



December 7, 2011

Mr. Doug Olsen, Facilities Manager
General Services Division
Department of Administration
1310 East Lockey
P.O. Box 200110
Helena, Montana 59620-0110

**RE: Report of Findings for Hazardous Materials Inspection, Testing, and Consulting Services
1539 11th Avenue – Helena, Montana**

Dear Mr. Olson,

At your request and in accordance with our proposed scope of services, A.L.M. Consulting, LLC (A.L.M.) has completed the hazardous materials inspection (inspection) for the above referenced project. The inspection was completed by Mr. Ryan McGee, a Montana-accredited asbestos inspector (MTA-1705). Inspection services included the identification and sample collection for potential asbestos-containing building materials (ACBM), lead-based paint, mold, and polychlorinated biphenyl's (PCB's).

ASBESTOS

A.L.M. performed the asbestos inspection portion of the project in accordance with the Administrative Rules of Montana (ARM) 17.74.354 and general accordance with the Environmental Protection Agency (EPA) – Asbestos Hazards and Emergency Response Act (AHERA) regulation 40 CFR 763. The asbestos inspection was also completed in accordance with the EPA National Emission Standard for Hazardous Air Pollutants (NESHAP) regulation 40 CFR 61, subpart M, which requires an asbestos inspection be completed prior to renovation or demolition of any public or commercial facility.

A.L.M. evaluated interior and exterior building materials of the State Owned Building located at 1539 11th Avenue in Helena, Montana. Building materials identified for this inspection included, but was not limited to, sheetrock and plaster wall systems, 12" x 12" and 9" x 9" vinyl floor tile and associated mastic, carpet adhesive, and 2' x 4' lay-in ceiling panels. Building materials considered suspect for containing asbestos were categorized, numbered, and placed into homogeneous areas (HA) for sample collection and laboratory analysis, as follows:

- **Surfacing Materials (S):** 3-samples for surfacing materials less than 1,000 square feet (SF), 5-samples between 1,000 and 5,000 SF, and at least 7-samples over 5,000 SF.
- **Thermal System Insulation (T):** 3-samples from each HA of thermal system insulation, which may include boiler insulation, mudded fittings, and/or expanded vermiculite insulation.
- **Miscellaneous Material (M):** 3-samples from each HA of miscellaneous material, such as ceiling tile, vinyl floor tile (VFT), vinyl sheet flooring (VSF), and/or roof materials.
- **Patching Materials (P):** One sample of patch material may be obtained from patching materials, where the patch materials are less than 6 square feet.

For the asbestos inspection portion of the project, A.L.M. originally estimated a total of 28 building materials generally considered suspect for containing asbestos, whereby a total of 89 bulk material samples would be required to complete the inspection. However, during the inspection, four additional building materials were identified, whereby an additional 14 bulk material samples were collected to complete the inspection.

A total of 103 bulk material samples were collected and shipped under chain-of-custody protocol to Carolina Environmental, Inc. (CEI) in Cary, North Carolina for analysis to confirm or deny the presence of asbestos. Two different types of asbestos-containing thermal system insulation were also identified during the inspection; however, based on our professional experience with similar projects, these materials were assumed positive for containing asbestos and not sampled.

In accordance with current MDEQ-ACP and EPA regulations, and our proposal, dated November 1, 2011, A.L.M. requested a positive-stop analytical approach, whereby if one sample within a specific group was confirmed positive for containing asbestos, the remaining samples within that group were held, and not analyzed. By utilizing this approach, a total of 85 bulk material samples were analyzed to complete the inspection.

A total of thirteen building materials, including floor tile mastic, were confirmed positive for containing asbestos. 12 out of the 13 building materials contained asbestos with a concentration of greater than one percent (>1%), which under current MDEQ-ACP and EPA regulations are considered as an asbestos-containing building material (ACBM). The interior sheetrock wall systems within the offices on the 1st floor and partition walls within the hallways and stairways, were also confirmed positive for containing asbestos, however, based on laboratory analytical procedures, the sheetrock wall systems contained less than one percent (<1%) asbestos, when analyzed as a composite.

Under current MDEQ-ACP and EPA regulations, building materials containing >1% asbestos are placed into one of the following three *NESHAP categories for abatement considerations.

- Category I non-friable ACBM are generally considered as packings, gaskets, resilient floor coverings, and asphalt roof products, which contain greater than one percent asbestos.
- Category II non-friable ACBM are ACBM, excluding Category I non-friable ACBM, such as cement asbestos board and cement asbestos pipe materials, which contain greater than one percent asbestos.
- Regulated Asbestos-Containing Materials (RACM) are friable materials, Category I non-friable ACBM that will or may be subjected to sanding, grinding, cutting, or abrading or Category II non-friable ACBM that have a high probability of becoming or have become crumbled, pulverized, or reduced to powder by forces acting on or expected to act on the ACBM through the course of renovations and/or demolition activities.

