3.1.1.3. Friable/Non-Friable ACM

Friable ACMs are materials that contain more than one percent asbestos and, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure, thereby releasing fibers into the air more readily. In contrast, non-friable ACMs are ACMs that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. Non-friable ACMs are grouped into two categories: Category I and Category II.

3.1.1.4. Regulated Asbestos-Containing Materials (RACM)

Regulated Asbestos-Containing Materials (RACM) include friable ACMs and nonfriable ACMs that, depending on their category, have become friable, have been subjected to specific forms of impact damage, have a high probability of becoming friable, and/or may become friable during removal.

3.1.2. Homogenous Material Numbering Convention

All suspect asbestos materials are assigned a unique homogeneous material number. AHERA identifies three basic material types: Surfacing Materials (SM), which include spray and trowel applied materials, such as fireproofing, ceiling texture, plaster, etc.; Thermal System Insulation (TSI), which includes insulating materials applied to mechanical and plumbing components for temperature preservation and condensation prevention purposes; and Miscellaneous Materials (MM), which includes all other materials, such as floor coverings and mastics, roofing materials, asbestos cement products, and many others. When a homogenous material has multiple layers, individual layers are identified and analyzed separately by laboratory analysis.

3.1.3. Bulk Sampling

Bulk sampling must be performed to determine whether suspect building material contains asbestos. Asbestos bulk sampling for the inspection was conducted in accordance with protocols established by the Asbestos Hazard Emergency Response Act (AHERA) (ref.: 40 CFR 763). Friability of the suspect asbestos-containing materials was determined by touching and/or sampling of the material.

3.1.3.1. Bulk Sample Numbering Convention

Bulk samples are given a sequence number when collected.

3.1.3.2. Polarized Light Microscopy Analysis (PLM)

Bulk samples collected during the inspection were submitted to an EPA accredited laboratory, EMSL Analytical, Inc. (EMSL), located at 200 Route 130 North, Cinnaminson, New Jersey. EMSL was instructed to perform Polarized Light Microscopy (PLM) analysis, utilizing dispersion staining techniques (ref: EPA Method 600/M4-82-020). PLM analysis is the least expensive and most commonly used visual estimate method. While PLM analysis is acceptable to EPA, OSHA, and most states for determining asbestos content, some states now require more sophisticated methods when analyzing certain types of materials.

A total of 50 asbestos bulk samples were collected and submitted for laboratory analysis. PLM Analysis was performed on the 50 samples collected, including 23 additional distinct layers (i.e. mastic). Heterogeneous applications are individual layers of different materials contained within a single bulk sampled, each of which must be analyzed individually to determine its asbestos content (e.g. vinyl floor tiles and mastic; cove base and mastic; etc.). Table 1 lists all samples collected and analyzed in the current survey.

Some samples and/or heterogeneous applications may not have been analyzed by the lab if a positive result was obtained from a sample that is among a group of samples representing a suspect material. This process, known as stop on first positive, is followed because if a single sample is found to be positive, that material is determined to be ACM, thus making it unnecessary to analyze any additional samples in the sampling group.

Please refer to the Table 1– Asbestos Material Sampling Table in Appendix A for a complete listing of all materials sampled. The laboratory analytical reports may be found in Appendix D for the current inspection.

3.1.3.3. Quantification Method Analysis

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

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

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

Please refer to section 6.0 Recommendations, for recommendations concerning supplemental analysis.

3.2. Lead-Based Paint Inspection

The LBP inspection included visual identification of homogenous paint applications and X-Ray Fluorescence (XRF) sampling of the paint(s). While the U. S. Department of Housing and Urban Development (HUD) promulgates guidelines for LBP inspections in child occupied facilities, there are no formal guidelines for non-HUD regulated inspections. Thus, the LBP inspection was conducted in accordance with generally accepted industry standards and practices. Additional aspects of the inspection methodology are discussed below.

3.2.1. Key Definitions

3.2.1.1. Homogenous Paint Applications

Homogenous paint applications are significant paint applications that are visually distinct by their color and uniformity. Significant paint applications do not include incidental occurrences of paint such as isolated occurrences of accent trim, artistic paints, etc. While visual inspection alone cannot generally identify sub-layers of paint, these applications are often identified in the XRF analysis.

3.2.1.2. Lead-Based Paint (LBP)

Pursuant to Federal Register, Vol. 61, No. 169, LBP is defined as paint or other surface coatings equal to or greater than 0.5 percent lead by weight or equal to or greater than 1 mg/cm².

3.2.2. Homogenous Paint Applications Numbering Convention

Homogenous paints and coatings are assigned a unique homogeneous material number (HM#). The HM# is referenced throughout the report to uniquely identify each paint application.

3.2.3. Lead-based Paint and Lead Containing Materials Sampling

Sampling of suspected lead-based paint or other suspected lead containing materials was conducted using an X-Ray Fluorescence (XRF) instrument for the paint applications and materials identified. A total of 89 lead-based paint readings were taken using the XRF to determine the lead content of materials or painted surfaces.

3.3. Mold Inspection

The Project area was inspected for evidence of moisture intrusion or visible suspected mold.

4. SUMMARY OF INSPECTION FINDINGS

Key findings of the hazardous building materials inspection are summarized below. Please refer to the Appendices for complete details of the inspection findings and supporting documentation.

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4.1. Asbestos Inspection Findings

Below is a summary of the findings of the asbestos inspection:

- Black mastic under 12" x 12" VFT patched area in main lab (50 ft²) The VFT is considered ACM since it is associated with the black mastic present on the underside of the VFT applications. Both VFT and Black Mastic are considered ACM.-
- Black mastic in Rm D20 (Mechanical Room) Not associated with VFT. (44 ft²)

Please refer to Table 1 – Asbestos Sampling Table in Appendix A for a complete listing of all asbestos sampling.

4.2. Lead Paint Inspection Findings

Below is a summary of the findings of the lead-based paint inspection:

- LBP, brown, is present is present on exterior hand railings, near the entrance of the below grade mechanical room. (Approximately 150 linear ft.)
- LBP, brown, is present on decorative grates within the brick on exterior of the first floor of the building. (15 sq. ft.)
- LBP, white is present on top plate of 11 exterior windows (44 sq. ft.)
- LBP, brown, is present is present on interior hand railings on stairs leading to the tunnel. (Approximately 25 linear ft.)
- LBP, brown, is present on stairs leading to the tunnel. (100 sq. ft.)
- LBP, gray, is present on a ladder in the tunnel. (1 each)
- LBP, white, is present on window sills in the interior windows of the Inspection Area. (50 sq. ft.)

Please refer to Table 2 – Lead Paint Sampling Table in Appendix A for a complete listing of all lead-based paint sampling.

4.3. Mold & Water Intrusion Inspection Findings

No suspected mold was observed in the Inspection Area.

5. RISKS AND HAZARDS

5.1. Asbestos

To be a significant health concern, asbestos fibers must be inhaled. When asbestos fibers are inhaled, they become lodged in the lung tissue or alveoli. Here they clog and scar the tissues, causing the walls of the alveoli to lose their elasticity and useful function in respiration. Asbestosis (scarring of the lung), lung cancer, and Mesothelioma (cancer of the lining of the chest or lining of the abdominal wall) are diseases associated with asbestos exposure. Risks and hazards increase with increased exposure. ACM condition, proximity to building occupants, building use, and other factors can influence the potential for asbestos fibers to become airborne, and therefore increase exposure risks.

5.2. Lead-Based Paint

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

Lead in the body can cause serious damage to the central and peripheral nervous system, the cardiovascular system, and the kidneys. Exposure to high concentrations of lead can cause retardation, convulsions, coma, and sometimes death. Children are especially vulnerable and susceptible to lead poisoning. Even low levels of exposure persisting during childhood are known to slow a child's normal development and cause learning and behavioral problems. Exposure to lead can result from deteriorating surfaces and activities mechanically impacting lead surfaces. Preventing exposure requires proper work practices, monitoring, disposal and personal protective equipment during demolition, alteration and friction producing activities.

5.3. Mold

Molds have the potential to cause health problems in some individuals. Molds produce allergens (substances that can cause allergic reactions), irritants, and in some cases, potentially toxic substances (mycotoxins). Inhaling or touching mold or mold spores may cause allergic reactions in sensitive individuals. Allergic responses include hay fever-type symptoms, such as sneezing, runny nose, red eyes, and skin rash (dermatitis). Allergic reactions to mold are common and can be immediate or delayed. Molds can also cause asthma attacks in people with asthma who are allergic to mold.

6. Recommendations

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

6.1. General Recommendations

6.1.1. Asbestos

State and/or federal regulations require that ACMs be removed prior to demolition or renovation activities that will impact the ACMs. Depending on the specific renovation work to be performed, certain ACMs may not require removal if they will not be disturbed and do not pose a risk to building occupants or construction trade workers. However, to ensure worker safety and to eliminate future asbestos-related maintenance and management costs and risks, AMIE recommends removal of all identified ACMs in the areas to be renovated. While partial abatement may be technically possible, it is often impractical and not cost-effective.

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

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6.1.2. Lead-Based Paint and Lead Containing Materials

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

Based on the initial lead paint testing results, AMIE recommends TCLP testing be conducted on the existing building materials, painted and unpainted, prior to the start of renovation or demolition activity. In addition, trade contractors who work in the facility should also be notified of the presence of lead so that they can appropriately monitor and protect their workers against lead exposure.

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

6.1.3. Mold

No suspected mold was observed in the Inspection Area.

6.2. Hazardous Conditions Recommendations

No hazardous conditions, from hazardous materials, were observed in the building during the inspection.

6.3. Point Count Analysis / TEM Chatfield Analysis Recommendations

AMIE does not recommend Point Count or TEM Chatfield analysis of any of the ACMs identified.

7. REGULATORY REQUIREMENTS

7.1. Asbestos-Containing Materials

The removal and disposal of ACMs is regulated at the federal, state, and, sometimes, local level. While some states have developed their own regulatory standards for the various asbestos disciplines, many states have adopted the federal standards but have established licensing requirements and enforcement authority at the state level.

7.1.1. Notification Requirements

EPA's NESHAP regulation, 40 CFR, Subpart M, 61.145, Standard for Demolition and Renovation, stipulates that an owner of a facility submit proper notification with either the EPA's regional office and/or the state and local regulatory agency of intention to demolish or renovate. Notifications must be received by the appropriate regulatory agencies 10 working days prior to commencement of asbestos stripping or removal, or other site work. If the demolition or renovation date changes, or the scope of work is increased, another notification is required.

7.1.2. Asbestos Removal Requirements

Asbestos removal must be performed by a licensed abatement contractor. The contractor should follow all work practices, worker protection, and disposal requirements set forth in the contract specifications and by the Occupational Safety and Health Administration (OSHA) and the EPA. Key federal regulations concerning asbestos include 29 CFR 1910.1001, 29 CFR 1926.1101, 40 CFR Part 61, Subpart M, and 40 CFR 763.

