	0	mg / cm ^2	Negative
2071	Wall	Drywall	A	POOR	Blue	FLH	RH	First	131	0.28	mg / cm ^2	Negative
2072	Wall	Drywall	A	POOR	Blue	FLH	RH	First	131	0	mg / cm ^2	Negative
2073	Wall	Drywall	A	POOR	Blue	FLH	RH	First	131	0.5	mg / cm ^2	Negative
2074	Wall	Drywall	C	POOR	Blue	FLH	RH	First	131	0.07	mg / cm ^2	Negative
2075	Wall	Drywall	C	POOR	Blue	FLH	RH	First	131	0.4	mg / cm ^2	Negative
2076	Wall	Drywall	C	POOR	Blue	FLH	RH	First	131	0	mg / cm ^2	Negative
2077	Door Jamb	Metal	B	GOOD	White	FLH	RH	First	131	0.01	mg / cm ^2	Negative
2078	Door Jamb	Metal	B	GOOD	White	FLH	RH	First	131	0	mg / cm ^2	Negative
2079	Door Jamb	Metal	B	GOOD	White	FLH	RH	First	131	0.02	mg / cm ^2	Negative
2080	Wall	Drywall	B	POOR	White	FLH	RH	First	190	0	mg / cm ^2	Negative
2081	Wall	Drywall	B	POOR	White	FLH	RH	First	190	0	mg / cm ^2	Negative
2082	Wall	Drywall	C	POOR	White	FLH	RH	First	190	0	mg / cm ^2	Negative
2083	Wall	Drywall	D	POOR	White	FLH	RH	First	190	0	mg / cm ^2	Negative
2085	Wall	Drywall	B	POOR	Blue	FLH	RH	First	190	0	mg / cm ^2	Negative
2086	Wall	Drywall	D	POOR	Blue	FLH	RH	First	190	0	mg / cm ^2	Negative
2087	Wall	Drywall	A	POOR	White	FLH	RH	First	133	0.01	mg / cm ^2	Negative
2090	Wall	Drywall	B	POOR	White	FLH	RH	First	133	0.5	mg / cm ^2	Negative
2091	Wall	Drywall	C	POOR	White	FLH	RH	First	133	0	mg / cm ^2	Negative
2092	Wall	Drywall	D	POOR	White	FLH	RH	First	133	0.08	mg / cm ^2	Negative
2093	Door Jamb	Metal	B	GOOD	White	FLH	RH	First	133	0	mg / cm ^2	Negative
2094	Door Jamb	Metal	B	GOOD	White	FLH	RH	First	133	0	mg / cm ^2	Negative
2096	CONDUIT	Metal	A	GOOD	White	FLH	RH	First	133	0	mg / cm ^2	Negative
2097	Wall	Plaster	A	POOR	White	FLH	RH	First	133	0.15	mg / cm ^2	Negative
2098	Wall	Plaster	B	POOR	White	FLH	RH	First	133	0.12	mg / cm ^2	Negative
2100	Wall	Drywall	B	POOR	White	FLH	RH	First	133	0	mg / cm ^2	Negative
2101	Wall	Drywall	C	POOR	White	FLH	RH	First	133	0.14	mg / cm ^2	Negative

2102	Wall	Drywall	C	POOR	White	FLH	RH	First	133	0.14	mg / cm ^2	Negative
2103	Wall	Drywall	D	POOR	Green	FLH	RH	First	133	0.27	mg / cm ^2	Negative
2104	Door Jamb	Wood	D	GOOD	STAIN	FLH	RH	First	133	0.1	mg / cm ^2	Negative
2105	Door Jamb	Wood	D	GOOD	STAIN	FLH	RH	First	133	0.02	mg / cm ^2	Negative
2106	Wall	Drywall	A	POOR	White	FLH	RH	First	109a	0.23	mg / cm ^2	Negative
2107	Wall	Drywall	B	POOR	White	FLH	RH	First	109a	0.02	mg / cm ^2	Negative
2108	Wall	Drywall	C	POOR	White	FLH	RH	First	109a	0	mg / cm ^2	Negative
2109	Wall	Drywall	D	POOR	White	FLH	RH	First	109a	0	mg / cm ^2	Negative
2110	Door Jamb	Metal	D	GOOD	White	FLH	RH	First	109a	0	mg / cm ^2	Negative
2111	Door Jamb	Metal	D	GOOD	White	FLH	RH	First	109a	0	mg / cm ^2	Negative
2112	Wall	Drywall	A	POOR	White	FLH	RH	First	107	0.09	mg / cm ^2	Negative
2113	Wall	Drywall	B	POOR	White	FLH	RH	First	107	8.1	mg / cm ^2	Positive
2115	Wall	Plaster	B	POOR	White	FLH	RH	First	107	0.28	mg / cm ^2	Negative
2116	Wall	Plaster	B	POOR	White	FLH	RH	First	107	0	mg / cm ^2	Negative
2117	Wall	Drywall	B	POOR	White	FLH	RH	First	107	6.7	mg / cm ^2	Positive
2118	Wall	Drywall	A	POOR	White	FLH	RH	First	107	0.2	mg / cm ^2	Negative
2119	Wall	Drywall	B	POOR	White	FLH	RH	First	107	6.7	mg / cm ^2	Positive
2120	Wall	Plaster	B	POOR	White	FLH	RH	First	107	0.7	mg / cm ^2	Negative
2121	Wall	Plaster	B	POOR	White	FLH	RH	First	107	7.1	mg / cm ^2	Positive
2122	Wall	Plaster	C	POOR	Purple	FLH	RH	First	107	0.04	mg / cm ^2	Negative
2123	Window Frame	Metal	A	GOOD	White	FLH	RH	First	107	15.7	mg / cm ^2	Positive
2124	Door Jamb	Metal	A	GOOD	White	FLH	RH	First	107	0.01	mg / cm ^2	Negative
2125	Door Jamb	Metal	A	GOOD	White	FLH	RH	First	107	0.01	mg / cm ^2	Negative
2126	TOILET	CERAMIC	A	GOOD	White	FLH	RH	First	107	3.4	mg / cm ^2	Positive
2127	Wall	Drywall	A	POOR	White	FLH	RH	First	107	0	mg / cm ^2	Negative
2128	Wall	Drywall	A	POOR	White	FLH	RH	First	107	0.07	mg / cm ^2	Negative
2129	Wall	Plaster	A	POOR	White	FLH	RH	First	106	0.29	mg / cm ^2	Negative
2130	Wall	Drywall	A	POOR	White	FLH	RH	First	106	0	mg / cm ^2	Negative
2131	Wall	Plaster	B	POOR	White	FLH	RH	First	106	0.18	mg / cm ^2	Negative
2132	Wall	Plaster	B	POOR	White	FLH	RH	First	106	0.15	mg / cm ^2	Negative
2133	Wall	Drywall	C	POOR	White	FLH	RH	First	106	0.11	mg / cm ^2	Negative
2134	Wall	Drywall	C	POOR	White	FLH	RH	First	106	0	mg / cm ^2	Negative
2135	Wall	Drywall	D	POOR	White	FLH	RH	First	106	0.06	mg / cm ^2	Negative
2136	Wall	Drywall	D	POOR	White	FLH	RH	First	106	0	mg / cm ^2	Negative

2137	Post	Drywall	A	POOR	White	FLH	RH	First	106	0	mg / cm ^2	Negative
2139	COLUMN	Plaster	CENTER	POOR	White	FLH	RH	First	106	0.13	mg / cm ^2	Negative
2140	COLUMN	Plaster	CENTER	POOR	White	FLH	RH	First	106	0.04	mg / cm ^2	Negative
2141	Window	Metal	B	GOOD	SILVER	FLH	RH	First	106	0	mg / cm ^2	Negative
2142	Window	Metal	B	GOOD	SILVER	FLH	RH	First	106	0	mg / cm ^2	Negative
2143	Window	Metal	B	GOOD	SILVER	FLH	RH	First	106	-0.33	mg / cm ^2	Negative
2144	Window Sill	Metal	B	GOOD	White	FLH	RH	First	106	0.28	mg / cm ^2	Negative
2145	Window Sill	Metal	B	GOOD	White	FLH	RH	First	106	0.16	mg / cm ^2	Negative
2146	Window Sill	Metal	B	GOOD	White	FLH	RH	First	106	0.3	mg / cm ^2	Negative
2147	Ceiling	Drywall	UPPER	GOOD	White	FLH	RH	First	106	0.7	mg / cm ^2	Negative
2148	FIRE LINE	Metal	UPPER	GOOD	Red	FLH	RH	First	106	0.01	mg / cm ^2	Negative
2149	Door Jamb	Wood	D	GOOD	STAIN	FLH	RH	First	106	0.05	mg / cm ^2	Negative
2150	Door Jamb	Wood	D	GOOD	STAIN	FLH	RH	First	106	0.05	mg / cm ^2	Negative
2151	Door Jamb	Wood	D	GOOD	STAIN	FLH	RH	First	106	0.4	mg / cm ^2	Negative
2152	Wall	Drywall	A	POOR	White	FLH	RH	First	113	0	mg / cm ^2	Negative
2153	Wall	Drywall	D	POOR	White	FLH	RH	First	113	0.01	mg / cm ^2	Negative
2154	Wall	Drywall	C	POOR	White	FLH	RH	First	108	0	mg / cm ^2	Negative
2155	Wall	Drywall	D	POOR	White	FLH	RH	First	112	0	mg / cm ^2	Negative
2156	Wall	Drywall	C	POOR	White	FLH	RH	First	111	0	mg / cm ^2	Negative
2157	Wall	Drywall	A	POOR	White	FLH	RH	First	194	0	mg / cm ^2	Negative
2158	Wall	Drywall	C	POOR	Brown	FLH	RH	First	194	0.23	mg / cm ^2	Negative
2160	Wall	Drywall	B	POOR	Brown	FLH	RH	First	195	0	mg / cm ^2	Negative
2161	Wall	Drywall	A	POOR	White	FLH	RH	First	196	0.08	mg / cm ^2	Negative
2162	Wall	Drywall	C	POOR	White	FLH	RH	First	196	0	mg / cm ^2	Negative
2163	Wall	Drywall	A	POOR	White	FLH	RH	First	197	0	mg / cm ^2	Negative
2164	Wall	Drywall	C	POOR	White	FLH	RH	First	197	0.15	mg / cm ^2	Negative
2165	Wall	Drywall	C	POOR	White	FLH	RH	First	197	0.07	mg / cm ^2	Negative
2166	Wall	Drywall	B	POOR	White	FLH	RH	First	197	0	mg / cm ^2	Negative
2167	Wall	Drywall	B	POOR	Blue	FLH	RH	First	200	0.09	mg / cm ^2	Negative
2168	Wall	Drywall	B	POOR	White	FLH	RH	First	201	0	mg / cm ^2	Negative
2169	Ceiling	Drywall	B	POOR	White	FLH	RH	First	201	0	mg / cm ^2	Negative
2170	Ceiling	Drywall	D	POOR	White	FLH	RH	First	202	0	mg / cm ^2	Negative
2171	Ceiling	Drywall	A	POOR	White	FLH	RH	First	203	0.06	mg / cm ^2	Negative
2172	Ceiling	Drywall	A	POOR	White	FLH	RH	First	204	0	mg / cm ^2	Negative