For purposes of this inspection, the twelve building materials confirmed positive for containing asbestos in concentrations of >1% asbestos, are considered as Category I non-friable ACBM. The sheetrock materials are not currently regulated by the MDEQ-ACP or EPA. The Occupational Safety and Health Administration (OSHA), however, take a different approach for asbestos considerations under OSHA regulation 29 CFR 1926.1101, Safety and Health Regulations for Construction. OSHA does not recognize a safe concentration of asbestos in building materials, and will require special considerations for contractors, if the sheetrock materials are impacted by future renovations.

Table I below identifies the 13 building materials confirmed positive for containing asbestos. Table I also provides information, which includes the sample identification number, the building material description, the sample location, the concentration of asbestos, the NESHAP category for each ACBM, and recommended response actions for abatement, if future renovation activities are planned within the building.

TABLE I - Asbestos-Containing Building Materials

Sample ID	Building Material Description	Sample Location	% Asbestos	*NESHAP Category	Response Action
M1.1	Sheetrock Wall System	Throughout main floor offices, hallways, and stairways	<1%	N/A	OSHA Compliance
M11.1	Black panel adhesive	North wall Room 107	10%	Category I	Remove
F3.1	9" x 9" red vinyl floor tile	Various areas on 1st, 2nd, and 3rd floors	2% VFT ND - Mastic	Category I	Remove
F2.2	12" x 12" cream-gray vinyl floor tile	1st floor men's and women's restrooms	5% VFT ND - Mastic	Category I	Remove
F2.3	12" x 12" gray-red vinyl floor tile	Various areas throughout 1 st floor	15% VFT ND - Mastic	Category I	Remove
F2.4	12" x 12" gray-black-white-red vinyl floor tile	Various areas throughout 1 st floor	10% VFT ND - Mastic	Category I	Remove
F5.5	Mastic beneath 12" x 12" brown vinyl floor tile	2nd floor men's and women's restrooms	ND - VFT 5% Mastic	Category I	Remove
F2.6/F5.6	12" x 12" tan-white vinyl floor tile & mastic	3rd floor men's and women's restrooms	3% VFT 5% - Mastic	Category I	Remove
F2.7/F5.8	12" x 12" green-gray vinyl floor tile & mastic	1st floor restroom Room 116	3% VFT 5% - Mastic	Category I	Remove
F2.8/F5.9	12" x 12" gray-pink vinyl floor tile & mastic	Throughout 4th floor	3% VFT 5% - Mastic	Category I	Remove
N/A	Mudded fitting thermal system insulation	1st floor – south wall pipe chase	Assumed	RACM	Remove
N/A	Straight-pipe thermal system insulation	1st floor – south wall pipe chase	Assumed	RACM	Remove

Legend:

- ND = Sample was "Non-detect" for containing asbestos in this layer.
- VFT = Vinyl Floor Tile
- N/A = Not Applicable

Additional building materials considered for this inspection, however based on laboratory analytical results were determined not to contain asbestos are listed below.

- M1.2 – Sheetrock, joint, & tape materials
- M2.1 – Cream cove base adhesive
- M2.2 – Brown cove base adhesive
- M2.3 – Cream cove base adhesive
- F6.1 – Yellow carpet adhesive
- F6.2 – Green carpet adhesive
- M6.1 – 2' x 4' lay-in ceiling panel
- M6.2 – 2' x 4' lay-in ceiling panel
- M6.3 – 2' x 4' lay-in ceiling panel
- M7.1 – Exterior window glazing
- M11.2 – Brown panel adhesive
- M11.3 – Yellow panel adhesive

- S3.1 – Troweled-on skim coat – smooth
- S3.2 – Troweled-on skim coat – texture
- F1.1 – Vinyl sheet flooring under carpet
- F4.2 – Concrete thinset
- T5.1 – Fiberglass patch materials
- M15.1 – Interior brick & mortar
- F4.1 – Floor leveler
- F2.1/F5.1 – 12" x 12" VFT/brown mastic

A copy of the asbestos laboratory analytical report and chain-of-custody paperwork provided by Carolina Environmental, Inc., is presented as Appendix A. In accordance with current MDEQ-ACP, A.L.M. utilized existing drawings of the building to identify bulk material sample locations. Copies of the sample location drawings are provided as Appendix B.

ASBESTOS RECOMMENDATIONS

The asbestos inspection of the commercial building located at 1539 11th Avenue was completed to confirm or deny the presence of asbestos in building materials within the building. We realize that the building may be sold, and that no definitive plans for interior or exterior renovations have been made. The building materials listed in Table I, which were confirmed positive for containing asbestos, are in good condition, can be managed in-place, and do not pose a health risk to Montana State employees or visitors to the building. If, however, future development of the property includes interior renovation and/or demolition activities, which would impact the asbestos-containing building materials (ACBM), the ACBM would be required to be abated. The following recommendations are for abatement considerations.