7.1.3. OSHA Regulation of ≤ 1 Percent Asbestos

While EPA and many states do not regulate materials containing one percent or less asbestos, OSHA regulates materials containing any amount of asbestos. (Ref. OSHA Construction Industry Standard, 29 CFR 1926.1101(a)(3))

7.1.4. State of South Dakota Asbestos Removal Regulations

Asbestos Containing Building Material (ACBM) should only be removed by licensed and accredited contractors in the State of South Dakota.

7.2. Lead Waste

7.2.1. Disposal Requirements

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

7.2.2. Construction Requirements

OSHA's 29 CFR 1926.62 regulates worker exposure to lead during construction activities that include demolition or salvage of structures where lead or materials containing lead are present, as well as removal or encapsulation of lead-containing materials. The standard establishes maximum limits of exposure to lead, including a permissible exposure limit and action level, and should be adhered to during construction and demolition activities.

Table 1. Asbestos Material Sampling Results Asbestos Containing Materials (ACM) = >1% Asbestos

Homogeneous Area	Sample No.	Photo No.	Description	Color	Material Location	Asbestos Content	Estimated Quantity	Comments
1	1	1	Mastic	Gray	Below Grade Mech. Room	None Detected	Quantity	
1	2	2	Mastic	Gray	Below Grade Mech. Room	None Detected		
2	3	3	EFIS	Gray	Below Grade Mech. Room	None Detected		
2	4	4	EFIS	Gray	Below Grade Mech. Room	None Detected		
2	5	5	EFIS	Gray	Below Grade Mech. Room	None Detected		
3	6	6	Tar behind EFIS	Black	Below Grade Mech. Room	None Detected		
3	7	7	Tar behind EFIS	Black	Below Grade Mech. Room	None Detected		
4	8	8	Caulk	White	Mech. Room Entry	None Detected		
4	9	9	Caulk	White	Mech. Room Entry	None Detected		
5	10	10	Window Caulk	Gray	Windows-Exterior	None Detected		
5	11	11	Window Caulk	Gray	Windows-Exterior	None Detected		
6	12	12	Concrete Caulk	Gray	Exterior	None Detected		
6	13	13	Concrete Caulk	Gray	Exterior	None Detected		
7	14	14	Vertical Joint Caulk	Gray	Exterior	None Detected		
7	15	15	Vertical Joint Caulk	Gray	Exterior	None Detected		
8	16	16	Debris	N/A	Floor of Tunnel	None Detected		
8	17	17	Debris	N/A	Floor of Tunnel	None Detected		
9	18	18	Ceiling Tile 2x2	White	Rm D17	None Detected		
9	19	19	Ceiling Tile 2x2	White	Rm D17	None Detected		
10	20	20	Drywall	White	Rm D17	None Detected		
11	20A	20	Joint Compound	White	Rm D17	None Detected		
10	21	21	Drywall	White	Rm D17	None Detected		
11	21A	21	Joint Compound	White	Rm D17	None Detected		
12	22	22	Window Caulk	Black	Lab	None Detected		
12	23	23	Window Caulk	Black	D17	None Detected		
13	24	24	Ceiling Tile 2x2	White	Hallway	None Detected		
14	25	25	Base Cove Mastic	Yellow	Rm D21	None Detected		
14	26	26	Base Cove Mastic	Yellow	Rm D21	None Detected		
15	27	27	Carpet Mastic	Yellow	Rm D21	None Detected		
15	28	28	Carpet Mastic	Yellow	Rm D21	None Detected		

Homogeneous Area	Sample No.	Photo No.	Description	Color	Material Location	Asbestos Content	Estimated Quantity	Comments
15	29	29	Mastic Under Carpet	Yellow	Rm D21	None Detected		
16	29A	29	12" x 12" VFT/Mastic Under Carpet-Beige	Beige	Rm D21	None Detected		
17	29B	29	Mastic Under Carpet	Black	Rm D21	None Detected		
17	30	30	Mastic Under Carpet	Black	Rm D21	None Detected		
16	30A	30	12" x 12" VFT/Mastic Under Carpet-Beige	Beige	Rm D21	None Detected		
15	30B	30	Mastic Under Carpet	Yellow	Rm D21	None Detected		
17	31	31	Mastic Under Carpet	Black	Rm D21	None Detected		
16	31A	31	12" x 12" VFT/Mastic Under Carpet-Beige	Beige	Rm D21	None Detected		
15	31B	31	Mastic Under Carpet	Yellow	Rm D21	None Detected		
16	32	32	12" x 12" VFT Beige	Beige	Rm D27	None Detected		
17	32A	32	Mastic	Black	Rm D27	None Detected		
16	33	33	12" x 12" VFT Beige	Beige	Rm D27	None Detected		
17	33A	33	Mastic	Black	Rm D27	None Detected		
16	34	34	12" x 12" VFT Beige	Beige	Rm D27	None Detected		
17	34A	34	Mastic	Black	Rm D27	None Detected		
18	35	35	Epoxy Resin Tops	Black	Back Lab	None Detected		
19	36	36	Mastic	White	Back Lab	None Detected		
19	37	37	Mastic	White	Back Lab	None Detected		
20	38	38	Plaster	Gray	Lab	None Detected		
22	39	39	Plaster	Gray	Lab	None Detected		
23	40	40	12x12 VFT Tan Blotchy	Tan	Lab	None Detected		Patched area
24	<mark>40A</mark>	<mark>40</mark>	Mastic	Black	Lab	Positive Result	50 Ft ²	Patched area of VFT
25	40B	40	Mastic	Yellow	Lab	None Detected		
23	41	41	12" x 12" VFT Tan Blotchy	Tan	Lab	None Detected		
<mark>24</mark>	<mark>41A</mark>	<mark>41</mark>	Mastic	Black	Lab	Positive Stop (Not Analyzed)		
25	41B	41	Mastic	Yellow	Lab	None Detected		
23	42	42	12" x 12" VFT Tan Blotchy	Tan	Lab	None Detected		
<mark>24</mark>	<mark>42A</mark>	<mark>42</mark>	Mastic	Black	Lab	Positive Stop (Not Analyzed)		

25	42B	42	Mastic	Yellow	Lab	None Detected		
26	<mark>43</mark>	<mark>43</mark>	Mastic	Black	Mech. Room (Rm D20)	Positive Result	44 ft^2	No Tile Associated with this mastic
26	<mark>44</mark>	<mark>44</mark>	Mastic	Black	Mech. Room (Rm D20)	Positive Stop (Not Analyzed)		
27	45	45	Firestop	Red	Mech. Room (Rm D20)	None Detected		
27	46	46	Firestop	Red	Mech. Room (Rm D20)	None Detected		
28	47	47	12" x 12" VFT Under Carpet-Beige	White/Red	Rm D22	None Detected		
29	47A	47	Mastic	Black	Rm D22	None Detected		
30	47B	47	Mastic	Black	Rm D22	None Detected		
28	48	48	12" x 12" VFT Under Carpet-Beige	White/Red	Rm D22	None Detected		
29	48A	48	Mastic	Black	Rm D22	None Detected		
30	48B	48	Mastic	Black	Rm D22	None Detected		
28	49	49	12" x 12" VFT Under Carpet-Beige	White/Red	Rm D22	None Detected		
29	49A	49	Mastic	Black	Rm D22	None Detected		
30	49B	49	Mastic	Black	Rm D22	None Detected		
18	50	50	Epoxy Resin Tops	Black	Rm D25	None Detected		

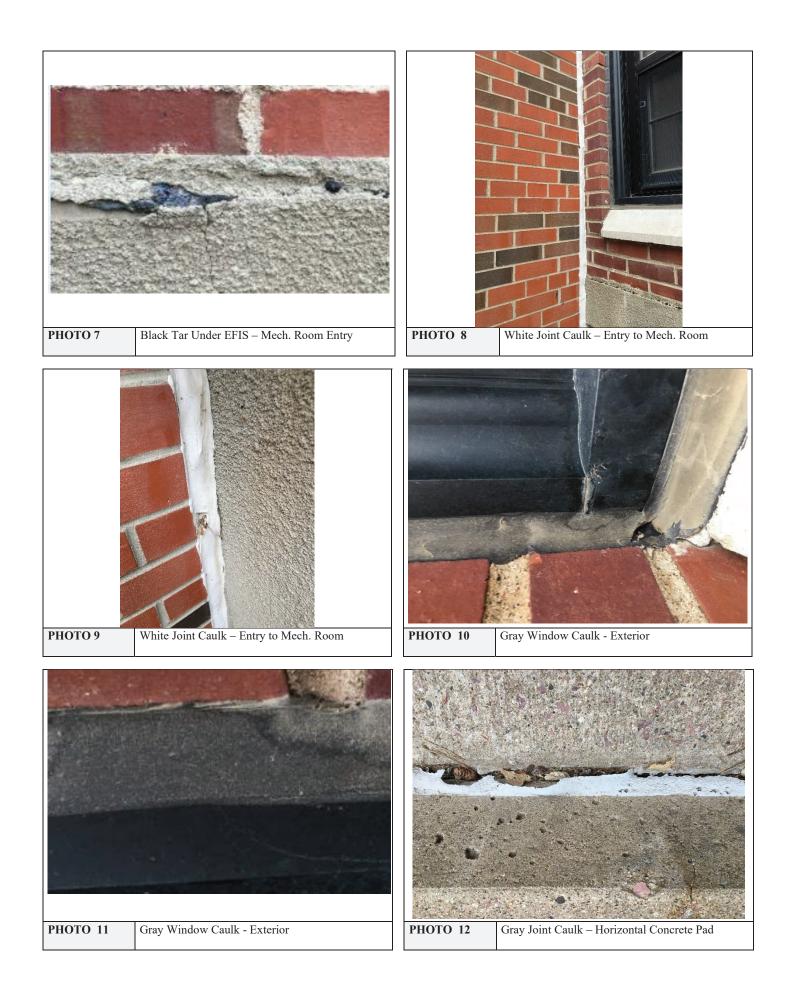
Table 2. Lead-Based Paint/Lead Material Content XRF Model: NITON XLp Series Lead Analyzer, serial #24794 Lead-Based Paint = ≥ 1 mg/cm²