2173	Ceiling	Drywall	B	POOR	White	FLH	RH	First	204	0.23	mg / cm ^2	Negative
2174	Wall	Drywall	C	POOR	White	FLH	RH	First	205	0	mg / cm ^2	Negative
2176	Wall	Drywall	D	POOR	White	FLH	RH	First	205	0	mg / cm ^2	Negative
2177	Wall	Drywall	D	POOR	White	FLH	RH	First	205	0	mg / cm ^2	Negative
2178	Wall	Drywall	D	POOR	White	FLH	RH	First	1	0.07	mg / cm ^2	Negative
2179	Wall	Drywall	D	POOR	White	FLH	RH	First	1	0	mg / cm ^2	Negative
2180	Wall	Drywall	C	POOR	White	FLH	RH	First	29	0.15	mg / cm ^2	Negative
2181	Wall	Drywall	A	POOR	Yellow	FLH	RH	First	4	0.16	mg / cm ^2	Negative
2182	Wall	Drywall	B	POOR	Yellow	FLH	RH	First	4	0	mg / cm ^2	Negative
2183	Wall	Drywall	B	POOR	Yellow	FLH	RH	First	4	0.25	mg / cm ^2	Negative
2184	Wall	Drywall	B	POOR	White	FLH	RH	First	14	0	mg / cm ^2	Negative
2185	Wall	Drywall	B	POOR	Blue	FLH	RH	First	009a	0.08	mg / cm ^2	Negative
2186	Ceiling	Drywall	B	POOR	White	FLH	RH	First	9	0.4	mg / cm ^2	Negative
2187	Ceiling	Drywall	B	POOR	White	FLH	RH	First	9	0	mg / cm ^2	Negative
2188	Ceiling	Drywall	B	POOR	White	FLH	RH	First	9	0.3	mg / cm ^2	Negative
2189			alibration Chec			FLH	RH			0	mg / cm ^2	Negative
2190			alibration Chec			FLH	RH			0.9	mg / cm ^2	Negative
2191			alibration Chec			FLH	RH			1.6	mg / cm ^2	Positive
2192			alibration Chec			FLH	RH			3.2	mg / cm ^2	Positive
2202	Wall	Plaster	A	POOR	Green	FLH	RH	First	102	0.14	mg / cm ^2	Negative
2203	Wall	Drywall	B	POOR	Green	FLH	RH	First	102	0	mg / cm ^2	Negative
2204	Wall	Drywall	C	POOR	Green	FLH	RH	First	102	0	mg / cm ^2	Negative
2205	Wall	Drywall	D	POOR	Green	FLH	RH	First	102	0.07	mg / cm ^2	Negative
2206	Door Jamb	Metal	D	GOOD	White	FLH	RH	First	102	0	mg / cm ^2	Negative
2207	Door Jamb	Metal	D	GOOD	White	FLH	RH	First	102	0	mg / cm ^2	Negative
2210	Wall	Plaster	A	GOOD	White	FLH	RH	First	100	0.6	mg / cm ^2	Negative
2211	Wall	Drywall	B	GOOD	White	FLH	RH	First	100	0.6	mg / cm ^2	Negative
2212	Wall	Drywall	C	GOOD	White	FLH	RH	First	100	0.5	mg / cm ^2	Negative
2213	Wall	Drywall	D	GOOD	White	FLH	RH	First	100	0.6	mg / cm ^2	Negative
2214	Door	Metal	A	GOOD	White	FLH	RH	First	100	0.02	mg / cm ^2	Negative
2215	Door	Metal	A	GOOD	White	FLH	RH	First	100	0.05	mg / cm ^2	Negative
2216	Door Jamb	Wood	A	GOOD	STAIN	FLH	RH	First	100	0.07	mg / cm ^2	Negative
2217	Door Jamb	Wood	A	GOOD	STAIN	FLH	RH	First	100	0.06	mg / cm ^2	Negative
2218	Window	Wood	A	GOOD	STAIN	FLH	RH	First	100	0.01	mg / cm ^2	Negative

2219	Window Casing	Wood	A	GOOD	STAIN	FLH	RH	First	100	0.03	mg / cm ^2	Negative
2220	WAINSCOATING	Wood	B	GOOD	White	FLH	RH	First	100	0.16	mg / cm ^2	Negative
2221	WAINSCOATING	Wood	C	GOOD	White	FLH	RH	First	100	0.22	mg / cm ^2	Negative
2222	WAINSCOATING	Wood	D	GOOD	White	FLH	RH	First	100	0.21	mg / cm ^2	Negative
2223	RADIATOR	Metal	D	GOOD	White	FLH	RH	First	100	0.17	mg / cm ^2	Negative
2224	PIPE	Metal	D	GOOD	White	FLH	RH	First	100	0.09	mg / cm ^2	Negative
2225	Ceiling	Drywall	UPPER	GOOD	Green	FLH	RH	First	100	0.7	mg / cm ^2	Negative
2226	Wall	Drywall	A	POOR	Pink	FLH	RH	First	103	0	mg / cm ^2	Negative
2227	Wall	Drywall	B	POOR	Pink	FLH	RH	First	103	0	mg / cm ^2	Negative
2228	Wall	Drywall	C	POOR	Pink	FLH	RH	First	103	0	mg / cm ^2	Negative
2229	Wall	Drywall	D	POOR	Pink	FLH	RH	First	103	0	mg / cm ^2	Negative
2230	Ceiling	Drywall	UPPER	POOR	White	FLH	RH	First	103	0	mg / cm ^2	Negative
2231	Door Jamb	Metal	B	POOR	White	FLH	RH	First	103	0	mg / cm ^2	Negative
2232	Door Jamb	Metal	B	POOR	White	FLH	RH	First	103	0	mg / cm ^2	Negative
2233	Wall	Drywall	A	POOR	White	FLH	RH	First	103	0	mg / cm ^2	Negative
2235	Wall	Drywall	B	POOR	Grey	FLH	RH	First	104	0	mg / cm ^2	Negative
2236	Wall	Drywall	C	POOR	Grey	FLH	RH	First	104	0	mg / cm ^2	Negative
2237	Wall	Drywall	C	POOR	Grey	FLH	RH	First	104	0	mg / cm ^2	Negative
2238	Wall	Plaster	D	POOR	Grey	FLH	RH	First	104	0.1	mg / cm ^2	Negative
2239	Door Jamb	Metal	C	GOOD	White	FLH	RH	First	104	0	mg / cm ^2	Negative
2240	Door Jamb	Metal	C	GOOD	White	FLH	RH	First	104	0	mg / cm ^2	Negative
2241	Wall	Drywall	A	POOR	White	FLH	RH	First	104a	0	mg / cm ^2	Negative
2242	Wall	Drywall	B	POOR	White	FLH	RH	First	104a	0.03	mg / cm ^2	Negative
2243	Wall	Drywall	C	POOR	White	FLH	RH	First	104a	0.3	mg / cm ^2	Negative
2244	Wall	Plaster	D	POOR	White	FLH	RH	First	104a	0.09	mg / cm ^2	Negative
2245	Ceiling	Drywall	UPPER	POOR	White	FLH	RH	First	104a	0.1	mg / cm ^2	Negative
2246	TOILET	CERAMIC	B	GOOD	White	FLH	RH	First	104a	3.4	mg / cm ^2	Positive
2247	Door Jamb	Wood	A	GOOD	White	FLH	RH	First	104a	0.08	mg / cm ^2	Negative
2248	Door Jamb	Wood	A	GOOD	White	FLH	RH	First	104a	0.15	mg / cm ^2	Negative
2249	Door Casing	Wood	A	GOOD	White	FLH	RH	First	104a	0	mg / cm ^2	Negative
2250	Wall	Drywall	A	POOR	White	FLH	RH	First	134	0.01	mg / cm ^2	Negative
2251	Wall	Drywall	B	POOR	White	FLH	RH	First	134	0	mg / cm ^2	Negative
2252	Wall	Drywall	C	POOR	White	FLH	RH	First	134	0	mg / cm ^2	Negative
2253	Wall	Drywall	D	POOR	White	FLH	RH	First	134	0.3	mg / cm ^2	Negative