Under current MDEQ-ACP and EPA regulations, the Owner would be required to enlist the services of an asbestos abatement contractor capable of performing asbestos abatement projects. The asbestos abatement contractor would be required, under the asbestos NESHAP guidelines, to enter into a contract with the Owner, complete the asbestos abatement project design and asbestos abatement permit application, and submit these documents to the MDEQ-ACP for approval, prior to commencing with abatement activities.

The Owner would also be required to enter into a second contract with an independent (third-party) asbestos consultant. The services of the third-party consultant would be to assist the Owner through the project and insure that the asbestos abatement operations are completed in accordance with all state and federal asbestos regulations. On behalf of the Owner, the third-party consultant would also complete final clearance visual inspection and air sampling services following abatement operations.

During the inspection, A.L.M. was informed of additional pipe tunnels leading from the boiler room, which contained mechanical piping wrapped with asbestos-containing thermal system insulation. In accordance with EPA and MDEQ-ACP regulations these materials were encased in concrete. The pipe tunnels were abandoned, but the asbestos-containing thermal system insulation is still in-place. Therefore, additional asbestos inspection and design services for abatement would be required, if the building is scheduled for demolition.

LEAD-BASED PAINT

Lead overexposure is one of the most common overexposures found in industry today, and is a leading cause of workplace illness. OSHA has established the reduction of lead exposure to be a high strategic priority. OSHA's five year strategic plan sets a performance goal of a 15% reduction in the average severity of lead exposure or employee blood lead levels in selected industries and workplaces.

Two other federal agencies regulate limits for LBP other than OSHA. They are, the Consumer Products Safety Standard (CPSS) and the Housing and Urban Development (HUD). Regulatory limits for each agency are listed below.

- OSHA – No Safe Limit
- CPSS – >0.06% lead by weight

- HUD – 0.5% lead by weight

The OSHA regulatory limit of "No Safe Limit" has been set due to the high probability of various forms of lead in the construction industry, the CPSS regulatory limit is primarily set forth for addressing consumer products purchased within the United States, and the HUD regulatory limit is set for the protection of children under the ages of six, and women of child bearing age, due to the high toxicity of lead dust when inhaled or ingested.

The lead-based paint sampling was completed to confirm or deny the presence of lead-based paint on interior and exterior finishes, and to inform the Owner of potential lead exposures if the materials are disturbed during future renovations. To complete the inspection, A.L.M. obtained a total of six paint chip samples. Five paint chip samples were collected from interior painted finishes, one additional composite sample was collected from the exterior painted window systems.

The six bulk paint chip samples were categorized, labeled, and shipped under chain-of-custody protocol to Carolina Environmental, Inc. in Cary, North Carolina for analysis of total lead in accordance with the EPA Method SW846-7420, 3050B, by flame atomic absorption. Results from the lead paint inspection are presented in Table 2, below. The laboratory analytical report and chain-of-custody paperwork for the lead-based paint inspection are provided as Appendix C. Sample locations for the paint chip samples are presented on the same drawings utilized for the asbestos inspection, as Appendix B.

TABLE 2 - Lead-Based Paint

Sample ID	Building Material Description	Sample Location	PPM (µg/g)	% Lead by Weight	*Response Action
TL-01	White Paint/Cream Paint over Plaster	Composite - 1 st , 2 nd , 3 rd , and 4 th Floors (Same Throughout all Floors)	760	0.076	OSHA/EPA Compliance
TL-02	Brown Paint on Wood	1 st Floor – Interior Door Casings	630	0.063	OSHA/EPA Compliance
TL-03	Brown Paint on Wood	Composite – Exterior Window Systems	73,000	7.3	Lead Abatement
TL-04	Lt. Blue Paint/Cream Base over Plaster	1 st Floor Computer/Server Room	4900	0.49	OSHA/EPA Compliance
TL-05	Yellow Paint/Cream Base over Plaster	Composite – Rms. 201/301 Closets (Same Throughout all Floors)	1000	0.10	OSHA/EPA Compliance
TL-06	Green Paint over Plaster	1 st Floor – Hallways (Same Throughout all Floors)	880	0.088	OSHA/EPA Compliance
Legend: PPM = Parts per Million µg/g = microgram per gram *Response Actions = See Recommendations					

LEAD-BASED PAINT RECOMMENDATIONS

The lead-based paint inspection of interior and exterior painted finishes for the commercial building located at 1539 11th Avenue was completed to confirm or deny the presence of lead on building material substrates within the building. Again, we realize that the building may be sold, and that no definitive plans for interior or exterior renovations have been made.

The interior painted finishes are in good condition, can be managed in-place, and do not pose a health risk to Montana State employees or visitors to the building. The brown paint on the exterior window systems is weathered and is showing signs of chipping and peeling, but for the most part remain intact and do not pose an immediate health risk to building occupants.