Sample No.	Photo No.	Substrate	Description	Location	Color	Lead Content	Condition	Estimated Quantity
1		Metal	Electrical Panel	Mech Rm	Grey	0.00	Good	
2		Concrete	Wall	Mech Rm	White	0.00	Fair	
3		Concrete	Wall	Mech Rm	Red	0.00	Fair	
4		Metal	Duct	Mech Rm	Grey	0.00	Fair	
5		Metal	Frame	Mech Rm	Red	0.01	Fair	
6		Concrete	Wall	Mech Rm	Red	0.00	Good	
7		Metal	Tank	Mech Rm	Silver	0.01	Fair	
8		Metal	Mixing Chamber	Mech Rm	Red	0.25	Fair	
9		Wood	Panel	Mech Rm	Grey	0.00	Fair	
10		Metal	Casing	Mech Rm	Grey	0.01	Good	
11		Metal	Mixing Chamber	Mech Rm	Red	0.50	Good	
12		Metal	Valve	Mech Rm	Red	0.60	Fair	
13		Metal	Breaker Box	Mech Rm	Grey	0.01	Good	
14		Metal	Breaker Box	Mech Rm	Grey	0.00	Good	
15		Metal	Pipe	Mech Rm	Red	0.02	Good	
16		Metal	Conduit	Mech Rm	White	0.00	Fair	
17		Metal	Pipe	Mech Rm	White	0.00	Fair	
18		Metal	Overhead Tank	Exterior	Grey	0.02	Fair	
19		Metal	Window Frame	Exterior	Black	0.00	Good	
20		Metal	Window	Exterior	Black	0.00	Good	
21		Metal	Door (inside)	Exterior	Red	0.06	Fair	
22		Metal	Door (outside)	Exterior	Black	0.00	Good	
23		Metal	Door (outside)	Exterior	Brown	0.00	Good	
<mark>24</mark>		Metal	Hand Railing	Exterior	Brown	<mark>1.7</mark>	Fair	150 linear ft
25		Metal	Pipe	Exterior	Red	0.00	Fair	
26		Metal	Flashing	Exterior	Black	0.00	Good	
27		Metal	Duct (Ext)	Exterior	Red	0.00	Fair	
28		Metal	Panel	Exterior	Brown	0.00	Good	
<mark>29</mark>		Metal	Grate	Exterior	Brown	10.20	Poor	15 ft ²
30		Metal	Door	Exterior	Black	0.00	Good	
31		Metal	Window Frame	Exterior	Silver	0.00	Good	
<mark>32</mark>		Metal	Window Top Plate	Exterior	White	<mark>15.00</mark>	Poor	44 ft^2
33		Metal	Pipe	Crawl Space	Black	0.00	Fair	
34		Metal	Pipe	Crawl Space	Black	0.00	Fair	

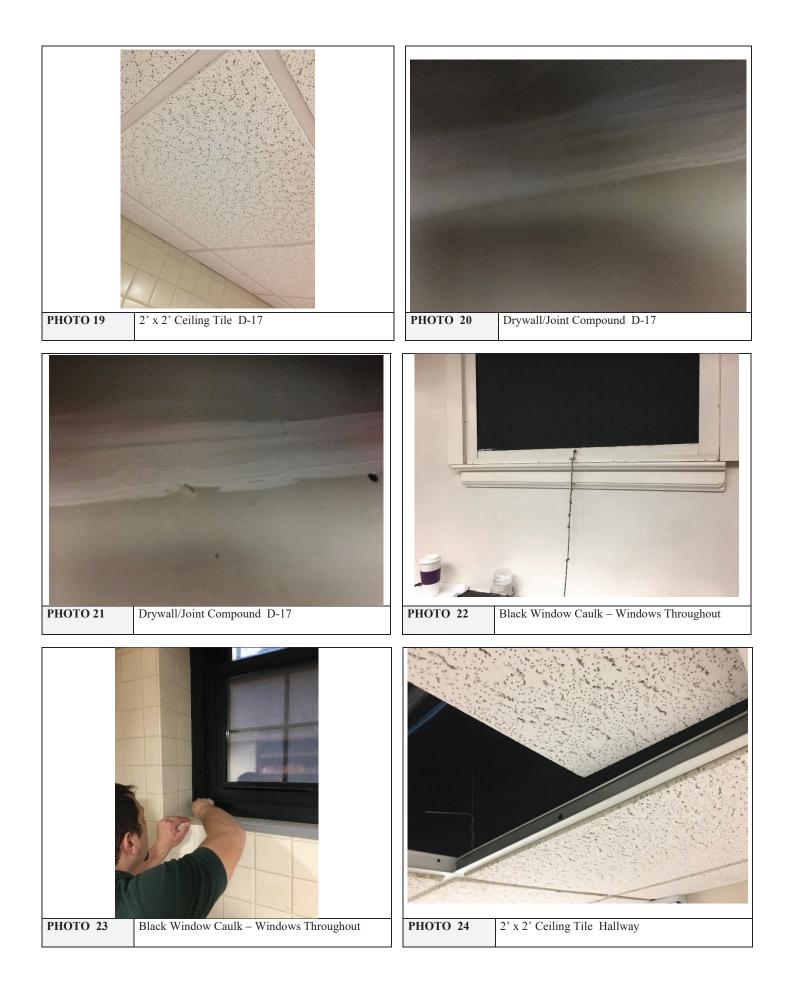
35	Metal	Pipe	Crawl Space	Black	0.00	Fair	
36	Metal	Pipe	Crawl Space	Black	0.00	Fair	
37	Metal	Pipe	Crawl Space	Black	0.00	Fair	
38	Metal	Pipe	Crawl Space	Black	0.02	Fair	
<mark>39</mark>	Metal	Handrail	Crawl Space	Brown	3.80	Fair	25 linear ft.
<mark>40</mark>	Metal	Stairs	Crawl Space	Brown	2.90	Fair	100 ft ²
<mark>41</mark>	Metal	Ladder	Crawl Space	Grey	3.10	Fair	1 each
42	Metal	Valve	Crawl Space	Silver	0.00	Good	
43	Metal	Breaker Box	Crawl Space	Grey	0.06	Good	
44	Metal	Pipe	Crawl Space	Red	0.02	Good	
45	Clay	Block	Crawl Space	Red	0.00	Good	
46	Ceramic	Tile	D-17	Cream	0.00	Good	
47	Metal	Cabinet	D-17	Beige	0.00	Good	
48	Metal	Upper Cabinet	D-17	Beige	0.02	Good	
49	Metal	Door Frame	D-17	Beige	0.02	Good	
50	Ceramic	Floor	D-17	Beige	0.00	Good	
51	Metal	Cabinet	D-17	Beige	0.00	Good	
52	Metal	Pipe	D-17	Black	0.00	Good	
53	Sheetrock	Wall	Hallway	White	0.00	Good	
54	Metal	Grate	Hallway	White	0.00	Good	
55	Metal	Grid	Hallway	White	0.00	Good	
56	Metal	Door Frame	D-18	Beige	0.00	Good	
57	Metal	Door Frame	D-22	Beige	0.00	Good	
58	Metal	Pipe	Hallway	Black	0.00	Fair	
59	Sheetrock	Wall	D-21	Cream	0.00	Fair	
60	Sheetrock	Wall	Hallway	Cream	0.00	Fair	
61	Metal	Door Frame	D-27	Beige	0.00	Good	
62	Metal	Cabinet	D-27	Beige	0.00	Good	
63	Metal	Cabinet with glass	D-27	Beige	0.00	Good	
64	Metal	File Cabinet	S. end	Cream	0.00	Good	
65	Metal	Door	S. end	Cream	0.00	Good	
66	Metal	Door Frame	S. end	Cream	0.05	Good	
67	Metal	Cabinet	S. end	Beige	0.00	Good	
68	Sheetrock	Wall	W. wall	White	0.00	Good	
69	Metal	Fume Hood	W. wall	Cream	0.01	Good	
70	Metal	Side of Fume Hood	W. wall	Cream	0.00	Good	
<mark>71</mark>	Wood	Window Sill	E. wall	White	5.30	Fair	50 ft ²
72	Wood	Vertical Window	W. wall	White	0.00	Good	
73	Sheetrock	Wall	W. wall	White	0.00	Fair	
74	Metal	Under Sink	W. wall	Black	0.00	Good	
75	Plaster	Wall	W. wall	White	0.28	Poor	

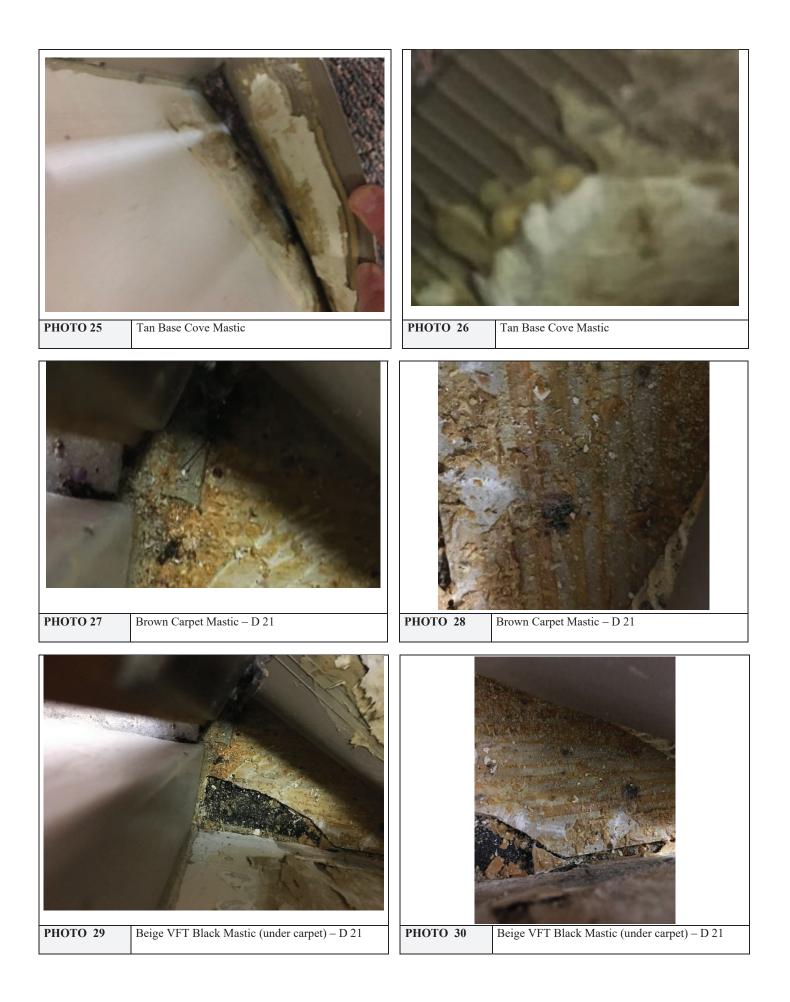
76	Plaster	Wall	W. wall	White	0.00	Good	
77	Sheetrock	Column	W. wall	White	0.00	Good	
78	Plaster	Wall	W. wall	White	0.00	Good	
79	Metal	Power Strip	W. wall	Tan	0.14	Good	
80	Metal	Transformer	D-20	Green	0.12	Good	
81	Plaster	E Wall	D-20	White	0.23	Good	
82	Plaster	N Wall	D-20	White	0.00	Good	
83	Metal	Breaker Box	D-20	Grey	0.00	Good	
84	Wood	Panel Behind Box	D-20	Grey	0.00	Good	
85	Metal	Pipe	D-20	Red	0.03	Good	
86	Porcelain	Sink	D-20	White	0.00	Good	
87	Metal	Ceiling Light Fixture	D-20	White	0.00	Good	
88	Concrete Block	Wall	D-20	Black	0.02	Good	
89	Concrete	Floor	D-20	Grey	0.00	Good	