2254	Door Jamb	Metal	A	GOOD	White	FLH	RH	First	134	0	mg / cm ^2	Negative
2255	Door Jamb	Metal	A	GOOD	White	FLH	RH	First	134	0	mg / cm ^2	Negative
2256	Door	Wood	A	GOOD	STAIN	FLH	RH	First	134	0	mg / cm ^2	Negative
2257	Door	Wood	A	GOOD	STAIN	FLH	RH	First	134	0	mg / cm ^2	Negative
2258	Wall	Drywall	A	POOR	White	FLH	RH	First	101	0.03	mg / cm ^2	Negative
2259	Wall	Drywall	A	POOR	White	FLH	RH	First	101	0	mg / cm ^2	Negative
2260	Wall	Drywall	A	POOR	White	FLH	RH	First	101	0	mg / cm ^2	Negative
2261	Wall	Drywall	B	POOR	White	FLH	RH	First	101	0.5	mg / cm ^2	Negative
2262	Wall	Drywall	B	POOR	White	FLH	RH	First	101	0	mg / cm ^2	Negative
2263	Wall	Drywall	C	POOR	White	FLH	RH	First	101	0	mg / cm ^2	Negative
2264	Wall	Drywall	D	POOR	White	FLH	RH	First	101	0	mg / cm ^2	Negative
2265	Wall	Drywall	D	POOR	White	FLH	RH	First	101	0.27	mg / cm ^2	Negative
2266	Wall	Drywall	D	POOR	White	FLH	RH	First	101	0.28	mg / cm ^2	Negative
2267	Wall	Drywall	A	POOR	Purple	FLH	RH	First	101	0	mg / cm ^2	Negative
2268	Wall	Drywall	A	POOR	Purple	FLH	RH	First	101	0	mg / cm ^2	Negative
2269	Wall	Drywall	B	POOR	Purple	FLH	RH	First	101	0.27	mg / cm ^2	Negative
2270	Wall	Drywall	B	POOR	Purple	FLH	RH	First	101	0.27	mg / cm ^2	Negative
2271	Wall	Drywall	C	POOR	Purple	FLH	RH	First	101	0	mg / cm ^2	Negative
2272	Wall	Drywall	C	POOR	Purple	FLH	RH	First	101	0	mg / cm ^2	Negative
2273	Wall	Drywall	D	POOR	Purple	FLH	RH	First	101	0.11	mg / cm ^2	Negative
2274	Wall	Drywall	D	POOR	Purple	FLH	RH	First	101	0.22	mg / cm ^2	Negative
2275	Wall	Drywall	D	POOR	Purple	FLH	RH	First	101	0.3	mg / cm ^2	Negative
2276	Wall	Drywall	A	POOR	Brown	FLH	RH	First	116	0	mg / cm ^2	Negative
2277	Wall	Drywall	B	POOR	Brown	FLH	RH	First	116	0	mg / cm ^2	Negative
2278	Wall	Drywall	C	POOR	Brown	FLH	RH	First	116	0	mg / cm ^2	Negative
2279	Wall	Drywall	D	POOR	Brown	FLH	RH	First	116	0	mg / cm ^2	Negative
2280	Door Jamb	Metal	B	GOOD	White	FLH	RH	First	116	0	mg / cm ^2	Negative
2281	Door Jamb	Metal	B	GOOD	White	FLH	RH	First	116	0	mg / cm ^2	Negative
2282	Wall	Drywall	A	GOOD	Beige	FLH	RH	First	110a	0	mg / cm ^2	Negative
2283	Wall	Drywall	B	GOOD	Beige	FLH	RH	First	110a	0	mg / cm ^2	Negative
2284	Wall	Drywall	C	GOOD	Beige	FLH	RH	First	110a	0.01	mg / cm ^2	Negative
2285	Wall	Drywall	D	GOOD	Beige	FLH	RH	First	110a	0.01	mg / cm ^2	Negative
2286	Door Jamb	Concrete	D	GOOD	White	FLH	RH	First	110a	0	mg / cm ^2	Negative
2287	Door Jamb	Concrete	D	GOOD	White	FLH	RH	First	110a	0	mg / cm ^2	Negative

2288	Wall	Drywall	A	POOR	White	FLH	RH	First	110a	0	mg / cm ^2	Negative
2289	Wall	Drywall	B	POOR	White	FLH	RH	First	110a	0	mg / cm ^2	Negative
2290	Wall	Drywall	C	POOR	White	FLH	RH	First	110a	0.02	mg / cm ^2	Negative
2291	Wall	Drywall	D	POOR	White	FLH	RH	First	110a	0.17	mg / cm ^2	Negative
2292	Wall	Drywall	A	POOR	White	FLH	RH	First	114	0	mg / cm ^2	Negative
2293	Wall	Drywall	B	POOR	White	FLH	RH	First	114	0	mg / cm ^2	Negative
2294	Wall	Drywall	C	POOR	White	FLH	RH	First	114	0	mg / cm ^2	Negative
2295	Wall	Drywall	D	POOR	White	FLH	RH	First	114	0	mg / cm ^2	Negative
2296	Wall	Drywall	A	POOR	White	FLH	RH	First	110	0	mg / cm ^2	Negative
2297	Wall	Drywall	A	POOR	White	FLH	RH	First	110	0	mg / cm ^2	Negative
2298	Wall	Drywall	B	POOR	White	FLH	RH	First	110	0	mg / cm ^2	Negative
2299	Wall	Drywall	B	POOR	White	FLH	RH	First	110	0	mg / cm ^2	Negative
2300	Wall	Drywall	C	POOR	White	FLH	RH	First	110	0	mg / cm ^2	Negative
2301	Wall	Drywall	D	POOR	White	FLH	RH	First	110	0	mg / cm ^2	Negative
2302	Wall	Drywall	D	POOR	White	FLH	RH	First	110	0	mg / cm ^2	Negative
2303	Ceiling	Drywall	UPPER	POOR	White	FLH	RH	First	110	0	mg / cm ^2	Negative
2304	TILE	CERAMIC	A	GOOD	White	FLH	RH	First	110	0.02	mg / cm ^2	Negative
2305	TILE	CERAMIC	B	GOOD	White	FLH	RH	First	110	0.02	mg / cm ^2	Negative
2306	SINK BASE	CERAMIC	B	GOOD	White	FLH	RH	First	110	32.6	mg / cm ^2	Positive
2307	PIPE	Metal	B	GOOD	White	FLH	RH	First	110	0	mg / cm ^2	Negative
2308	Wall	Drywall	A	POOR	White	FLH	RH	First	113	0	mg / cm ^2	Negative
2309	Wall	Drywall	B	POOR	White	FLH	RH	First	113	0	mg / cm ^2	Negative
2310	Wall	Drywall	B	POOR	White	FLH	RH	First	113	0	mg / cm ^2	Negative
2311	Wall	Drywall	C	POOR	White	FLH	RH	First	113	0	mg / cm ^2	Negative
2312	Wall	Drywall	D	POOR	White	FLH	RH	First	113	0	mg / cm ^2	Negative
2313	Door Jamb	Metal	D	GOOD	White	FLH	RH	First	113	0	mg / cm ^2	Negative
2314	Door Jamb	Metal	B	GOOD	White	FLH	RH	First	113	0.01	mg / cm ^2	Negative
2315	Door Jamb	Metal	C	GOOD	White	FLH	RH	First	113	0	mg / cm ^2	Negative
2316	Wall	Drywall	A	POOR	White	FLH	RH	First	113	0	mg / cm ^2	Negative
2317	Wall	Drywall	B	POOR	White	FLH	RH	First	113	0	mg / cm ^2	Negative
2318	Wall	Drywall	C	POOR	White	FLH	RH	First	113	0.15	mg / cm ^2	Negative
2319	Wall	Drywall	D	POOR	White	FLH	RH	First	113	0	mg / cm ^2	Negative
2320	TOILET	CERAMIC	A	GOOD	White	FLH	RH	First	113	0.01	mg / cm ^2	Negative
2321	Wall	Drywall	A	POOR	White	FLH	RH	First	108	0	mg / cm ^2	Negative