For future reference, however, if interior and/or exterior renovation and/or demolition activities are scheduled, which would impact the painted finishes, the Owner would be required to utilize OSHA and EPA lead accredited personnel. The following recommendations are for abatement considerations.

For OSHA and EPA compliance, if interior or exterior painted finishes are scheduled to be impacted by planned renovation activities, the accredited personnel would be required to present certificates of training in accordance with OSHA regulation 29 CFR 1926.62 and EPA regulation 40 CFR 745.225. Lead-based paint work activities are governed by OSHA, EPA, and the Montana Department of Labor and Industry (DLI). Unlike the asbestos abatement requirements for a planned renovation project, which would impact ACBM, the Owner would not be required to notify OSHA, EPA, or DLI of the renovation project.

However, if renovation activities are scheduled within the building, which would only impact painted finishes (not asbestos), we would still recommend that the Owner and/or Owner's representative notify the MDEQ-ACP of the planned renovation via a Courtesy Notification. The Courtesy Notification is in place, such that MDEQ-ACP personnel are aware of the project and will be able to inform other trades of the work if renovation activities are witnessed on the property. It also reduced the risk of having a renovation project stopped or slowed down if a complaint is brought to the attention of the Enforcement Division. Additional lead-based paint sampling would be required if the building is scheduled for demolition.

MOLD - INDOOR AIR QUALITY ASSESSMENT

To complete the mold-indoor air quality (IAQ) assessment, A.L.M. personnel collected a total of six air samples. The air sample media used for this project was the Micro-5 MicroCell Impactor - Spore Trap Air Sample Cassette (Micro-5). Air samples were collected utilizing a high-flow vacuum pump set at a flow rate of 5.0 liters per minute (L/min). The Micro-5 air samples were allowed to run for 5-minutes at 5.0 L/min for an overall volume of 25.0 liters. The air samples were sealed for sample shipment and labeled for chain-of-custody preparation and laboratory analysis. Samples were shipped, under chain-of-custody protocol to Carolina Environmental, Inc. in Cary, North Carolina for analysis of fungal spores and particulate by Optical Microscopy. Laboratory analytical results, a copy of the chain-of-custody, and a comparison of the results are provided as Appendix D.

A total of four air samples were collected from interior portions of the building, one was collected within the boiler room, and one outside (control) sample was collected outside the southwest corner of the boiler room. The control sample was utilized as a baseline for comparing indoor air quality at the time of the sampling event to those conditions outside. Results from the IAQ assessment showed a lower mold spore count on the 2nd, 3rd, and 4th floors and the boiler room when compared to the control sample. The one air sample collected on the 1st floor showed a little higher mold spore count, however the overall results from the IAQ assessment were acceptable, when compared to similar projects in the Helena area.

MOLD - INDOOR AIR QUALITY ASSESSMENT RECOMMENDATIONS

Overall we would suggest that the indoor air quality is acceptable. With reference to the one air sample on the 1st floor, which showed an elevated mold spore count, we would suggest that the increased foot traffic during the move, the laden dust from the close proximity to the storage areas, and the proximity of the entrances to and exits from the building all contributed to the higher results.

If the building is going to be re-occupied, we would recommend a deep clean of all surfaces, including a deep clean of all the carpet floors. Re-testing the indoor air quality following the cleaning may be considered, but not mandatory.

POLYCHLORINATED BI-PHENYLS

In accordance with our proposed scope of services for this inspection, A.L.M. personnel completed a survey of 25% of the fluorescent light fixtures and associated ballasts on the 2nd, 3rd, and 4th floors to determine whether the light ballasts contained polychlorinated biphenyls (PCB's) and whether the fluorescent light tubes contained mercury. A total of 36 light fixtures were inspected and no PCB's were identified, a small amount of mercury may still be present within the light tubes, but for purposes of this project or any renovation project, the light tubes may be removed and recycled or removed and disposed as non-hazardous waste at the local Helena landfill.

CONCLUSION

We realize that future development of the building located at 1539 11th Avenue has not been determined. We do however; understand that the building may be sold in the future, and that future renovation activities may be completed, which would impact the asbestos and lead materials within the building. If abatement activities are scheduled to be completed, prior to planned renovation within the building, the Owner could anticipate the following costs for abatement.

- Mobilization -Lump Sum \$1,500
- Vinyl Floor Tile - No Mastic - \$.75 to \$1.25 per square foot
- Vinyl Floor Tile and Mastic - \$1.75 to \$2.25 per square foot
- Vinyl Floor Tile - No Mastic under carpet - \$3.00 to \$3.75 per square foot
- Vinyl Floor Tile and Mastic under Carpet - \$4.00 to \$5.50 per square foot
- Thermal System Insulation on Mudded Fittings - \$35.00 to \$50.00 each
- Thermal System Insulation on Straight-pipe - \$15.00 to \$25.00 per linear foot
- Black Wainscot Adhesive - Lump Sum - \$250.00
- Exterior Window Systems – LBP - \$250 to \$500 per window

Costs associated with the unit pricing shown above would include all labor for prep work, abatement, and transport and disposal of asbestos waste. Lead-based paint disposal would depend of the scope of work devised for the project.