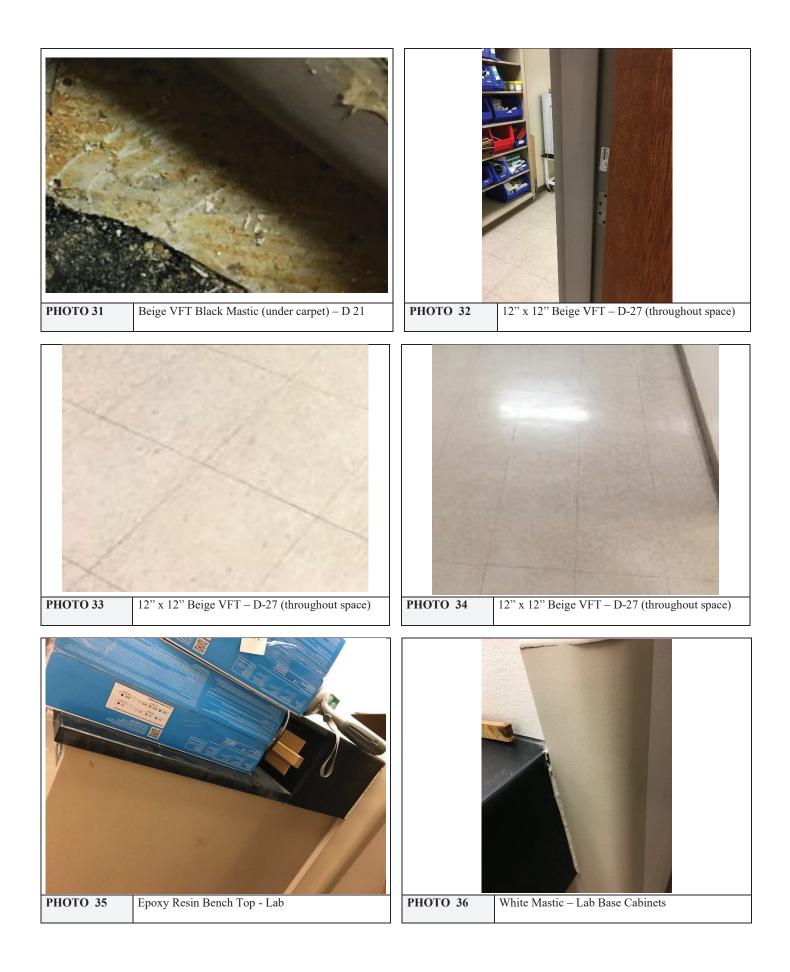






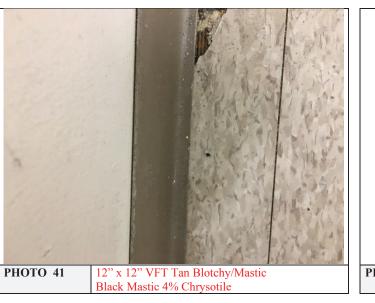
 PHOTO 38
 Plaster Wall – Lab (Exterior Wall)