2322	Wall	Drywall	B	POOR	White	FLH	RH	First	108	0	mg / cm ^2	Negative
2323	Wall	Drywall	C	POOR	White	FLH	RH	First	108	0	mg / cm ^2	Negative
2324	Wall	Drywall	D	POOR	White	FLH	RH	First	108	0	mg / cm ^2	Negative
2325	Door Jamb	Metal	B	GOOD	White	FLH	RH	First	108	0.08	mg / cm ^2	Negative
2326	Door Jamb	Metal	B	GOOD	White	FLH	RH	First	108	0	mg / cm ^2	Negative
2327	Door Jamb	Metal	D	GOOD	White	FLH	RH	First	108	0	mg / cm ^2	Negative
2328	Door	Wood	B	GOOD	STAIN	FLH	RH	First	108	0	mg / cm ^2	Negative
2329	Wall	Drywall	A	POOR	White	FLH	RH	First	112	0	mg / cm ^2	Negative
2330	Wall	Drywall	B	POOR	White	FLH	RH	First	112	0	mg / cm ^2	Negative
2331	Wall	Drywall	C	POOR	White	FLH	RH	First	112	0.01	mg / cm ^2	Negative
2332	Wall	Drywall	D	POOR	White	FLH	RH	First	112	0	mg / cm ^2	Negative
2333	Door Jamb	Metal	B	GOOD	White	FLH	RH	First	112	0	mg / cm ^2	Negative
2334	Door Jamb	Metal	B	GOOD	White	FLH	RH	First	112	0	mg / cm ^2	Negative
2335	Door Casing	Wood	B	GOOD	STAIN	FLH	RH	First	112	0	mg / cm ^2	Negative
2336	Wall	Drywall	A	POOR	White	FLH	RH	First	111	0	mg / cm ^2	Negative
2337	Wall	Drywall	B	POOR	White	FLH	RH	First	111	0	mg / cm ^2	Negative
2338	Wall	Drywall	C	POOR	White	FLH	RH	First	111	0	mg / cm ^2	Negative
2339	Wall	Drywall	D	POOR	White	FLH	RH	First	111	0	mg / cm ^2	Negative
2340	Door	Wood	B	GOOD	STAN	FLH	RH	First	111	0	mg / cm ^2	Negative
2341	Door Jamb	Metal	B	GOOD	White	FLH	RH	First	111	0	mg / cm ^2	Negative
2342	Wall	Drywall	A	POOR	White	FLH	RH	First	192	0	mg / cm ^2	Negative
2343	Wall	Drywall	A	POOR	White	FLH	RH	First	192	0	mg / cm ^2	Negative
2344	Wall	Drywall	B	POOR	White	FLH	RH	First	192	0	mg / cm ^2	Negative
2345	Wall	Drywall	B	POOR	White	FLH	RH	First	192	0	mg / cm ^2	Negative
2346	Wall	Drywall	C	POOR	White	FLH	RH	First	192	0	mg / cm ^2	Negative
2347	Wall	Drywall	C	POOR	White	FLH	RH	First	192	0.01	mg / cm ^2	Negative
2348	Wall	Drywall	D	POOR	White	FLH	RH	First	192	0	mg / cm ^2	Negative
2349	Wall	Drywall	A	POOR	Blue	FLH	RH	First	192	0	mg / cm ^2	Negative
2350	Wall	Drywall	A	POOR	Blue	FLH	RH	First	192	0	mg / cm ^2	Negative
2351	Wall	Drywall	B	POOR	Blue	FLH	RH	First	192	0	mg / cm ^2	Negative
2352	Wall	Drywall	B	POOR	Blue	FLH	RH	First	192	0	mg / cm ^2	Negative
2353	Wall	Drywall	C	POOR	Blue	FLH	RH	First	192	0	mg / cm ^2	Negative
2354	Wall	Drywall	C	POOR	Blue	FLH	RH	First	192	0.3	mg / cm ^2	Negative
2355	Wall	Drywall	D	POOR	Blue	FLH	RH	First	192	0.4	mg / cm ^2	Negative

2356	Door	Metal	D	GOOD	White	FLH	RH	First	192	0	mg / cm ^2	Negative
2357	Door Jamb	Metal	D	GOOD	Grey	FLH	RH	First	192	0	mg / cm ^2	Negative
2358	Door Jamb	Metal	D	GOOD	Grey	FLH	RH	First	192	0	mg / cm ^2	Negative
2359	Wall	Drywall	A	POOR	White	FLH	RH	First	206	0	mg / cm ^2	Negative
2360	Wall	Drywall	B	POOR	White	FLH	RH	First	206	0	mg / cm ^2	Negative
2361	Wall	Drywall	C	POOR	White	FLH	RH	First	206	0	mg / cm ^2	Negative
2362	Wall	Drywall	D	POOR	White	FLH	RH	First	206	0	mg / cm ^2	Negative
2363	Door Jamb	Metal	D	GOOD	White	FLH	RH	First	206	0	mg / cm ^2	Negative
2364	Door Jamb	Metal	D	GOOD	White	FLH	RH	First	206	0	mg / cm ^2	Negative
2365	Door Casing	Wood	D	GOOD	STAIN	FLH	RH	First	206	0	mg / cm ^2	Negative
2366	Door Casing	Wood	D	GOOD	STAIN	FLH	RH	First	206	0	mg / cm ^2	Negative
2367	Wall	Drywall	A	POOR	White	FLH	RH	First	205	0	mg / cm ^2	Negative
2368	Wall	Drywall	A	POOR	White	FLH	RH	First	205	0	mg / cm ^2	Negative
2369	Wall	Drywall	B	POOR	White	FLH	RH	First	205	0	mg / cm ^2	Negative
2370	Wall	Drywall	B	POOR	White	FLH	RH	First	205	0	mg / cm ^2	Negative
2371	Wall	Plaster	B	POOR	White	FLH	RH	First	205	0.16	mg / cm ^2	Negative
2372	Wall	Plaster	B	POOR	White	FLH	RH	First	205	0.1	mg / cm ^2	Negative
2373	Window Sill	Metal	B	POOR	White	FLH	RH	First	205	0.4	mg / cm ^2	Negative
2374	Window Sill	Metal	B	POOR	White	FLH	RH	First	205	0.11	mg / cm ^2	Negative
2375	Window Sill	Metal	B	POOR	White	FLH	RH	First	205	0.24	mg / cm ^2	Negative
2376	Door Jamb	Metal	D	GOOD	White	FLH	RH	First	205	0	mg / cm ^2	Negative
2377	Door Jamb	Metal	D	GOOD	White	FLH	RH	First	205	0	mg / cm ^2	Negative
2378	Wall	Drywall	C	POOR	Blue	FLH	RH	First	204	0.01	mg / cm ^2	Negative
2379	Wall	Drywall	D	POOR	Blue	FLH	RH	First	204	0.17	mg / cm ^2	Negative
2380	Door Jamb	Metal	D	GOOD	Blue	FLH	RH	First	204	0	mg / cm ^2	Negative
2381	Door Jamb	Metal	D	GOOD	Blue	FLH	RH	First	204	0	mg / cm ^2	Negative
2382	Wall	Drywall	A	POOR	White	FLH	RH	First	202	0	mg / cm ^2	Negative
2383	Wall	Plaster	B	POOR	White	FLH	RH	First	202	0	mg / cm ^2	Negative
2384	Wall	Plaster	C	POOR	White	FLH	RH	First	202	0.13	mg / cm ^2	Negative
2385	Door	Wood	A	GOOD	STAIN	FLH	RH	First	202	0.05	mg / cm ^2	Negative
2386	Door	Wood	D	GOOD	STAIN	FLH	RH	First	202	0	mg / cm ^2	Negative
2387	Door Jamb	Metal	D	GOOD	White	FLH	RH	First	202	0	mg / cm ^2	Negative
2388	Door Jamb	Metal	D	GOOD	White	FLH	RH	First	202	0	mg / cm ^2	Negative
2389	Wall	Drywall	B	GOOD	White	FLH	RH	First	203	0	mg / cm ^2	Negative

2390	Wall	Plaster	B	GOOD	White	FLH	RH	First	203	0.09	mg / cm ^2	Negative
2391	Wall	Drywall	C	POOR	White	FLH	RH	First	203	5.6	mg / cm ^2	Positive
2392	Wall	Drywall	D	POOR	White	FLH	RH	First	203	0	mg / cm ^2	Negative
2393	Wall	Plaster	A	POOR	White	FLH	RH	First	207	0.24	mg / cm ^2	Negative
2394	Wall	Plaster	B	POOR	White	FLH	RH	First	207	0.25	mg / cm ^2	Negative
2395	Wall	Plaster	C	POOR	White	FLH	RH	First	207	0.29	mg / cm ^2	Negative
2396	Wall	Plaster	D	POOR	White	FLH	RH	First	207	0.29	mg / cm ^2	Negative
2397	Ceiling	Drywall	UPER	POOR	White	FLH	RH	First	207	0.14	mg / cm ^2	Negative
2398	Door	Wood	A	GOOD	STAIN	FLH	RH	First	207	0.02	mg / cm ^2	Negative
2399	Door	Wood	B	GOOD	White	FLH	RH	First	207	0	mg / cm ^2	Negative
2400	Door	Metal	C	GOOD	White	FLH	RH	First	207	0	mg / cm ^2	Negative
2401	STAIR EDGING	Metal	LOWER	GOOD	Brown	FLH	RH	First	207	5.8	mg / cm ^2	Positive
2402	Floor	Concrete	LOWER	POOR	Grey	FLH	RH	First	207	0.09	mg / cm ^2	Negative
2403	Wall	Drywall	A	POOR	White	FLH	RH	First	201	0.13	mg / cm ^2	Negative
2404	Wall	Plaster	C	POOR	White	FLH	RH	First	201	0.11	mg / cm ^2	Negative
2405	Wall	Plaster	D	POOR	White	FLH	RH	First	201	0.16	mg / cm ^2	Negative
2406	Window Sill	Metal	D	POOR	White	FLH	RH	First	201	0.4	mg / cm ^2	Negative
2407	Wall	Drywall	B	POOR	Blue	FLH	RH	First	200	0	mg / cm ^2	Negative
2408	Wall	Drywall	C	POOR	Blue	FLH	RH	First	200	0	mg / cm ^2	Negative
2409	Wall	Drywall	D	POOR	Blue	FLH	RH	First	200	0.11	mg / cm ^2	Negative
2410	Window Sill	Metal	D	POOR	White	FLH	RH	First	200	0.06	mg / cm ^2	Negative
2411	Window	Metal	D	POOR	SILVER	FLH	RH	First	200	0	mg / cm ^2	Negative
2412	Wall	Drywall	A	POOR	White	FLH	RH	First	198	0	mg / cm ^2	Negative
2413	Wall	Drywall	B	POOR	White	FLH	RH	First	198	0.4	mg / cm ^2	Negative
2414	Wall	Drywall	C	POOR	White	FLH	RH	First	198	0.01	mg / cm ^2	Negative
2415	Wall	Drywall	D	POOR	White	FLH	RH	First	198	0	mg / cm ^2	Negative
2416	Door	Wood	B	GOOD	STAIN	FLH	RH	First	198	0	mg / cm ^2	Negative
2417	Door Jamb	Wood	B	GOOD	STAIN	FLH	RH	First	198	0.02	mg / cm ^2	Negative
2418	Door Jamb	Wood	B	GOOD	STAIN	FLH	RH	First	198	0.02	mg / cm ^2	Negative
2419	Wall	Drywall	B	POOR	Yellow	FLH	RH	First	199	0	mg / cm ^2	Negative
2420	Wall	Plaster	D	POOR	Yellow	FLH	RH	First	199	0.5	mg / cm ^2	Negative
2421	RADIATOR HOUSING	Metal	D	POOR	White	FLH	RH	First	199	0.14	mg / cm ^2	Negative
2422	Window Sill	Metal	D	POOR	Yellow	FLH	RH	First	199	0.14	mg / cm ^2	Negative
2423	Window	Metal	D	POOR	SILVER	FLH	RH	First	199	0	mg / cm ^2	Negative