If abatement activities are scheduled within the building, the Owner will also be required to enlist the services of a third-party consultant to oversee the abatement. These services would be completed under a separate contract, and would be estimated at \$3,500 to \$5,000.

LIMITATIONS

This hazardous materials inspection report has been prepared based on information gathered during our inspection of the building located at 1539 11th Avenue, and interpretations of laboratory analytical results provided by Carolina Environmental, Inc. The inspection report has been prepared to provide information concerning the various types of building materials considered suspect for containing asbestos and lead-based paint, test indoor air quality of the building, and determine whether PCB's were present in fluorescent light fixtures.

Within the limitations of the agreed-upon scope of work, A.L.M. has conducted the asbestos and LBP inspection in a professional manner in accordance with generally accepted practices, using the degree of skill and care ordinarily exercised by environmental consultants under similar circumstances. Due to physical limitations inherent to this inspection or any environmental assessment, A.L.M. does not warrant that the site is free of contaminants or that all contaminants have been identified. As such, no absolute determination of environmental risks can be made. No other warranties, expressed or implied, are made.

This hazardous materials inspection report is intended for use by the State of Montana General Services Division, and their affiliates. The scope of services performed by A.L.M. Consulting, LLC, 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. This report should not be considered as an abatement work plan, or be utilized by abatement contractors for bidding purposes, if future renovation activities are scheduled within the building.

We appreciate this opportunity to provide these environmental inspection and consulting services to the State of Montana – General Services Division, and we look forward to working with on future projects. Should you have questions or need further clarification about information contained herein please feel free to contact me in our Helena, Montana office at (406) 461-4037 or via e-mail at rmcgee@bresnan.net.

Respectfully submitted,



Ryan D. McGee
Owner/Project Manager

- APPENDIX A – Carolina Environmental, Inc. – Asbestos Analytical Results
- APPENDIX B – Sample Location Drawings
- APPENDIX C – Carolina Environmental, Inc. – Lead-Based Paint Analytical Results
- APPENDIX D – Carolina Environmental, Inc. – Mold Indoor Air Quality Analytical Results
- APPENDIX E – A.L.M. Personnel Asbestos and Lead Accreditations and Certifications

APPENDIX A

**CAROLINA ENVIRONMENTAL, INC.
ASBESTOS ANALYTICAL RESULTS**

LABORATORY REPORT ASBESTOS BULK ANALYSIS

Client: **A.L.M. Consulting, LLC**
 P.O. Box 7886
 Helena, MT 59604

CEI Lab Code: A11-8798
 Received: 11-14-11
 Analyzed: 11-14-11
 Reported: 11-14-11
 Analyst: Gary A. Swanson

Project: GSD - 1539 11th Ave.; 111102-GSDA

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
M1.1A	A1219135 Heterogeneous,	<u>SHEETROCK/JOINT COMPOUND/TAPE</u> White, Brown, Fibrous, Bound CHRY <1% SILI 10% CELL 20% GYPSUM 35% FBGY 30% PAINT 3% FBGL 2%	CHRY <1%
CHRY found only in joint cmpd; 2%. CHRY <1% of overall sample.			
M1.1B	A1219136	<u>SAMPLE NOT ANALYZED PER COC</u>	
M1.1C	A1219137	<u>SAMPLE NOT ANALYZED PER COC</u>	
M1.2A	A1219138 Heterogeneous,	<u>SHEETROCK/JOINT COMPOUND/TAPE</u> White, Brown, Fibrous, Bound SILI 10% CELL 20% GYPSUM 35% FBGY 30% PAINT 3% FBGL 2%	ND
M1.2B	A1219139 Heterogeneous,	<u>SHEETROCK/JOINT COMPOUND/TAPE</u> White, Brown, Fibrous, Bound SILI 10% CELL 20% GYPSUM 35% FBGY 30% PAINT 3% FBGL 2%	ND
M1.2C	A1219140 Heterogeneous,	<u>SHEETROCK/JOINT COMPOUND/TAPE</u> White, Brown, Fibrous, Bound SILI 10% CELL 20% GYPSUM 35% FBGY 30% PAINT 3% FBGL 2%	ND