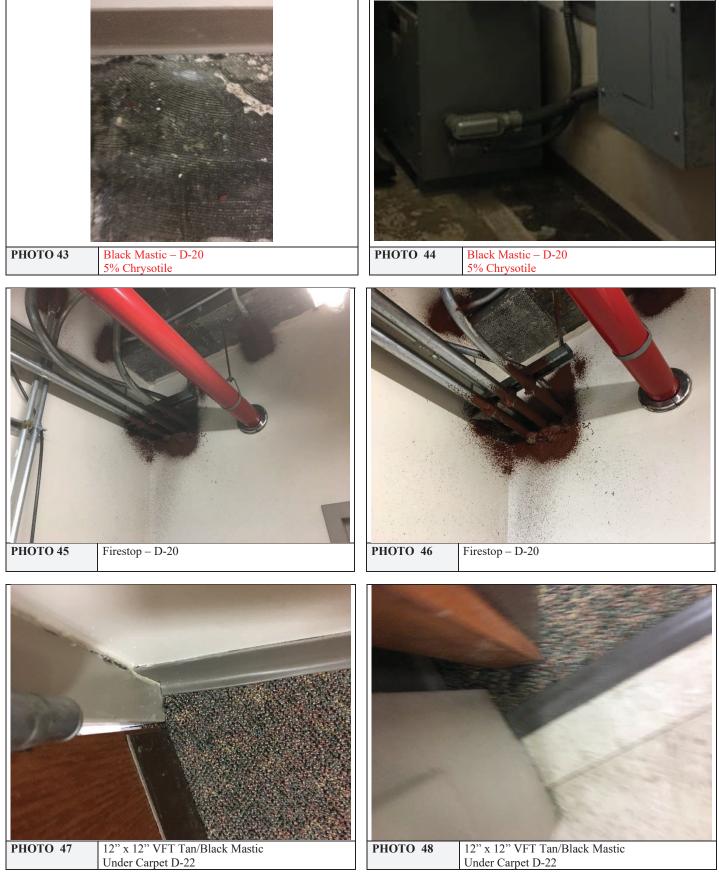


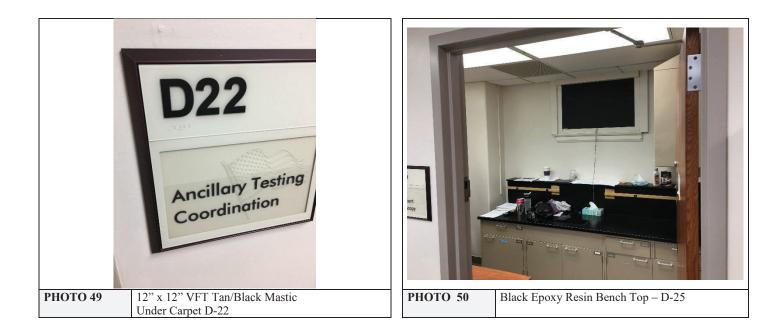
РНОТО 40

12" x 12" VFT Tan Blotchy/Mastic Black Mastic 4% Chrysotile













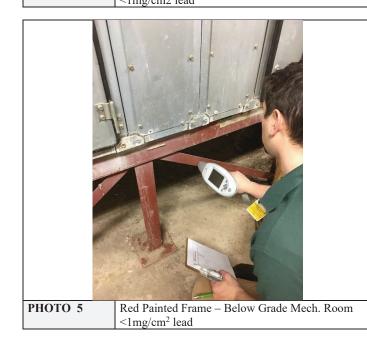




 PHOTO 2
 White Painted wall - Below Grade Mech. Room

 <1mg/cm² lead</td>



PHOTO 4 Electrical Panel – Below Grade Mechanical Room <1mg/cm² lead





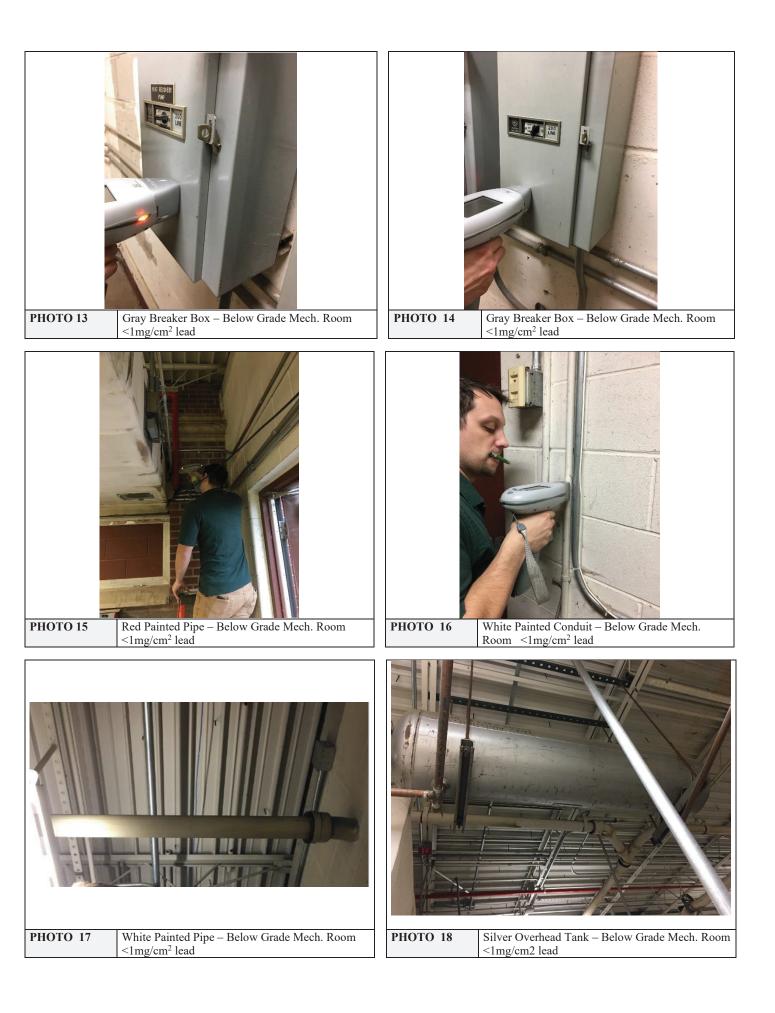
РНОТО 12

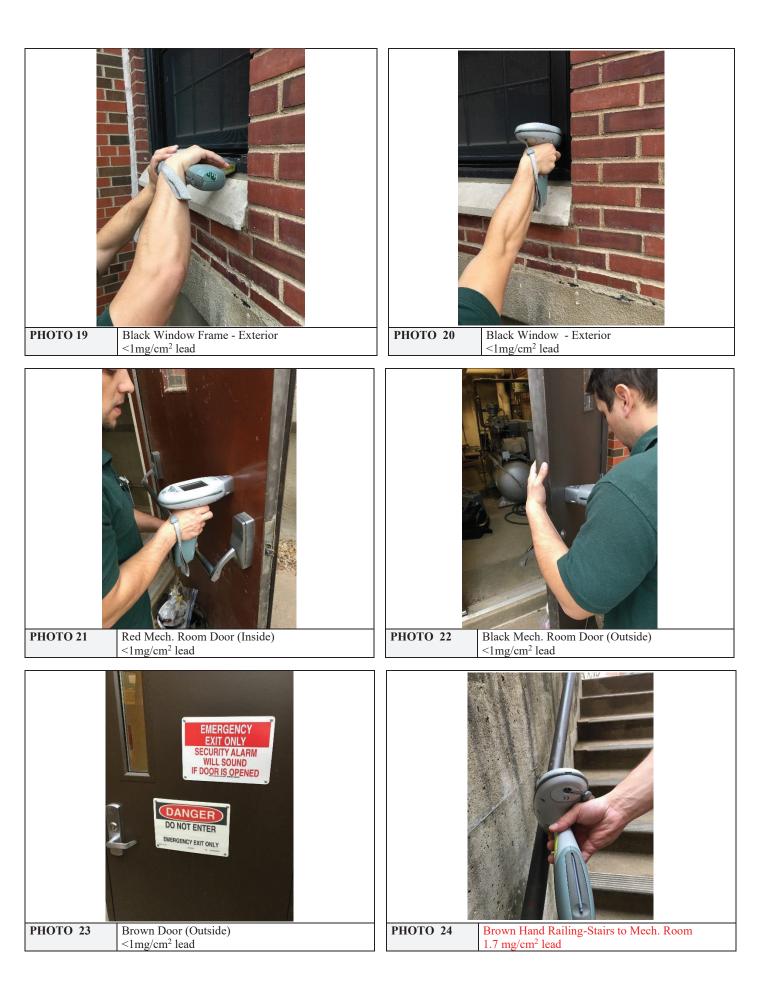
Red Painted Valve - Below Grade Mech. Room

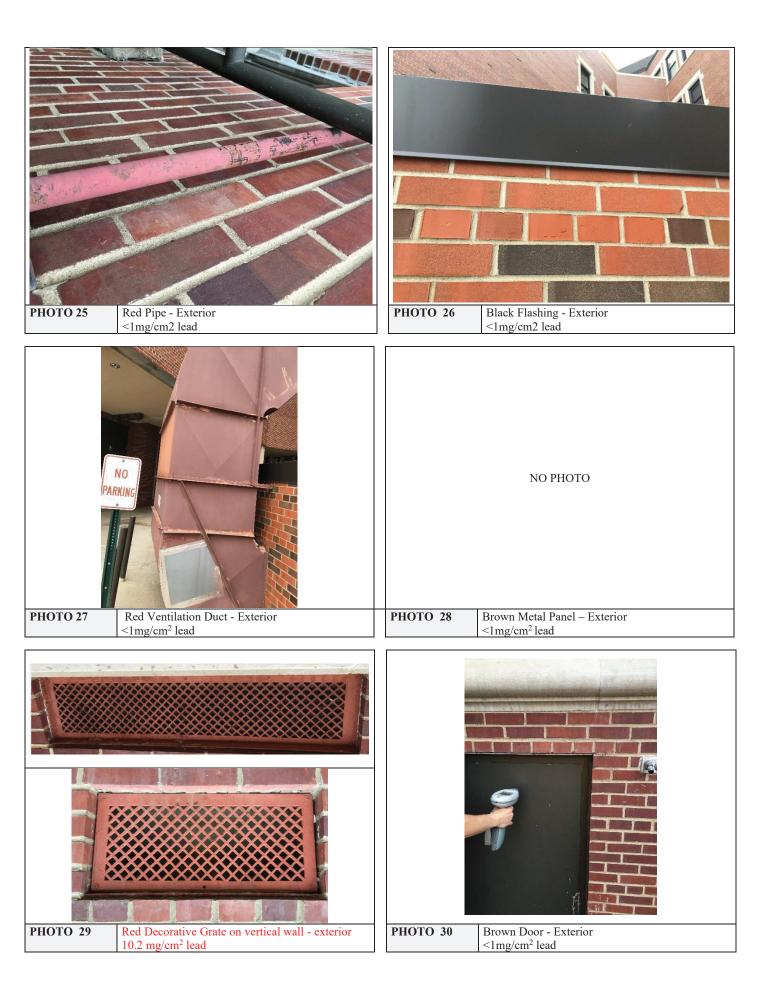
<1mg/cm² lead

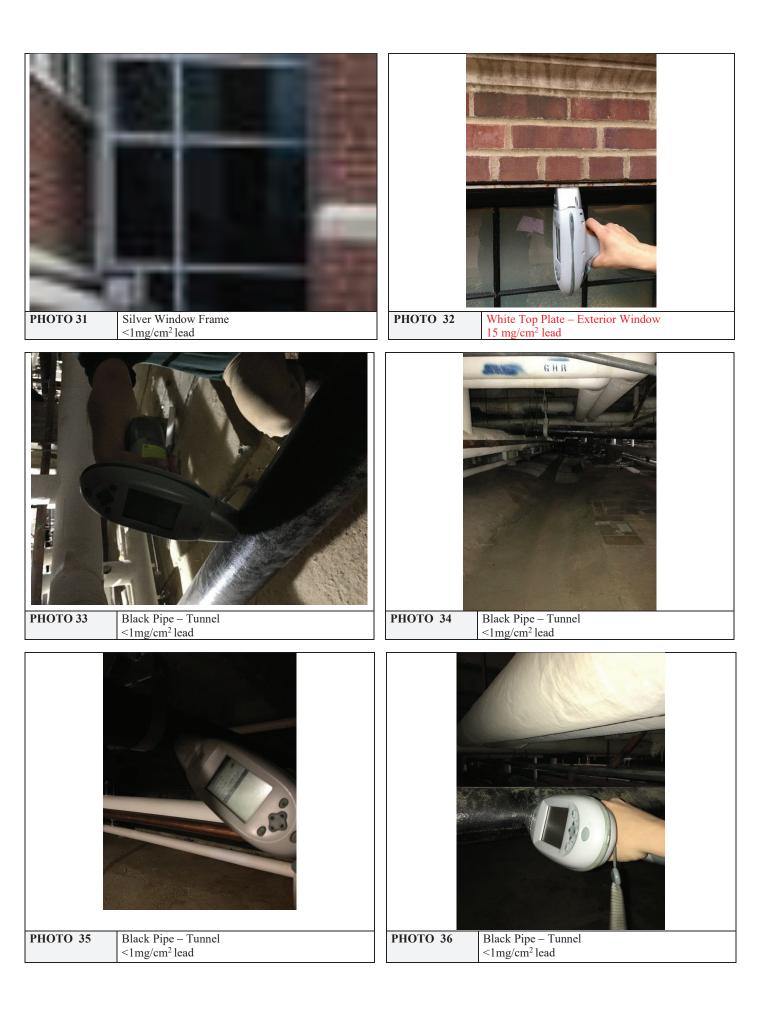
Red Painted Mixing Chamber – Below Grade Mech. Room <1mg/cm² lead