2424	Window	Metal	D	POOR	SILVER	FLH	RH	First	197	0	mg / cm ^2	Negative
2425	Wall	Drywall	B	POOR	Yellow	FLH	RH	First	197	0	mg / cm ^2	Negative
2426	Wall	Drywall	B	POOR	Yellow	FLH	RH	First	197	0	mg / cm ^2	Negative
2427	Wall	Drywall	C	POOR	Yellow	FLH	RH	First	197	0	mg / cm ^2	Negative
2428	Wall	Drywall	C	POOR	Yellow	FLH	RH	First	197	-0.4	mg / cm ^2	Negative
2429	Wall	Drywall	B	POOR	White	FLH	RH	First	196	0.13	mg / cm ^2	Negative
2430	Wall	Plaster	D	POOR	White	FLH	RH	First	196	0.1	mg / cm ^2	Negative
2431	Wall	Wood	B	POOR	Red	FLH	RH	First	195	0.08	mg / cm ^2	Negative
2432	Wall	Wood	C	POOR	Red	FLH	RH	First	195	0.11	mg / cm ^2	Negative
2433	Wall	Wood	D	POOR	Red	FLH	RH	First	195	0	mg / cm ^2	Negative
2434	Wall	Drywall	A	POOR	White	FLH	RH	First	194	0.03	mg / cm ^2	Negative
2435	Wall	Drywall	B	POOR	White	FLH	RH	First	194	0.16	mg / cm ^2	Negative
2436	Wall	Drywall	D	POOR	White	FLH	RH	First	194	0.09	mg / cm ^2	Negative
2437	Window Sill	Metal	D	POOR	White	FLH	RH	First	194	0.04	mg / cm ^2	Negative
2438	Window	Metal	D	POOR	SILVER	FLH	RH	First	194	-0.09	mg / cm ^2	Negative
2439	Door Jamb	Wood	B	GOOD	STAIN	FLH	RH	First	194	0	mg / cm ^2	Negative
2440	Door Jamb	Wood	B	GOOD	STAIN	FLH	RH	First	194	0	mg / cm ^2	Negative
2441	Wall	Drywall	B	POOR	White	FLH	RH	First	193	0	mg / cm ^2	Negative
2442	Wall	Drywall	B	POOR	White	FLH	RH	First	193	0	mg / cm ^2	Negative
2443	Wall	Drywall	B	POOR	White	FLH	RH	First	193	0.3	mg / cm ^2	Negative
2444	Wall	Drywall	C	POOR	White	FLH	RH	First	193	0.4	mg / cm ^2	Negative
2445	Wall	Drywall	D	POOR	White	FLH	RH	First	193	0	mg / cm ^2	Negative
2446	Wall	Drywall	D	POOR	White	FLH	RH	First	193	0.03	mg / cm ^2	Negative
2447	Wall	Drywall	D	POOR	White	FLH	RH	First	193	0.14	mg / cm ^2	Negative
2448	Wall	Drywall	B	POOR	Red	FLH	RH	First	193	0.2	mg / cm ^2	Negative
2449	Wall	Drywall	B	POOR	Red	FLH	RH	First	193	0.25	mg / cm ^2	Negative
2450	Wall	Drywall	C	POOR	Red	FLH	RH	First	193	0.17	mg / cm ^2	Negative
2451	Wall	Drywall	D	POOR	Red	FLH	RH	First	193	0.11	mg / cm ^2	Negative
2452	Wall	Drywall	D	POOR	Red	FLH	RH	First	193	0.18	mg / cm ^2	Negative
2453			alibration Chec			FLH	RH			0	mg / cm ^2	Negative
2454			alibration Chec			FLH	RH			1.1	mg / cm ^2	Positive
2455			alibration Chec			FLH	RH			1.8	mg / cm ^2	Positive
2456			alibration Chec			FLH	RH			3.6	mg / cm ^2	Positive
2458			alibration Chec			FLH	RH			0	mg / cm ^2	Negative

2461			alibration Chec			FLH	RH			1.2	mg / cm ^2	Positive
2462			alibration Chec			FLH	RH			1.5	mg / cm ^2	Positive
2463			alibration Chec			FLH	RH			5.3	mg / cm ^2	Positive
2464			alibration Chec			FLH	RH			4.1	mg / cm ^2	Positive
2465			alibration Chec			FLH	RH			4.3	mg / cm ^2	Positive
2466	Wall	Drywall	A	POOR	White	FLH	RH	Basement	28	0.04	mg / cm ^2	Negative
2467	Wall	Plaster	B	POOR	White	FLH	RH	Basement	28	0.14	mg / cm ^2	Negative
2468	Wall	Plaster	C	POOR	White	FLH	RH	Basement	28	0.07	mg / cm ^2	Negative
2469	Wall	Drywall	D	POOR	White	FLH	RH	Basement	28	0.13	mg / cm ^2	Negative
2470	Wall	Wood	B	POOR	White	FLH	RH	Basement	28	0.01	mg / cm ^2	Negative
2471	Door Jamb	Wood	D	GOOD	STAIN	FLH	RH	Basement	28	0.04	mg / cm ^2	Negative
2472	Door Jamb	Wood	D	GOOD	STAIN	FLH	RH	Basement	28	0.03	mg / cm ^2	Negative
2473	Wall	Drywall	A	POOR	White	FLH	RH	Basement	29	0.19	mg / cm ^2	Negative
2474	Wall	Drywall	B	POOR	White	FLH	RH	Basement	29	0.6	mg / cm ^2	Negative
2475	Floor	Concrete	B	POOR	Grey	FLH	RH	Basement	28	0.05	mg / cm ^2	Negative
2476	Wall	Drywall	C	POOR	White	FLH	RH	Basement	29	0.06	mg / cm ^2	Negative
2477	Wall	Plaster	C	POOR	White	FLH	RH	Basement	29	0.2	mg / cm ^2	Negative
2478	Door Jamb	Wood	A	POOR	White	FLH	RH	Basement	29	0.12	mg / cm ^2	Negative
2479	Door Jamb	Wood	A	POOR	White	FLH	RH	Basement	29	0.12	mg / cm ^2	Negative
2480	Closet Shelf	Wood	A	POOR	White	FLH	RH	Basement	29	0.01	mg / cm ^2	Negative
2482	WALK IN	Plaster	A	POOR	White	FLH	RH	Basement	29	0.24	mg / cm ^2	Negative
2483	WALK IN	Plaster	A	POOR	White	FLH	RH	Basement	29	0	mg / cm ^2	Negative
2484	Wall	Drywall	A	POOR	Yellow	FLH	RH	Basement	1	0.04	mg / cm ^2	Negative
2485	Wall	Plaster	B	POOR	Yellow	FLH	RH	Basement	1	0.05	mg / cm ^2	Negative
2486	Wall	Plaster	C	POOR	White	FLH	RH	Basement	1	0.6	mg / cm ^2	Negative
2487	Floor	Concrete	LOWER	POOR	Grey	FLH	RH	Basement	1	0.12	mg / cm ^2	Negative
2488	Cabinet	Wood	B	POOR	Yellow	FLH	RH	Basement	1	0.08	mg / cm ^2	Negative
2489	Cabinet	Wood	B	POOR	Yellow	FLH	RH	Basement	1	0.08	mg / cm ^2	Negative
2490	Cabinet	Wood	B	POOR	Yellow	FLH	RH	Basement	1	0.21	mg / cm ^2	Negative
2491	I-BEAM	Metal	UPPER	GOOD	Orange	FLH	RH	Basement	1	3.3	mg / cm ^2	Positive
2492	I-BEAM	Metal	UPPER	GOOD	Orange	FLH	RH	Basement	1	2.7	mg / cm ^2	Positive
2493	Wall	Drywall	A	POOR	White	FLH	RH	Basement	2	0	mg / cm ^2	Negative
2494	Wall	Drywall	B	POOR	White	FLH	RH	Basement	2	0.26	mg / cm ^2	Negative
2495	Wall	Plaster	C	POOR	White	FLH	RH	Basement	2	0.11	mg / cm ^2	Negative