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS				
M2.1A	A1219141	<u>COVEBASE ADHESIVE</u> Heterogeneous, Cream, Brown, Fibrous, Bound	MAST	95 %	WOLL CELL	3 % 2 %	ND
M2.1B	A1219142	<u>COVEBASE ADHESIVE</u> Homogeneous, Cream, Fibrous, Bound	MAST	98 %	CELL	2 %	ND
M2.1C	A1219143	<u>COVEBASE ADHESIVE</u> Homogeneous, Cream, Fibrous, Bound	MAST	98 %	CELL	2 %	ND
M2.2A	A1219144	<u>COVEBASE ADHESIVE</u> Homogeneous, Brown, Fibrous, Bound	MAST	98 %	CELL	2 %	ND
M2.2B	A1219145	<u>COVEBASE ADHESIVE</u> Homogeneous, Brown, Fibrous, Bound	MAST	98 %	CELL	2 %	ND
M2.2C	A1219146	<u>COVEBASE ADHESIVE</u> Homogeneous, Brown, Fibrous, Bound	MAST	98 %	CELL	2 %	ND
M2.3A	A1219147	<u>COVEBASE ADHESIVE</u> Homogeneous, Cream, Fibrous, Bound	MAST	98 %	CELL	2 %	ND

CAROLINA ENVIRONMENTAL, INC.
 107 New Edition Court, Cary, NC 27511
 Phone: 919-481-1413 Fax: 919-481-1442

Project: GSD - 1539 11th Ave.; 111102-GSDA

Lab Code: A11-8798

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION					% ASBESTOS
M2.3B	A1219148	<u>COVEBASE ADHESIVE</u> Homogeneous, Cream, Fibrous, Bound	MAST	98 %	CELL	2 %	ND
M2.3C	A1219149	<u>COVEBASE ADHESIVE</u> Homogeneous, Cream, Fibrous, Bound	MAST	98 %	CELL	2 %	ND
F6.1A	A1219150	<u>CARPET ADHESIVE</u> Homogeneous, Yellow, Fibrous, Bound	MAST	95 %	CELL SYNT	2 % 3 %	ND
F6.1B	A1219151	<u>CARPET ADHESIVE</u> Homogeneous, Yellow, Fibrous, Bound	MAST	95 %	CELL SYNT	2 % 3 %	ND
F6.1C	A1219152	<u>CARPET ADHESIVE</u> Homogeneous, Yellow, Fibrous, Bound	MAST	95 %	CELL SYNT	2 % 3 %	ND
F6.2A	A1219153	<u>CARPET ADHESIVE</u> Homogeneous, Green, Fibrous, Bound	MAST	95 %	CELL SYNT	2 % 3 %	ND
M6.1A	A1219154	<u>CEILING TILE</u> Heterogeneous, White, Grey, Fibrous, Loosely Bound	PAINT PERL	5 % 25 %	CELL FBGL	65 % 5 %	ND

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Project: GSD - 1539 11th Ave., 111102-GSDA

Lab Code: A11-8798

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS			
M6.1B	A1219155	<u>CEILING TILE</u> Heterogeneous, White, Grey, Fibrous, Loosely Bound	ND			
		PAINT 5 % CELL 65 %				
		PERL 25 % FBGL 5 %				
M6.1C	A1219156	<u>CEILING TILE</u> Heterogeneous, White, Grey, Fibrous, Loosely Bound	ND			
		PAINT 5 % CELL 35 %				
		PERL 25 % FBGL 35 %				
M6.2A	A1219157	<u>CEILING TILE</u> Heterogeneous, White, Grey, Fibrous, Loosely Bound	ND			
		PAINT 5 % CELL 35 %				
		PERL 25 % FBGL 35 %				
M6.2B	A1219158	<u>CEILING TILE</u> Heterogeneous, White, Grey, Fibrous, Loosely Bound	ND			
		PAINT 5 % CELL 35 %				
		PERL 25 % FBGL 35 %				
M6.2C	A1219159	<u>CEILING TILE</u> Heterogeneous, White, Grey, Fibrous, Loosely Bound	ND			
		PAINT 5 % CELL 65 %				
		PERL 25 % FBGL 5 %				
M6.3A	A1219160	<u>CEILING TILE</u> Heterogeneous, White, Grey, Fibrous, Loosely Bound	ND			
		PAINT 5 % CELL 65 %				
		PERL 25 % FBGL 5 %				
M6.3B	A1219161	<u>CEILING TILE</u> Heterogeneous, White, Grey, Fibrous, Loosely Bound	ND			
		PAINT 5 % CELL 65 %				
		PERL 25 % FBGL 5 %				