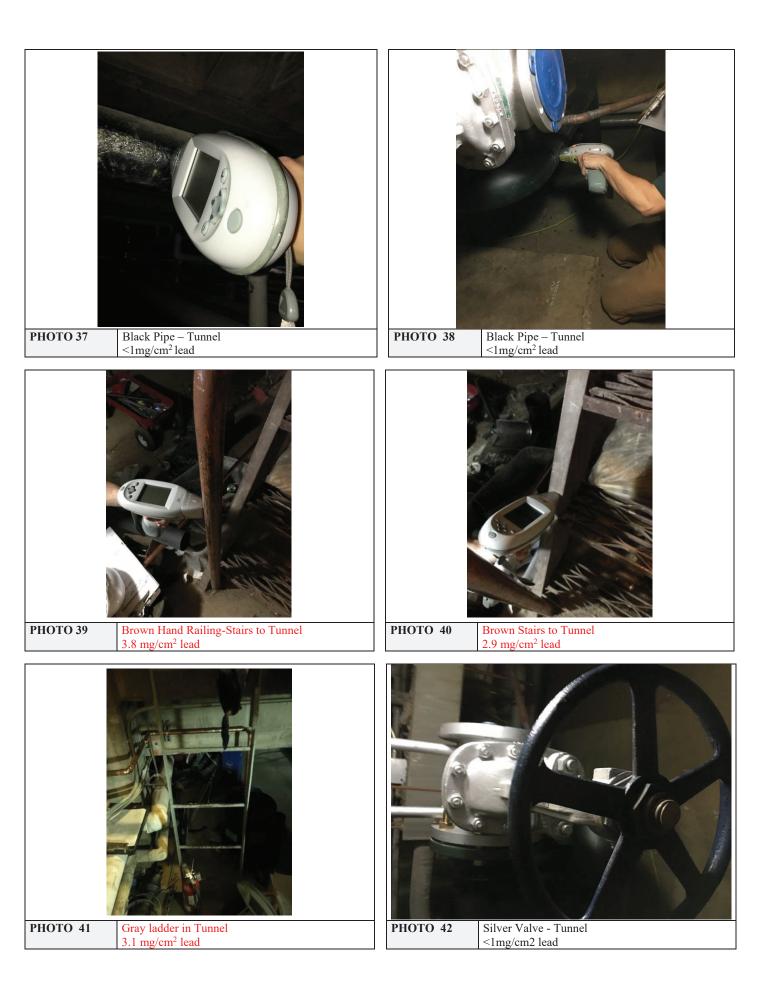
РНОТО 11

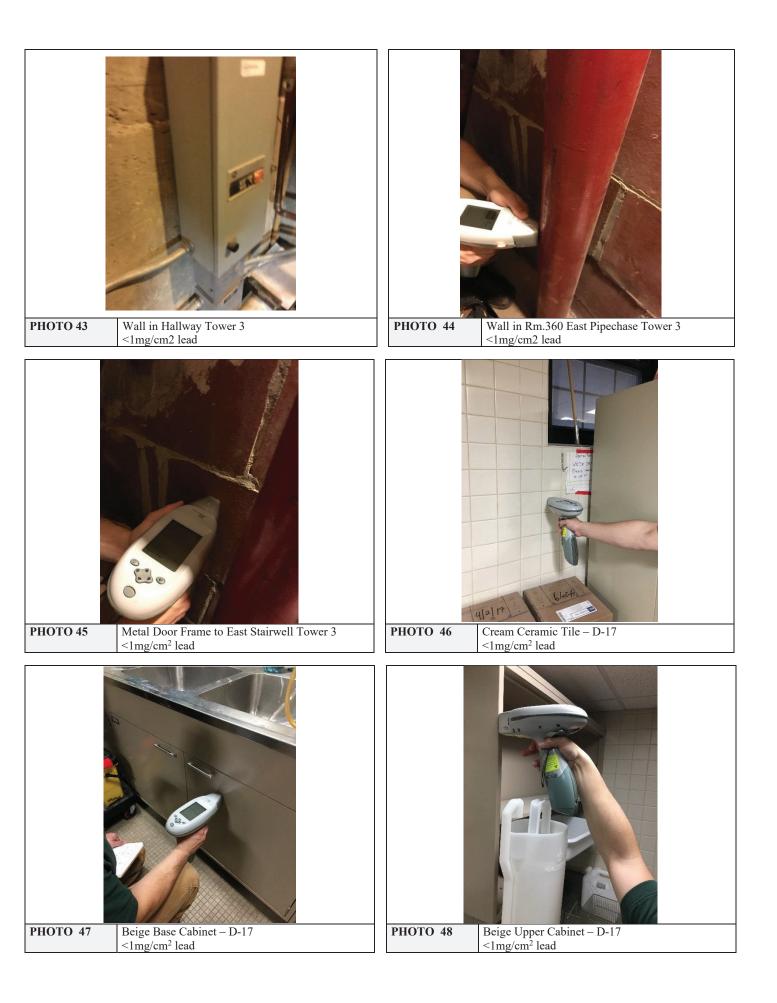


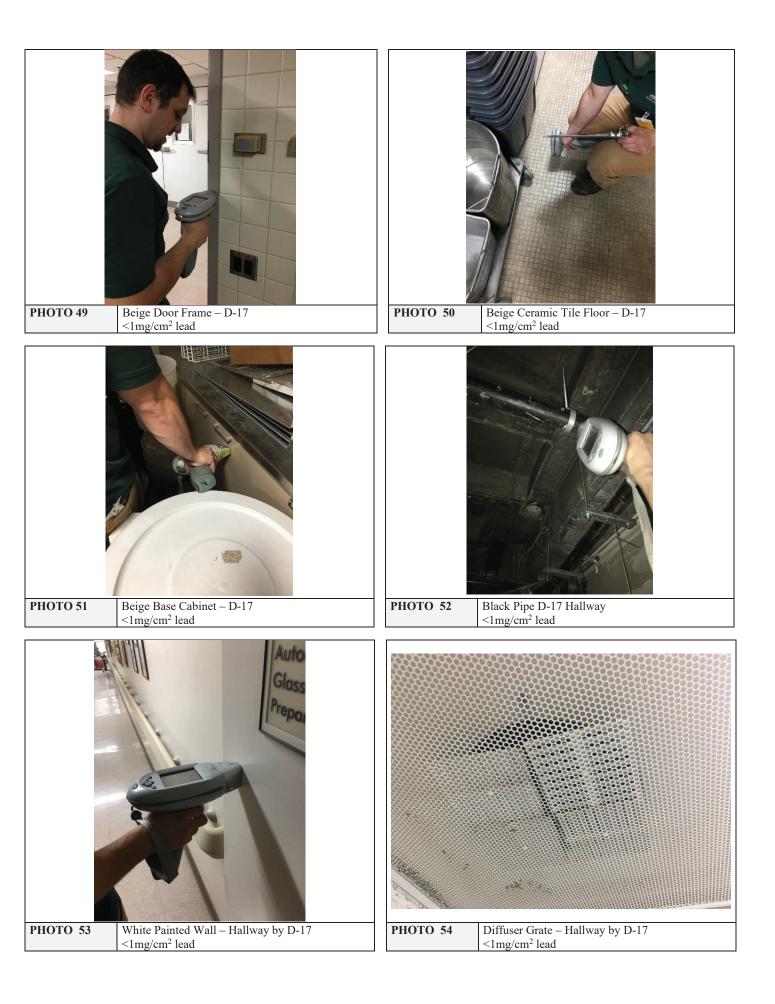


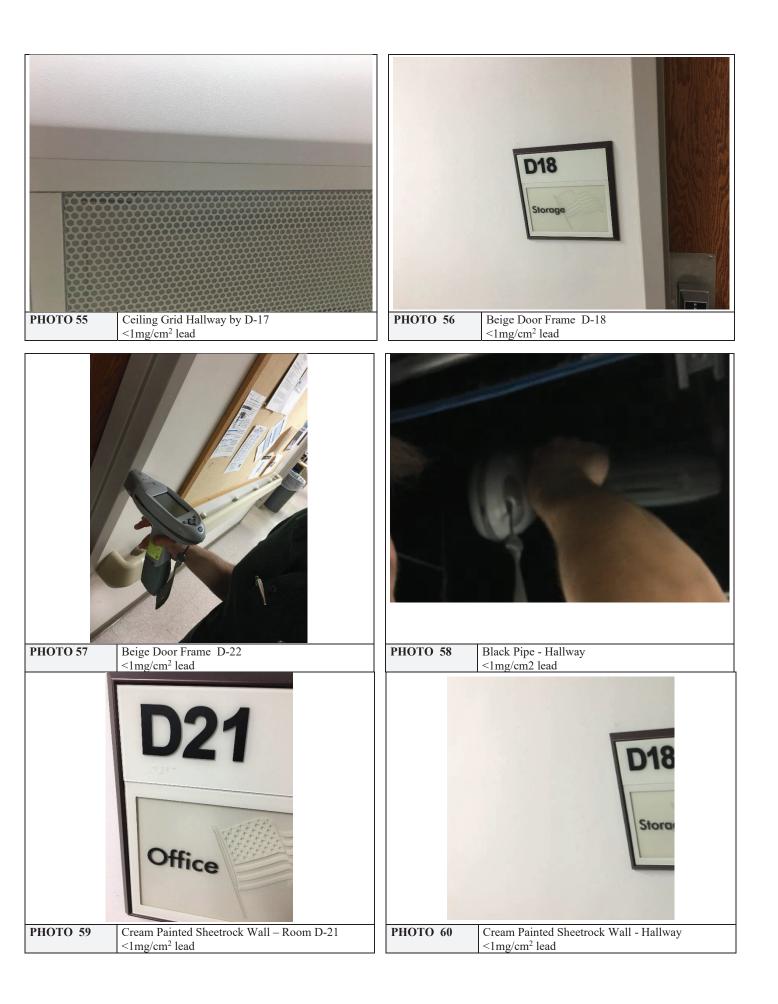


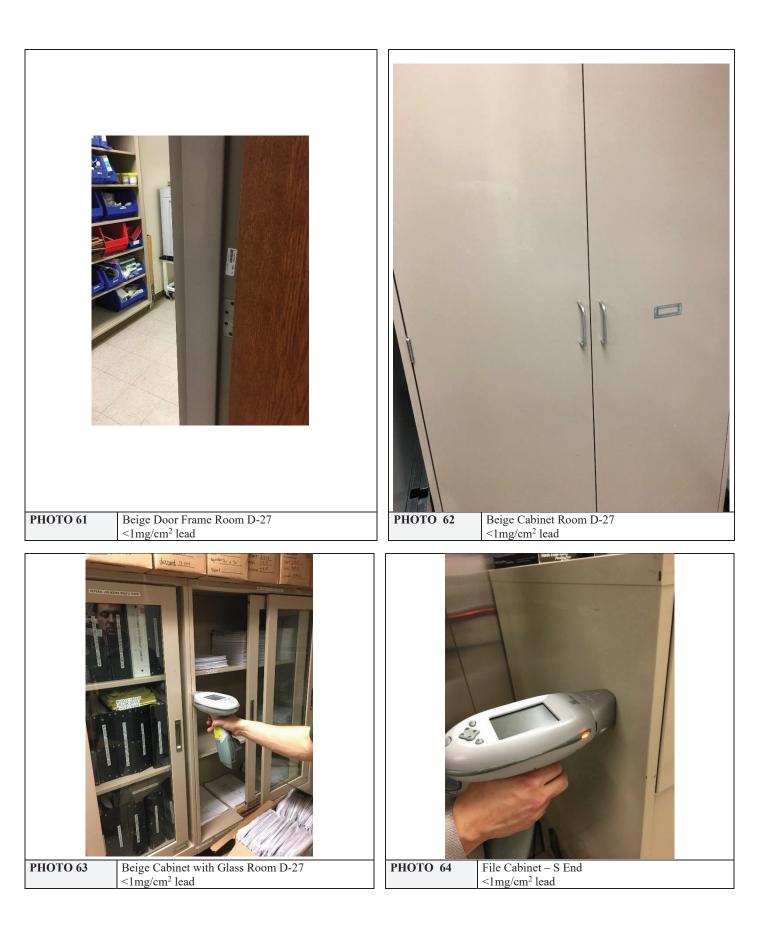


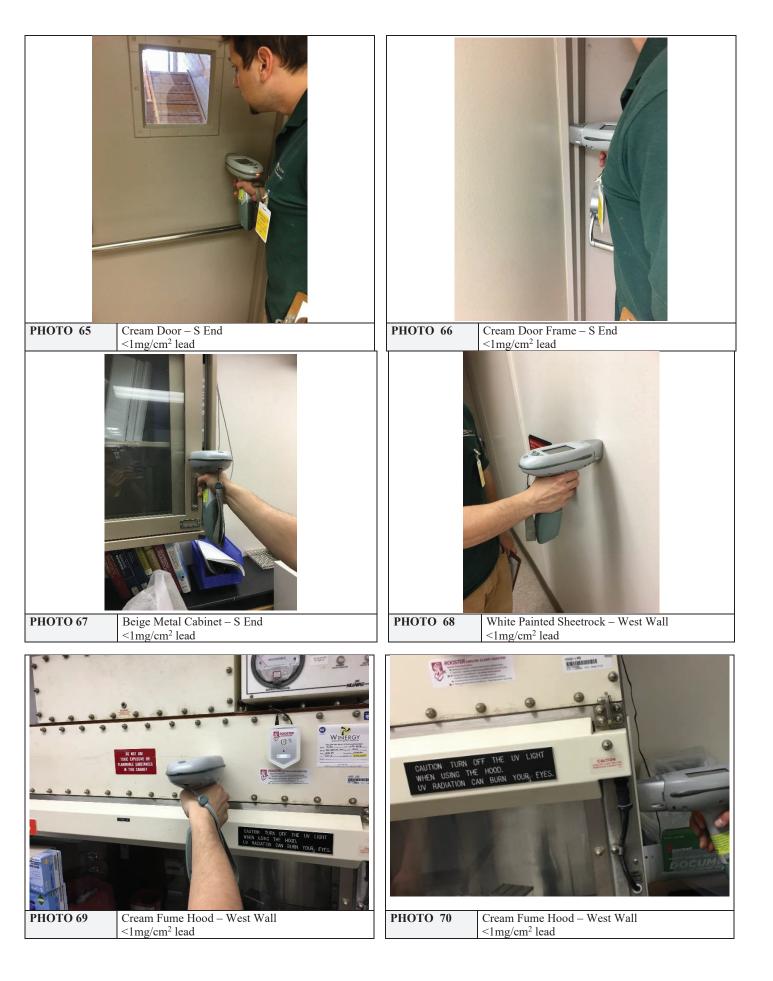


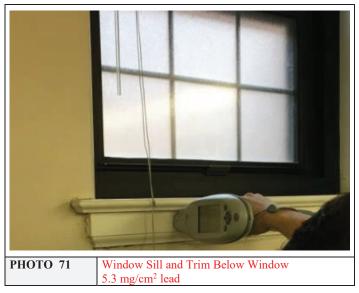


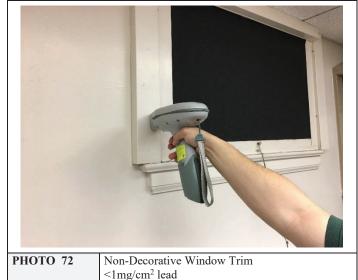








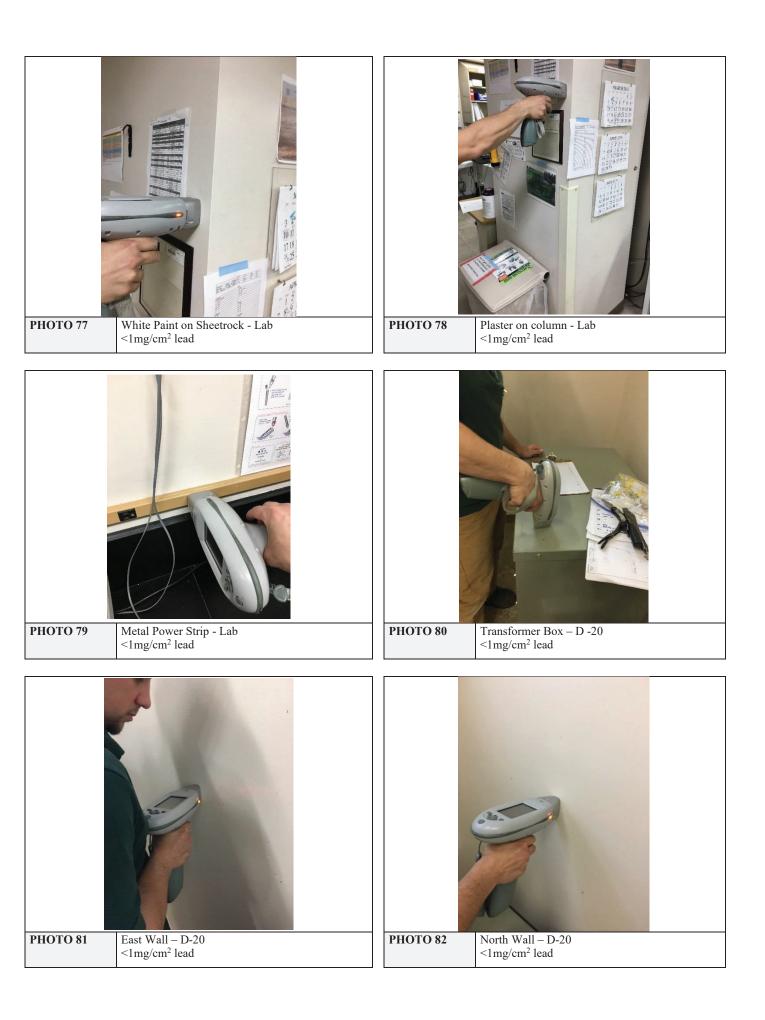




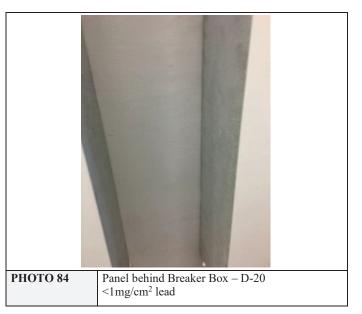


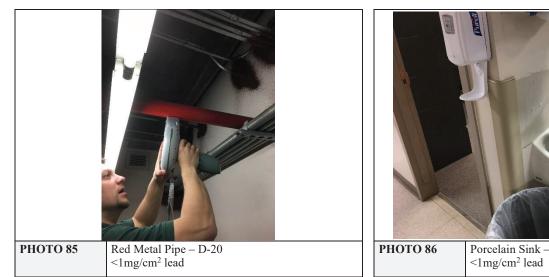


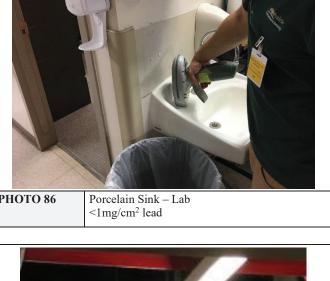




















			((
Attention:	Bill Crowe	Phone:	(402) 397-5001
	AMI Group, Inc.	Fax:	(402) 397-3313
	8802 South 135th Street	Received Date:	04/19/2019 9:20 AM
	Suite 100	Analysis Date:	04/24/2019 - 05/01/2019
	Omaha, NE 68138-6511	Collected Date:	04/17/2019
Project:	18-00338 / SFVA Bldg 5 / Sioux Falls, SD		

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

			sbestos	Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
1	Gray Mastic	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0001		Homogeneous			
2	Gray Mastic	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0002		Homogeneous			
3	EFIS	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0003		Homogeneous			
4	EFIS	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0004		Homogeneous			
5	EFIS	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0005		Homogeneous			
6	Tar behind EFIS	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0006		Homogeneous			
7	Tar behind EFIS	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0007		Homogeneous			
8	White Caulk	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0008		Homogeneous			
9	White Caulk	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0009		Homogeneous			
10	Gray Window Caulk	Gray/Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0010		Homogeneous			
11	Gray Window Caulk	Gray/Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0011		Homogeneous			
12	Gray on Concrete	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0012		Homogeneous			
13	Gray on Concrete	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0013		Homogeneous			
14	Gray Joint Vertical	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0014		Homogeneous			
15	Gray Joint Vertical	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0015		Homogeneous			
16	Debris	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0016		Homogeneous			



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 EMSL Order:
 041910574

 Customer ID:
 AMI50

 Customer PO:
 18-00338

Project ID:

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

			Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
17 041910574-0017	Debris	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
18	Rm D17 Ceiling Tile 2x2	Homogeneous Brown/Gray/White Fibrous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
041910574-0018		Homogeneous			
19	Rm D17 Ceiling Tile 2x2	Brown/Gray/White Fibrous	60% Cellulose 30% Min. Wool	10% Non-fibrous (Other)	None Detected
041910574-0019		Homogeneous			
20-Drywall 041910574-0020	Drywall	Brown Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
	Joint Compound	White		100% Non-fibrous (Other)	None Detected
20-Joint Compound 041910574-0020A	Joint Compound	Non-Fibrous Homogeneous		100 % NOT-Horous (Other)	None Delected
21-Drywall	Drywall	White	15% Cellulose	80% Non-fibrous (Other)	None Detected
041910574-0021	,	Fibrous Homogeneous	5% Glass	(0.0)	
21-Joint Compound	Joint Compound	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0021A		Homogeneous			
22	Black Window Caulk	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0022		Homogeneous			