2496	Wall	Plaster	D	POOR	White	FLH	RH	Basement	2	0.1	mg / cm ^2	Negative
2497	Ceiling	Drywall	UPPER	POOR	White	FLH	RH	Basement	2	0.07	mg / cm ^2	Negative
2499	FUMEHOOD	Drywall	UPPER	POOR	White	FLH	RH	Basement	2	0.4	mg / cm ^2	Negative
2500	FUMEHOOD	Drywall	UPPER	POOR	White	FLH	RH	Basement	2	0.26	mg / cm ^2	Negative
2501	Window	Wood	A	GOOD	White	FLH	RH	Basement	2	0	mg / cm ^2	Negative
2502	Door Casing	Wood	A	GOOD	White	FLH	RH	Basement	2	0	mg / cm ^2	Negative
2503	SINK	CERAMIC	B	GOOD	White	FLH	RH	Basement	2	0.08	mg / cm ^2	Negative
2504	DUMBWAITER	Metal	D	GOOD	White	FLH	RH	Basement	2	0.08	mg / cm ^2	Negative
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2507	Hatch Door	Metal	C	GOOD	White	FLH	RH	Basement	2	0	mg / cm ^2	Negative
2508	Hatch Door	Metal	C	GOOD	White	FLH	RH	Basement	2	0.04	mg / cm ^2	Negative
2509	Wall	Drywall	A	GOOD	White	FLH	RH	Basement	2	0.16	mg / cm ^2	Negative
2510	Wall	Drywall	B	GOOD	White	FLH	RH	Basement	2	0.04	mg / cm ^2	Negative
2511	Wall	Plaster	C	GOOD	White	FLH	RH	Basement	2	0.5	mg / cm ^2	Negative
2513	Wall	Drywall	D	GOOD	White	FLH	RH	Basement	2	0.18	mg / cm ^2	Negative
2514	DUMBWAITER	Metal	B	GOOD	White	FLH	RH	Basement	2	0.14	mg / cm ^2	Negative
2515	DUMBWAITER	Metal	B	GOOD	White	FLH	RH	Basement	2	0	mg / cm ^2	Negative
2516	DUMBWAITER	Metal	B	GOOD	White	FLH	RH	Basement	2	0.08	mg / cm ^2	Negative
2517	DUMBWAITER	Metal	B	GOOD	White	FLH	RH	Basement	2	0.06	mg / cm ^2	Negative
2518	Floor TILE	CERAMIC	LOWER	GOOD	White	FLH	RH	Basement	2	0.01	mg / cm ^2	Negative
2519	Door	Wood	D	GOOD	STAIN	FLH	RH	Basement	2	0.05	mg / cm ^2	Negative
2520	Door Jamb	Wood	D	GOOD	STAIN	FLH	RH	Basement	2	0	mg / cm ^2	Negative
2521	Door Jamb	Wood	A	GOOD	STAIN	FLH	RH	Basement	2	0.06	mg / cm ^2	Negative
2522	Door Jamb	Wood	A	GOOD	STAIN	FLH	RH	Basement	2	0	mg / cm ^2	Negative
2523	Door	Wood	A	GOOD	STAIN	FLH	RH	Basement	2	0.01	mg / cm ^2	Negative
2524	Wall	Plaster	A	GOOD	Blue	FLH	RH	Basement	30	0.1	mg / cm ^2	Negative
2525	Wall	Drywall	B	GOOD	Blue	FLH	RH	Basement	30	0.08	mg / cm ^2	Negative
2526	Wall	Drywall	C	GOOD	Blue	FLH	RH	Basement	30	0	mg / cm ^2	Negative
2527	Wall	Drywall	D	GOOD	Blue	FLH	RH	Basement	30	0	mg / cm ^2	Negative
2528	Door Jamb	Wood	D	GOOD	White	FLH	RH	Basement	30	0	mg / cm ^2	Negative
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2530	Window	Wood	C	GOOD	White	FLH	RH	Basement	30	0	mg / cm ^2	Negative
2531	Window Casing	Wood	C	GOOD	White	FLH	RH	Basement	30	0	mg / cm ^2	Negative

2532	Window	Wood	D	GOOD	STAIN	FLH	RH	Basement	30	0.01	mg / cm ^2	Negative
2533	Window	Wood	D	GOOD	STAIN	FLH	RH	Basement	30	0	mg / cm ^2	Negative
2534	Hatch Door	Metal	UPPER	GOOD	White	FLH	RH	Basement	30	0.01	mg / cm ^2	Negative
2535	PIPE	Metal	UPPER	GOOD	White	FLH	RH	Basement	30	0.03	mg / cm ^2	Negative
2536	PIPE	Metal	UPPER	GOOD	White	FLH	RH	Basement	30	0.6	mg / cm ^2	Negative
2537	Wall	Drywall	A	POOR	Yellow	FLH	RH	Basement	4	0.5	mg / cm ^2	Negative
2538	Wall	Drywall	A	POOR	Yellow	FLH	RH	Basement	4	0.22	mg / cm ^2	Negative
2539	Wall	Drywall	B	POOR	Yellow	FLH	RH	Basement	4	0	mg / cm ^2	Negative
2540	Wall	Plaster	C	POOR	Yellow	FLH	RH	Basement	4	0.2	mg / cm ^2	Negative
2541	Wall	Drywall	D	POOR	Yellow	FLH	RH	Basement	4	0.3	mg / cm ^2	Negative
2542	Wall	Drywall	D	POOR	Yellow	FLH	RH	Basement	4	0.3	mg / cm ^2	Negative
2543	Hatch Door	Metal	A	GOOD	Grey	FLH	RH	Basement	4	0.01	mg / cm ^2	Negative
2544	Hatch Door	Wood	C	GOOD	Green	FLH	RH	Basement	4	0.07	mg / cm ^2	Negative
2545	Hatch Door	Wood	C	GOOD	Yellow	FLH	RH	Basement	4	0.07	mg / cm ^2	Negative
2546	COLUMN	Plaster	CENTER	POOR	White	FLH	RH	Basement	4	0	mg / cm ^2	Negative
2547	COLUMN	Plaster	CENTER	POOR	White	FLH	RH	Basement	4	0.6	mg / cm ^2	Negative
2548	Door	Wood	A	GOOD	STAIN	FLH	RH	Basement	4	0	mg / cm ^2	Negative
2549	Door Jamb	Wood	A	GOOD	STAIN	FLH	RH	Basement	4	0.05	mg / cm ^2	Negative
2550	Door Jamb	Wood	A	GOOD	STAIN	FLH	RH	Basement	4	0.11	mg / cm ^2	Negative
2551	Wall	Plaster	A	GOOD	White	FLH	RH	Basement	27	0.19	mg / cm ^2	Negative
2552	Wall	Plaster	B	GOOD	White	FLH	RH	Basement	27	0.16	mg / cm ^2	Negative
2553	Wall	Plaster	C	GOOD	White	FLH	RH	Basement	27	0.08	mg / cm ^2	Negative
2555	Wall	Plaster	D	GOOD	White	FLH	RH	Basement	27	0.2	mg / cm ^2	Negative
2557	Hatch Door	Wood	B	GOOD	White	FLH	RH	Basement	27	0.8	mg / cm ^2	Negative
2558	Hatch Door	Wood	B	GOOD	Green	FLH	RH	Basement	27	0.5	mg / cm ^2	Negative
2559	Ceiling	Plaster	UPPER	GOOD	White	FLH	RH	Basement	27	0.05	mg / cm ^2	Negative
2560	Door	Wood	D	GOOD	STAIN	FLH	RH	Basement	27	0	mg / cm ^2	Negative
2561	Door Jamb	Metal	D	GOOD	White	FLH	RH	Basement	27	0	mg / cm ^2	Negative
2562	Door Jamb	Metal	D	GOOD	White	FLH	RH	Basement	27	0	mg / cm ^2	Negative
2563	Wall	Drywall	A	GOOD	White	FLH	RH	Basement	19	0	mg / cm ^2	Negative
2564	Wall	Drywall	A	GOOD	White	FLH	RH	Basement	19	0.3	mg / cm ^2	Negative
2565	Wall	Drywall	B	GOOD	White	FLH	RH	Basement	19	0.3	mg / cm ^2	Negative
2566	Wall	Drywall	B	GOOD	White	FLH	RH	Basement	19	0.6	mg / cm ^2	Negative
2567	Wall	Drywall	C	GOOD	White	FLH	RH	Basement	19	0.3	mg / cm ^2	Negative

2568	Wall	Drywall	C	GOOD	White	FLH	RH	Basement	19	0.4	mg / cm ^2	Negative
2569	ELECTRICAL PANELS	Metal	A	GOOD	Grey	FLH	RH	Basement	19	0.01	mg / cm ^2	Negative
2570	ELECTRICAL PANELS	Metal	A	GOOD	Grey	FLH	RH	Basement	19	0	mg / cm ^2	Negative
2571	FIRE HOSE HOUSING	Metal	A	GOOD	Red	FLH	RH	Basement	19	0.22	mg / cm ^2	Negative
2572	FIRE HOSE HOUSING	Metal	A	GOOD	Yellow	FLH	RH	Basement	19	0.21	mg / cm ^2	Negative
2573	Wall	Drywall	A	GOOD	White	FLH	RH	Basement	13	0	mg / cm ^2	Negative
2574	Wall	Drywall	A	GOOD	White	FLH	RH	Basement	13	0	mg / cm ^2	Negative
2575	Wall	Drywall	C	GOOD	White	FLH	RH	Basement	13	0.4	mg / cm ^2	Negative
2476			alibration Chec			FLH	RH			0	mg / cm ^2	Negative
2477			alibration Chec			FLH	RH			1.1	mg / cm ^2	Positive
2478			alibration Chec			FLH	RH			1.8	mg / cm ^2	Positive
2479			alibration Chec			FLH	RH			3.6	mg / cm ^2	Positive

ATTACHMENT F

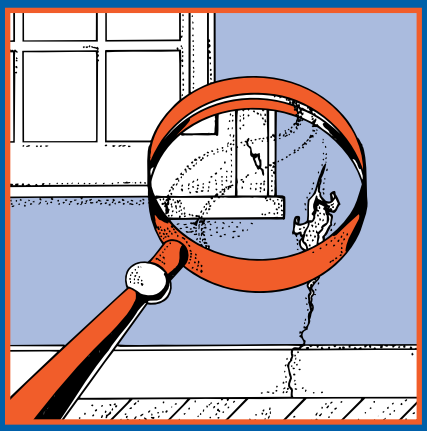
Educational Information for Landlords

Simple Steps To Protect Your Family From Lead Hazards

If you think your home has high levels of lead:

- Get your young children tested for lead, even if they seem healthy.
- Wash children's hands, bottles, pacifiers, and toys often.
- Make sure children eat healthy, low-fat foods.
- Get your home checked for lead hazards.
- Regularly clean floors, window sills, and other surfaces.
- Wipe soil off shoes before entering house.
- Talk to your landlord about fixing surfaces with peeling or chipping paint.
- Take precautions to avoid exposure to lead dust when remodeling or renovating (call 1-800-424-LEAD for guidelines).
- Don't use a belt-sander, propane torch, high temperature heat gun, scraper, or sandpaper on painted surfaces that may contain lead.
- Don't try to remove lead-based paint yourself.