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Lab Code: A11-8798

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS	
M6.3C	A1219162	<u>CEILING TILE</u> Heterogeneous, White, Grey, Fibrous, Loosely Bound	PAINT 5 %	CELL 65 %
			PERL 25 %	FBGL 5 %
M7.1A	A1219163	<u>WINDOW GLAZING</u> Heterogeneous, Grey, Non-fibrous, Bound	PAINT 5 %	
			CACO 20 %	
			BIND 75 %	
M7.1B	A1219164	<u>WINDOW GLAZING</u> Heterogeneous, Grey, Non-fibrous, Bound	PAINT 5 %	
			CACO 20 %	
			BIND 75 %	
M7.1C	A1219165	<u>WINDOW GLAZING</u> Heterogeneous, Grey, Non-fibrous, Bound	PAINT 5 %	
			CACO 20 %	
			BIND 75 %	
M11.1A	A1219166	<u>PANEL ADHESIVE</u> Heterogeneous, Black, Fibrous, Bound	CHRY 10%	CACO 10 %
			MAST 80 %	
M11.2A	A1219167	<u>PANEL ADHESIVE</u> Homogeneous, Brown, Fibrous, Bound	CACO 20 %	CELL <1 %
			MAST 80 %	
M11.3A	A1219168	<u>PANEL ADHESIVE</u> Homogeneous, Yellow, Fibrous, Bound	CACO 20 %	CELL <1 %
			MAST 80 %	

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 Phone: 919-481-1413 Fax: 919-481-1442

Project: GSD - 1539 11th Ave., 111102-GSDA

Lab Code: A11-8798

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS			
S3.1A	A1219169A	<u>SKIM COAT</u>	ND			
		Heterogeneous, White, Non-fibrous, Bound				
		PAINT	5 %			
		SILI	10 %			
		BIND	85 %			
	A1219169B	<u>PLASTER</u>	ND			
		Homogeneous, Grey, Fibrous, Bound				
		SILI	65 %	HAIR	<1 %	
		BIND	35 %			
S3.1B	A1219170A	<u>SKIM COAT</u>	ND			
		Heterogeneous, White, Non-fibrous, Bound				
		SILI	10 %			
		BIND	90 %			
	A1219170B	<u>PLASTER</u>	ND			
		Homogeneous, Grey, Fibrous, Bound				
		SILI	65 %	HAIR	<1 %	
		BIND	35 %			
S3.1C	A1219171A	<u>SKIM COAT</u>	ND			
		Heterogeneous, White, Non-fibrous, Bound				
		SILI	10 %			
		BIND	90 %			
	A1219171B	<u>PLASTER</u>	ND			
		Homogeneous, Grey, Fibrous, Bound				
		SILI	65 %	HAIR	<1 %	
		BIND	35 %			
S3.1D	A1219172A	<u>SKIM COAT</u>	ND			
		Heterogeneous, White, Non-fibrous, Bound				
		SILI	10 %			
		BIND	85 %			
		PAINT	5 %			

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS		
	A1219172B	<u>PLASTER</u> Homogeneous, Grey, Fibrous, Bound	ND		
		SILI 65 % HAIR <1 %			
		BIND 35 %			
S3.1E	A1219173	<u>SKIM COAT</u> Heterogeneous, White, Non-fibrous, Bound	ND		
kim coat only. No grey plaster present.		SILI 10 %			
		BIND 85 %			
		PAINT 5 %			
S3.1F	A1219174	<u>SKIM COAT</u> Heterogeneous, White, Non-fibrous, Bound	ND		
kim coat only. No grey plaster present.		SILI 10 %			
		BIND 85 %			
		PAINT 5 %			
S3.1G	A1219175A	<u>SKIM COAT</u> Heterogeneous, White, Non-fibrous, Bound	ND		
		SILI 10 %			
		BIND 85 %			
		PAINT 5 %			
	A1219175B	<u>PLASTER</u> Homogeneous, Grey, Fibrous, Bound	ND		
		SILI 65 % HAIR <1 %			
		BIND 35 %			
S3.2A	A1219176A	<u>SKIM COAT</u> Heterogeneous, White, Non-fibrous, Bound	ND		
		SILI 10 %			
		BIND 85 %			
		PAINT 5 %			
	A1219176B	<u>PLASTER</u> Homogeneous, Grey, Fibrous, Bound	ND		
		SILI 65 % HAIR <1 %			
		BIND 35 %			

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS		
S3.2B	A1219177A	<u>SKIM COAT</u> Heterogeneous, White, Non-fibrous, Bound	ND		
		SILI 10 %			
		BIND 85 %			
		PAINT 5 %			
	A1219177B	<u>PLASTER</u> Homogeneous, Grey, Fibrous, Bound	ND		
		SILI 65 %	HAIR	<1 %	
		BIND 35 %			
S3.2C	A1219178A	<u>SKIM COAT</u> Heterogeneous, White, Non-fibrous, Bound	ND		
		SILI 10 %			
		BIND 85 %			
		PAINT 5 %			
	A1219178B	<u>PLASTER</u> Homogeneous, Grey, Fibrous, Bound	ND		
		SILI 65 %	HAIR	<1 %	
		BIND 35 %			
S3.2D	A1219179	<u>SKIM COAT</u> Heterogeneous, White, Non-fibrous, Bound	ND		
		SILI 10 %			
		BIND 85 %			
		PAINT 5 %			
		Skim Coat only. No grey plaster present.			
S3.2E	A1219180A	<u>TEXTURE COAT</u> Heterogeneous, White, Non-fibrous, Bound	ND		
		SILI 15 %			
		CACO 75 %			
		PAINT 10 %			
	A1219180B	<u>SKIM COAT</u> Heterogeneous, White, Non-fibrous, Bound	ND		
		SILI 10 %			
		BIND 85 %			
		PAINT 5 %			
		No grey plaster present.			