23	Black Window Caulk	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0023		Homogeneous	500/ Callulate		Name Detected
24 041910574-0024	Ceiling Tile same as 18, 19	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
25	Base Mastic	Yellow		100% Non-fibrous (Other)	None Detected
041910574-0025		Non-Fibrous Homogeneous			
26	Base Mastic	Yellow		100% Non-fibrous (Other)	None Detected
041910574-0026		Fibrous Homogeneous			
27	Carpet Mastic	Yellow		100% Non-fibrous (Other)	None Detected
041010574 0007		Non-Fibrous			
⁰⁴¹⁹¹⁰⁵⁷⁴⁻⁰⁰²⁷ 28	Carpet Mastic	Homogeneous Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0028		Homogeneous			
29-Mastic	Under Carpet - Black Mastic	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0029		Homogeneous			
29-Floor Tile	Floor Tile	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0029A		Homogeneous			
29-Mastic 2	Under Carpet - Black Mastic	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0029B		Homogeneous			
30-Mastic	Under Carpet - Black Mastic	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0030		Homogeneous			New Data to 1
30-Floor Tile 041910574-0030A	Floor Tile	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
071310314-0030A		nomoyeneous			



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

			<u>Non-A</u>	sbestos	Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре	
30-Mastic 2	Under Carpet - Black Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	
31-Mastic	Under Carpet - Black Mastic	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041910574-0031		Homogeneous				
31-Floor Tile	Floor Tile	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041910574-0031A		Homogeneous				
31-Mastic 2	Under Carpet - Black Mastic	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041910574-0031B	10v10 Paiga	Homogeneous		100% Non fibrous (Other)	Nana Datastad	
32-Tile 041910574-0032	12x12 Beige	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	
32-Mastic	Black Mastic	Black		100% Non-fibrous (Other)	None Detected	
041910574-0032A	Didok Midolio	Non-Fibrous Homogeneous			None Deletieu	
33-Tile	12x12 Beige	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041910574-0033		Homogeneous				
33-Mastic	Black Mastic	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041910574-0033A		Homogeneous				
34-Tile	12x12 Beige	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041910574-0034		Homogeneous				
34-Mastic	Black Mastic	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041910574-0034A		Homogeneous				
35 041910574-0035	Epoxy Resin Tops	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected	
36	White Mastic	Homogeneous White		100% Non-fibrous (Other)	None Detected	
041910574-0036	White Mastic	Non-Fibrous Homogeneous			None Delected	
37	White Mastic	White		100% Non-fibrous (Other)	None Detected	
041910574-0037		Non-Fibrous Homogeneous				
38	Plaster Main Lab	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041910574-0038		Homogeneous				
39	Plaster Main Lab	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041910574-0039		Homogeneous				
40-Tile	Tan Blotchy	Tan Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041910574-0040		Homogeneous				
40-Mastic	Black Mastic	Black Fibrous		96% Non-fibrous (Other)	4% Chrysotile	
041910574-0040A	NZ II	Homogeneous				
40-Mastic 2	Yellow Mastic	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041910574-0040B	Tan Blat-bi	Homogeneous			Nena Data da d	
41-Tile	Tan Blotchy	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	
041910574-0041		Homogeneous				



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Project ID:

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

0	B		Non-Ast		Asbestos
ample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
1-Mastic	Black Mastic				Positive Stop (Not Analyzed)
41910574-0041A					
11-Mastic 2	Yellow Mastic	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
41910574-0041B		Homogeneous			
2-Tile	Tan Blotchy	Tan Non-Fibrous		100% Non-fibrous (Other)	None Detected
41910574-0042		Homogeneous			
2-Mastic	Black Mastic				Positive Stop (Not Analyzed)
41910574-0042A					
12-Mastic 2	Yellow Mastic	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
41910574-0042B		Homogeneous			
13	Black Mastic	Black Fibrous		95% Non-fibrous (Other)	5% Chrysotile
41910574-0043		Homogeneous			
14	Black Mastic				Positive Stop (Not Analyzed)
41910574-0044					
15	Firestop	Red Fibrous	10% Glass	90% Non-fibrous (Other)	None Detected
41910574-0045		Homogeneous			
6	Firestop	Red Non-Fibrous		100% Non-fibrous (Other)	None Detected
41910574-0046		Homogeneous			
7-Tile	Tile under Carpet	White/Red Non-Fibrous		100% Non-fibrous (Other)	None Detected
41910574-0047		Homogeneous			
7-Mastic	Mastic	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0047A		Homogeneous			
7-Mastic 2	Mastic	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
41910574-0047B		Homogeneous			
l8-Tile	Tile under Carpet	White/Red Non-Fibrous		100% Non-fibrous (Other)	None Detected
41910574-0048		Homogeneous			
l8-Mastic	Mastic	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
41910574-0048A	N	Homogeneous			Nue Dir rit
l8-Mastic 2	Mastic	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0048B	T U	Homogeneous			
9-Tile	Tile under Carpet	White/Red Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0049	Maatia	Homogeneous			News District
9-Mastic	Mastic	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0049A	M	Homogeneous			New Director
19-Mastic 2	Mastic	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0049B		Homogeneous			
50	Epoxy Resin Tops	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
041910574-0050		Homogeneous			



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 Project ID:
 Image: Comparison of the second seco

Analyst(s)

Alexis Kum (35) Edward Zambrano (12) Seri Smith (23)

Benjamin Ellis, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Locati	on:	VA Medical	Center, Sioux Fal	ls, SD - Build	ding 5 (Mech Rm, T	unnel, Low	er Level)	
Inspec	ctor:	Jason Biggin	s, Prairie Environ	mental Cor	sulting, LLC			
XRF Mo	odel: NITON	XLp Series Lead	Analyzer, serial #24	794	Lead Paint ≥ 1.0 mg	<mark>g/</mark> cm²		
XRF #	Unit #	Substrate	Component	Color	Test Location	Condition	Results	Notes
1					Calibrate			Test
2					Calibrate			Test
3					Calibrate			Test
4					Calibrate			Test
5					Calibrate			Test
6					Calibrate			Test
7	Mech Rm	Metal	Electrical Panel	Grey	Mech Rm	Good	0.00	
8	Mech Rm	Concrete	Wall	White	Mech Rm	Fair	0.00	
9	Mech Rm	Concrete	Wall	Red	Mech Rm	Fair	0.00	
10	Mech Rm	Metal	Duct	Grey	Mech Rm	Fair	0.00	
11	Mech Rm	Metal	Frame	Red	Mech Rm	Fair	0.01	
12	Mech Rm	Concrete	Wall	Red	Mech Rm	Good	0.00	
13	Mech Rm	Metal	Tank	Silver	Mech Rm	Fair	0.01	
14	Mech Rm	Metal	Mixing Chamber	Red	Mech Rm	Fair	0.25	
15	Mech Rm	Wood	Panel	Grey	Mech Rm	Fair	0.00	
16	Mech Rm	Metal	Casing	Grey	Mech Rm	Good	0.01	
17	Mech Rm	Metal	Mixing Chamber	Red	Mech Rm	Good	0.50	
18	Mech Rm	Metal	Valve	Red	Mech Rm	Fair	0.60	
19	Mech Rm	Metal	Breaker Box	Grey	Mech Rm	Good	0.01	
20	Mech Rm	Metal	Breaker Box	Grey	Mech Rm	Good	0.00	
21	Mech Rm	Metal	Pipe	Red	Mech Rm	Good	0.02	
22	Mech Rm	Metal	Conduit	White	Mech Rm	Fair	0.00	
23	Mech Rm	Metal	Pipe	White	Mech Rm	Fair	0.00	
24	Exterior	Metal	Overhead Tank	Grey	Exterior	Fair	0.02	
25	Exterior	Metal	Window Frame	Black	Exterior	Good	0.00	

26	Exterior	Metal	Window	Black	Exterior	Good	0.00	
27	Exterior	Metal	Door (inside)	Red	Exterior	Fair	0.06	
28	Exterior	Metal	Door (outside)	Black	Exterior	Good	0.00	
29	Exterior	Metal	Door (outside)	Brown	Exterior	Good	0.00	
30	Exterior	Metal	Hand Railing	Brown	Exterior	Fair	1.7	150 linear ft
31	Exterior	Metal	Pipe	Red	Exterior	Fair	0.00	
32	Exterior	Metal	Flashing	Black	Exterior	Good	0.00	
33	Exterior	Metal	Duct (Ext)	Red	Exterior	Fair	0.00	
34	Exterior	Metal	Panel	Brown	Exterior	Good	0.00	
35	Exterior	Metal	Grate	Brown	Exterior	Poor	10.20	15 ft ²
36	Exterior	Metal	Door	Black	Exterior	Good	0.00	
37	Exterior	Metal	Window Frame	Silver	Exterior	Good	0.00	
38	Exterior	Metal	Window Top Plate	White	Exterior	Poor	15.00	11 windows = 44 ft
39	Crawl Space	Metal	Pipe	Black	Crawl Space	Fair	0.00	
40	Crawl Space	Metal	Pipe	Black	Crawl Space	Fair	0.00	
41	Crawl Space	Metal	Pipe	Black	Crawl Space	Fair	0.00	
42	Crawl Space	Metal	Pipe	Black	Crawl Space	Fair	0.00	
43	Crawl Space	Metal	Pipe	Black	Crawl Space	Fair	0.00	
44	Crawl Space	Metal	Pipe	Black	Crawl Space	Fair	0.02	
45	Crawl Space	Metal	Handrail	Brown	Crawl Space	Fair	3.80	25 ft
46	Crawl Space	Metal	Stairs	Brown	Crawl Space	Fair	2.90	100 ft ²
47	Crawl Space	Metal	Ladder	Grey	Crawl Space	Fair	3.10	1 ea
48	Crawl Space	Metal	Valve	Silver	Crawl Space	Good	0.00	
49	Crawl Space	Metal	Breaker Box	Grey	Crawl Space	Good	0.06	
50	Crawl Space	Metal	Pipe	Red	Crawl Space	Good	0.02	
51	Crawl Space	Clay	Block	Red	Crawl Space	Good	0.00	
52	D-17	Ceramic	Tile	Cream	D-17	Good	0.00	
53	D-17	Metal	Cabinet	Beige	D-17	Good	0.00	
54	D-17	Metal	Upper Cabinet	Beige	D-17	Good	0.02	

55	D-17	Metal	Door Frame	Beige	D-17	Good	0.02
56	D-17	Ceramic	Floor	Beige	D-17	Good	0.00
57	D-17	Metal	Cabinet	Beige	D-17	Good	0.00
58	D-17	Metal	Pipe	Black	D-17	Good	0.00
59	Hallway	Sheetrock	Wall	White	Hallway	Good	0.00
60	Hallway	Metal	Grate	White	Hallway	Good	0.00
61	Hallway	Metal	Grid	White	Hallway	Good	0.00
62	D-18	Metal	Door Frame	Beige	D-18	Good	0.00
63	D-22	Metal	Door Frame	Beige	D-22	Good	0.00
64	Hallway	Metal	Pipe	Black	Hallway	Fair	0.00
65	D-21	Sheetrock	Wall	Cream	D-21	Fair	0.00
66	Hallway	Sheetrock	Wall	Cream	Hallway	Fair	0.00
67	D-27	Metal	Door Frame	Beige	D-27	Good	0.00
68	D-27	Metal	Cabinet	Beige	D-27	Good	0.00
69	D-27	Metal	Cabinet with glass	Beige	D-27	Good	0.00
70	S. end	Metal	File Cabinet	Cream	S. end	Good	0.00
71	S. end	Metal	Door	Cream	S. end	Good	0.00
72	S. end	Metal	Door Frame	Cream	S. end	Good	0.05
73	S. end	Metal	Cabinet	Beige	S. end	Good	0.00
74	W. wall	Sheetrock	Wall	White	W. wall	Good	0.00
75	W. wall	Metal	Fume Hood	Cream	W. wall	Good	0.01
76	W. wall	Metal	Side of Fume Hood	Cream	W. wall	Good	0.00
77	E. wall	Wood	Window Sill	White	E. wall	Fair	5.30 50 ft
78	W. wall	Wood	Vertical Window	White	W. wall	Good	0.00
79	W. wall	Sheetrock	Wall	White	W. wall	Fair	0.00
80	W. wall	Metal	Under Sink	Black	W. wall	Good	0.00
81	W. wall	Plaster	Wall	White	W. wall	Poor	0.28
82	W. wall	Plaster	Wall	White	W. wall	Good	0.00
	W. wall	Sheetrock	Column	White	W. wall	Good	0.00

84	W. wall	Plaster	Wall	White	W. wall	Good	0.00
85	W. wall	Metal	Power Strip	Tan	W. wall	Good	0.14
86	D-20	Metal	Transformer	Green	D-20	Good	0.12
87	D-20	Plaster	E Wall	White	D-20	Good	0.23
88	D-20	Plaster	N Wall	White	D-20	Good	0.00
89	D-20	Metal	Breaker Box	Grey	D-20	Good	0.00
90	D-20	Wood	Panel Behind Box	Grey	D-20	Good	0.00
91	D-20	Metal	Pipe	Red	D-20	Good	0.03
92	D-20	Porcelain	Sink	White	D-20	Good	0.00
93	D-20	Metal	Ceiling Light Fixture	White	D-20	Good	0.00
94	D-20	Concrete Block	Wall	Black	D-20	Good	0.02
95	D-20	Concrete	Floor	Grey	D-20	Good	0.00



ET ENVIRONMENTAL TRAINING INSTITUTE

UND Environmental Training Institute 4201 James Ray Drive Grand Forks, ND 58202 (701) 757-1676

Hereby certifies that

Jason Biggins

Gary Snow & Associates 118 N Garfield Pierre, SD 57501

Has attended and successfully completed the

Lead - Risk Assessor Refresher

In compliance with and accredited by the Environmental Protection Agency (EPA), pursuant to TSCA Sections 402/404 (15 U.S.C. 2682) and approved by the State of Minnesota under 4761.2000 to 4761.2700 and the State of North Dakota under North Dakota Air Pollution Control Rule (NDAC) 33-15-24.

Held on: 11/15/2017

Course Location: Exam Date: Certificate #: Expiration Date: Fargo-Expressway 11/15/2017 LRAR-17-001-0034 34 11/15/2018 MN 11/15/2020 EPA

TRAINING DIRECTOR UND ENVIRONMENTAL TRAINING INSTITUTE