Recycled/Recyclable
Printed with vegetable oil based inks on recycled paper (minimum 50% postconsumer) process chlorine free.



Protect Your Family From Lead In Your Home

EPA United States Environmental Protection Agency

United States Consumer Product Safety Commission

United States Department of Housing and Urban Development

Are You Planning To Buy, Rent, or Renovate a Home Built Before 1978?

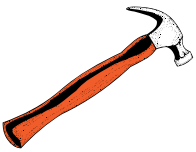
Many houses and apartments built before 1978 have paint that contains high levels of lead (called lead-based paint). Lead from paint, chips, and dust can pose serious health hazards if not taken care of properly.

OWNERS, BUYERS, and RENTERS are encouraged to check for lead (see page 6) before renting, buying or renovating pre-1978 housing.

Federal law requires that individuals receive certain information before renting, buying, or renovating pre-1978 housing:

LANDLORDS have to disclose known information on lead-based paint and lead-based paint hazards before leases take effect. Leases must include a disclosure about lead-based paint.

SELLERS have to disclose known information on lead-based paint and lead-based paint hazards before selling a house. Sales contracts must include a disclosure about lead-based paint. Buyers have up to 10 days to check for lead.



RENOVATORS disturbing more than 2 square feet of painted surfaces have to give you this pamphlet before starting work.

IMPORTANT!

Lead From Paint, Dust, and Soil Can Be Dangerous If Not Managed Properly

FACT: Lead exposure can harm young children and babies even before they are born.

FACT: Even children who seem healthy can have high levels of lead in their bodies.

FACT: People can get lead in their bodies by breathing or swallowing lead dust, or by eating soil or paint chips containing lead.

FACT: People have many options for reducing lead hazards. In most cases, lead-based paint that is in good condition is not a hazard.

FACT: Removing lead-based paint improperly can increase the danger to your family.

If you think your home might have lead hazards, read this pamphlet to learn some simple steps to protect your family.

Lead Gets in the Body in Many Ways

Childhood lead poisoning remains a major environmental health problem in the U.S.

Even children who appear healthy can have dangerous levels of lead in their bodies.

People can get lead in their body if they:

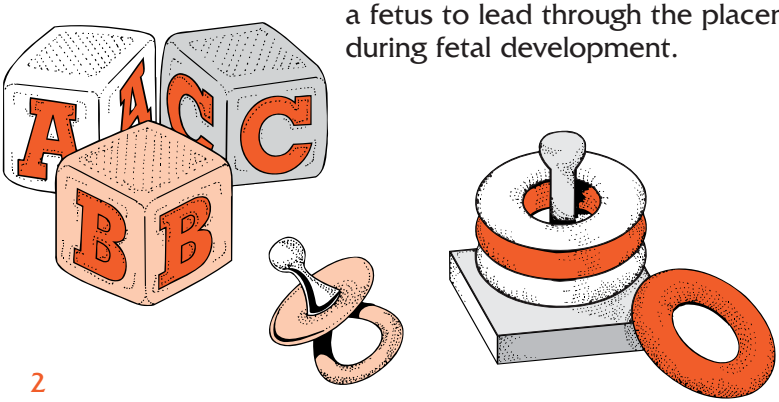
- Breathe in lead dust (especially during renovations that disturb painted surfaces).
- Put their hands or other objects covered with lead dust in their mouths.
- Eat paint chips or soil that contains lead.

Lead is even more dangerous to children under the age of 6:

- At this age children's brains and nervous systems are more sensitive to the damaging effects of lead.
- Children's growing bodies absorb more lead.
- Babies and young children often put their hands and other objects in their mouths. These objects can have lead dust on them.

Lead is also dangerous to women of childbearing age:

- Women with a high lead level in their system prior to pregnancy would expose a fetus to lead through the placenta during fetal development.



Lead's Effects

It is important to know that even exposure to low levels of lead can severely harm children.

In children, lead can cause:

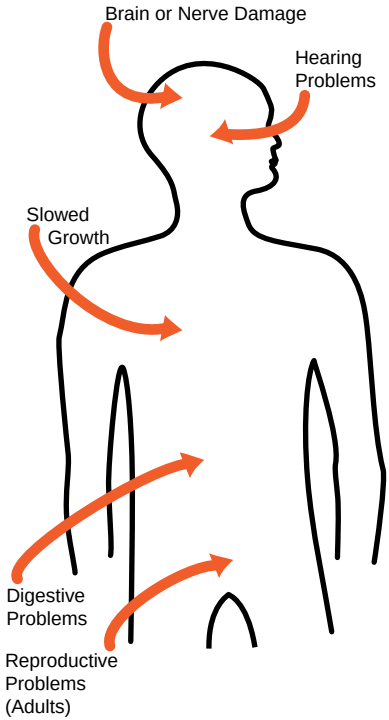
- Nervous system and kidney damage.
- Learning disabilities, attention deficit disorder, and decreased intelligence.
- Speech, language, and behavior problems.
- Poor muscle coordination.
- Decreased muscle and bone growth.
- Hearing damage.

While low-lead exposure is most common, exposure to high levels of lead can have devastating effects on children, including seizures, unconsciousness, and, in some cases, death.

Although children are especially susceptible to lead exposure, lead can be dangerous for adults too.

In adults, lead can cause:

- Increased chance of illness during pregnancy.
- Harm to a fetus, including brain damage or death.
- Fertility problems (in men and women).
- High blood pressure.
- Digestive problems.
- Nerve disorders.
- Memory and concentration problems.
- Muscle and joint pain.



Lead affects the body in many ways.

Where Lead-Based Paint Is Found

In general, the older your home, the more likely it has lead-based paint.

Many homes built before 1978 have lead-based paint. The federal government banned lead-based paint from housing in 1978. Some states stopped its use even earlier. Lead can be found:

- In homes in the city, country, or suburbs.
- In apartments, single-family homes, and both private and public housing.
- Inside and outside of the house.
- In soil around a home. (Soil can pick up lead from exterior paint or other sources such as past use of leaded gas in cars.)

Checking Your Family for Lead

Get your children and home tested if you think your home has high levels of lead.

To reduce your child's exposure to lead, get your child checked, have your home tested (especially if your home has paint in poor condition and was built before 1978), and fix any hazards you may have. Children's blood lead levels tend to increase rapidly from 6 to 12 months of age, and tend to peak at 18 to 24 months of age.

Consult your doctor for advice on testing your children. A simple blood test can detect high levels of lead. Blood tests are usually recommended for:

- Children at ages 1 and 2.
- Children or other family members who have been exposed to high levels of lead.
- Children who should be tested under your state or local health screening plan.

Your doctor can explain what the test results mean and if more testing will be needed.

Identifying Lead Hazards

Lead from paint chips, which you can see, and lead dust, which you can't always see, can both be serious hazards.

Lead-based paint is usually not a hazard if it is in good condition, and it is not on an impact or friction surface, like a window. It is defined by the federal government as paint with lead levels greater than or equal to 1.0 milligram per square centimeter, or more than 0.5% by weight.

Deteriorating lead-based paint (peeling, chipping, chalking, cracking or damaged) is a hazard and needs immediate attention. It may also be a hazard when found on surfaces that children can chew or that get a lot of wear-and-tear, such as:

- Windows and window sills.
- Doors and door frames.
- Stairs, railings, banisters, and porches.

Lead dust can form when lead-based paint is scraped, sanded, or heated. Dust also forms when painted surfaces bump or rub together. Lead chips and dust can get on surfaces and objects that people touch. Settled lead dust can re-enter the air when people vacuum, sweep, or walk through it. The following two federal standards have been set for lead hazards in dust:

- 40 micrograms per square foot ($\mu g/ft^2$) and higher for floors, including carpeted floors.
- 250 $\mu g/ft^2$ and higher for interior window sills.

Lead in soil can be a hazard when children play in bare soil or when people bring soil into the house on their shoes. The following two federal standards have been set for lead hazards in residential soil:

- 400 parts per million (ppm) and higher in play areas of bare soil.
- 1,200 ppm (average) and higher in bare soil in the remainder of the yard.

The only way to find out if paint, dust and soil lead hazards exist is to test for them. The next page describes the most common methods used.

Checking Your Home for Lead

Just knowing that a home has lead-based paint may not tell you if there is a hazard.

You can get your home tested for lead in several different ways:

- A paint **inspection** tells you whether your home has lead-based paint and where it is located. It won't tell you whether or not your home currently has lead hazards.
- A **risk assessment** tells you if your home currently has any lead hazards from lead in paint, dust, or soil. It also tells you what actions to take to address any hazards.
- A combination risk assessment and inspection tells you if your home has any lead hazards and if your home has any lead-based paint, and where the lead-based paint is located.

Hire a trained and certified testing professional who will use a range of reliable methods when testing your home.

- Visual inspection of paint condition and location.
- A portable x-ray fluorescence (XRF) machine.
- Lab tests of paint, dust, and soil samples.

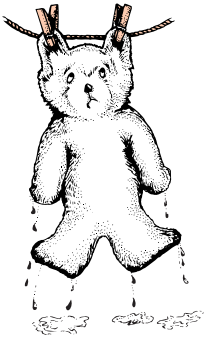
There are state and federal programs in place to ensure that testing is done safely, reliably, and effectively. Contact your state or local agency (see bottom of page 11) for more information, or call **1-800-424-LEAD (5323)** for a list of contacts in your area.

Home test kits for lead are available, but may not always be accurate. Consumers should not rely on these kits before doing renovations or to assure safety.

What You Can Do Now To Protect Your Family

If you suspect that your house has lead hazards, you can take some immediate steps to reduce your family's risk:

- **If you rent, notify your landlord of peeling or chipping paint.**
- **Clean up paint chips immediately.**
- **Clean floors, window frames, window sills, and other surfaces weekly**. Use a mop or sponge with warm water and a general all-purpose cleaner or a cleaner made specifically for lead. REMEMBER: NEVER MIX AMMONIA AND BLEACH PRODUCTS TOGETHER SINCE THEY CAN FORM A DANGEROUS GAS.



- **Thoroughly rinse sponges and mop heads after cleaning dirty or dusty areas**.
- **Wash children's hands often, especially before they eat and before nap time and bed time.**
- **Keep play areas clean.** Wash bottles, pacifiers, toys, and stuffed animals regularly.
- **Keep children from chewing window sills or other painted surfaces.**
- **Clean or remove shoes before entering your home to avoid tracking in lead from soil.**
- **Make sure children eat nutritious, low-fat meals high in iron and calcium,** such as spinach and dairy products. Children with good diets absorb less lead.

Reducing Lead Hazards In The Home

Removing lead improperly can increase the hazard to your family by spreading even more lead dust around the house.

Always use a professional who is trained to remove lead hazards safely.

In addition to day-to-day cleaning and good nutrition:

- You can **temporarily** reduce lead hazards by taking actions such as repairing damaged painted surfaces and planting grass to cover soil with high lead levels. These actions (called "interim controls") are not permanent solutions and will need ongoing attention.
- To **permanently** remove lead hazards, you should hire a certified lead "abatement" contractor. Abatement (or permanent hazard elimination) methods include removing, sealing, or enclosing lead-based paint with special materials. Just painting over the hazard with regular paint is not permanent removal.

Always hire a person with special training for correcting lead problems—someone who knows how to do this work safely and has the proper equipment to clean up thoroughly. Certified contractors will employ qualified workers and follow strict safety rules as set by their state or by the federal government.

Once the work is completed, dust cleanup activities must be repeated until testing indicates that lead dust levels are below the following:

- 40 micrograms per square foot ($\mu g/ft^2$) for floors, including carpeted floors;
- 250 $\mu g/ft^2$ for interior windows sills; and
- 400 $\mu g/ft^2$ for window troughs.

Call your state or local agency (see bottom of page 11) for help in locating certified professionals in your area and to see if financial assistance is available.

Remodeling or Renovating a Home With Lead-Based Paint

Take precautions before your contractor or you begin remodeling or renovating anything that disturbs painted surfaces (such as scraping off paint or tearing out walls):

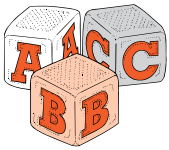
- **Have the area tested for lead-based paint.**
- **Do not use a belt-sander, propane torch, high temperature heat gun, dry scraper, or dry sandpaper** to remove lead-based paint. These actions create large amounts of lead dust and fumes. Lead dust can remain in your home long after the work is done.
- **Temporarily move your family** (especially children and pregnant women) out of the apartment or house until the work is done and the area is properly cleaned. If you can't move your family, at least completely seal off the work area.
- **Follow other safety measures to reduce lead hazards.** You can find out about other safety measures by calling 1-800-424-LEAD. Ask for the brochure "Reducing Lead Hazards When Remodeling Your Home." This brochure explains what to do before, during, and after renovations.

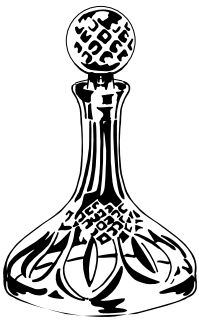
If you have already completed renovations or remodeling that could have released lead-based paint or dust, get your young children tested and follow the steps outlined on page 7 of this brochure.

If not conducted properly, certain types of renovations can release lead from paint and dust into the air.

Other Sources of Lead

While paint, dust, and soil are the most common sources of lead, other lead sources also exist.

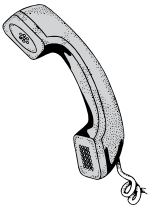




- **Drinking water.** Your home might have plumbing with lead or lead solder. Call your local health department or water supplier to find out about testing your water. You cannot see, smell, or taste lead, and boiling your water will not get rid of lead. If you think your plumbing might have lead in it:
  - Use only cold water for drinking and cooking.
  - Run water for 15 to 30 seconds before drinking it, especially if you have not used your water for a few hours.
- **The job.** If you work with lead, you could bring it home on your hands or clothes. Shower and change clothes before coming home. Launder your work clothes separately from the rest of your family's clothes.
- Old painted **toys** and **furniture.**
- Food and liquids stored in **lead crystal** or **lead-glazed pottery or porcelain.**
- **Lead smelters** or other industries that release lead into the air.
- **Hobbies** that use lead, such as making pottery or stained glass, or refinishing furniture.
- **Folk remedies** that contain lead, such as "greta" and "azarcon" used to treat an upset stomach.

For More Information

The National Lead Information Center

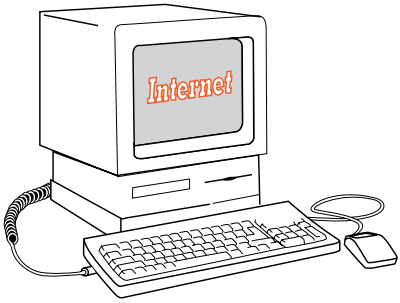


Call **1-800-424-LEAD (424-5323)** to learn how to protect children from lead poisoning and for other information on lead hazards. To access lead information via the web, visit **www.epa.gov/lead** and **www.hud.gov/offices/lead/.**

EPA's Safe Drinking Water Hotline

Call **1-800-426-4791** for information about lead in drinking water.

Consumer Product Safety Commission (CPSC) Hotline



To request information on lead in consumer products, or to report an unsafe consumer product or a product-related injury call **1-800-638-2772**, or visit CPSC's Web site at: **www.cpsc.gov.**

Health and Environmental Agencies

Some cities, states, and tribes have their own rules for lead-based paint activities. Check with your local agency to see which laws apply to you. Most agencies can also provide information on finding a lead abatement firm in your area, and on possible sources of financial aid for reducing lead hazards. Receive up-to-date address and phone information for your local contacts on the Internet at **www.epa.gov/lead** or contact the National Lead Information Center at **1-800-424-LEAD.**

For the hearing impaired, call the Federal Information Relay Service at **1-800-877-8339** to access any of the phone numbers in this brochure.

EPA Regional Offices

Your Regional EPA Office can provide further information regarding regulations and lead protection programs.

EPA Regional Offices

Region 1 (Connecticut, Massachusetts, Maine, New Hampshire, Rhode Island, Vermont)

Regional Lead Contact
U.S. EPA Region 1
Suite 1100 (CPT)
One Congress Street
Boston, MA 02114-2023
1 (888) 372-7341

Region 2 (New Jersey, New York, Puerto Rico, Virgin Islands)

Regional Lead Contact
U.S. EPA Region 2
2890 Woodbridge Avenue
Building 209, Mail Stop 225
Edison, NJ 08837-3679
(732) 321-6671

Region 3 (Delaware, Maryland, Pennsylvania, Virginia, Washington DC, West Virginia)

Regional Lead Contact
U.S. EPA Region 3 (3WC33)
1650 Arch Street
Philadelphia, PA 19103
(215) 814-5000

Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee)

Regional Lead Contact
U.S. EPA Region 4
61 Forsyth Street, SW
Atlanta, GA 30303
(404) 562-8998

Region 5 (Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin)

Regional Lead Contact
U.S. EPA Region 5 (DT-8J)
77 West Jackson Boulevard
Chicago, IL 60604-3666
(312) 886-6003

Region 6 (Arkansas, Louisiana, New Mexico, Oklahoma, Texas)

Regional Lead Contact
U.S. EPA Region 6
1445 Ross Avenue, 12th Floor
Dallas, TX 75202-2733
(214) 665-7577

Region 7 (Iowa, Kansas, Missouri, Nebraska)

Regional Lead Contact
U.S. EPA Region 7
(ARTD-RALI)
901 N. 5th Street
Kansas City, KS 66101
(913) 551-7020

Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming)

Regional Lead Contact
U.S. EPA Region 8
999 18th Street, Suite 500
Denver, CO 80202-2466
(303) 312-6021

Region 9 (Arizona, California, Hawaii, Nevada)

Regional Lead Contact
U.S. Region 9
75 Hawthorne Street
San Francisco, CA 94105
(415) 947-4164

Region 10 (Alaska, Idaho, Oregon, Washington)

Regional Lead Contact
U.S. EPA Region 10
Toxics Section WCM-128
1200 Sixth Avenue
Seattle, WA 98101-1128
(206) 553-1985

CPSC Regional Offices

Your Regional CPSC Office can provide further information regarding regulations and consumer product safety.

Eastern Regional Center
Consumer Product Safety Commission
201 Varick Street, Room 903
New York, NY 10014
(212) 620-4120

Western Regional Center
Consumer Product Safety Commission
1301 Clay Street, Suite 610-N
Oakland, CA 94612
(510) 637-4050

Central Regional Center
Consumer Product Safety Commission
230 South Dearborn Street, Room 2944
Chicago, IL 60604
(312) 353-8260

HUD Lead Office

Please contact HUD's Office of Healthy Homes and Lead Hazard Control for information on lead regulations, outreach efforts, and lead hazard control and research grant programs.

U.S. Department of Housing and Urban Development
Office of Healthy Homes and Lead Hazard Control
451 Seventh Street, SW, P-3206
Washington, DC 20410
(202) 755-1785

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U.S. EPA Washington DC 20460
U.S. CPSC Washington DC 20207
U.S. HUD Washington DC 20410

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