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CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS			
S3.2F	A1219181A	<u>SKIM COAT</u>	ND			
		Heterogeneous, White, Non-fibrous, Bound				
		SILI	10 %			
		BIND	85 %			
		PAINT	5 %			
	A1219182B	<u>PLASTER</u>	ND			
		Homogeneous, Grey, Fibrous, Bound				
		SILI	65 %	HAIR	<1 %	
		BIND	35 %			
S3.2G	A1219182A	<u>SKIM COAT</u>	ND			
		Heterogeneous, White, Non-fibrous, Bound				
		SILI	10 %			
		BIND	85 %			
		PAINT	5 %			
	A1219183B	<u>PLASTER</u>	ND			
		Homogeneous, Grey, Fibrous, Bound				
		SILI	65 %	HAIR	<1 %	
		BIND	35 %			
F1.1A	A1219183	<u>SHEET FLOORING</u>	ND			
		Heterogeneous, Grey, Fibrous, Bound				
		VINYL	30 %	CELL	50 %	
		TAR	15 %	SYNT	5 %	
F4.2A	A1219184	<u>CONCRETE THINSET</u>	ND			
		Heterogeneous, Grey, Fibrous, Bound				
		SILI	10 %	CELL	2 %	
		BIND	88 %			
T5.1A	A1219185	<u>FIBERGLASS PATCH MATERIALS</u>	ND			
		Heterogeneous, White, Yellow, Fibrous, Loosely Bound				
		BIND	20 %	FBGL	80 %	

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Lab Code: A11-8798

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS	
M15.1A	A1219186	<u>BRICK/MORTAR</u> Heterogeneous, Red, Grey, Fibrous, Bound	ND	
		SILI 50 %		
		BIND 50 %		
		PAINT <1 %		
M15.1B	A1219187	<u>BRICK/MORTAR</u> Heterogeneous, Red, Grey, Fibrous, Bound	ND	
		SILI 50 %		
		BIND 50 %		
		PAINT <1 %		
M15.1C	A1219188	<u>BRICK/MORTAR</u> Heterogeneous, Red, Grey, Fibrous, Bound	ND	
		SILI 50 %		
		BIND 50 %		
		PAINT <1 %		
F4.1A	A1219189	<u>FLOOR LEVELER</u> Heterogeneous, White, Fibrous, Bound	ND	
		SILI 10 %	CELL 2 %	
		BIND 85 %		
		MAST 3 %		
F4.1B	A1219190	<u>FLOOR LEVELER</u> Heterogeneous, White, Fibrous, Bound	ND	
		SILI 10 %	CELL 2 %	
		BIND 85 %		
		MAST 3 %		
F4.1C	A1219191	<u>FLOOR LEVELER</u> Heterogeneous, White, Fibrous, Bound	ND	
		SILI 10 %	CELL 2 %	
		BIND 85 %		
		MAST 3 %		
F3.1A	A1219192	<u>FLOOR TILE</u> Homogeneous, Red, Fibrous, Tightly Bound	CHRY 2%	
		CHRY 2%	CACO 15 %	
		VINYL 83 %		

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CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION					% ASBESTOS
F5.7A	A1219193	<u>MASTIC</u> Homogeneous, Black, Fibrous, Bound	MAST	98 %	CELL	2 %	ND
F3.1B	A1219194	<u>SAMPLE NOT ANALYZED PER COC</u>					
F5.7B	A1219195	<u>MASTIC</u> Homogeneous, Black, Fibrous, Bound	MAST	98 %	CELL	2 %	ND
F3.1C	A1219196	<u>SAMPLE NOT ANALYZED PER COC</u>					
F5.7C	A1219197	<u>MASTIC</u> Homogeneous, Black, Fibrous, Bound	MAST	98 %	CELL	2 %	ND
F2.1A	A1219198	<u>FLOOR TILE</u> Homogeneous, Grey, Non-fibrous, Tightly Bound	CACO	15 %			ND
			VINYL	85 %			
F5.1A	A1219199	<u>MASTIC</u> Homogeneous, Yellow, Fibrous, Bound	MAST	98 %	CELL	2 %	ND

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
F2.1B	A1219200	<u>FLOOR TILE</u> Homogeneous, Grey, Non-fibrous, Tightly Bound CACO 15 % VINYL 85 %	ND
F5.1B	A1219201	<u>MASTIC</u> Homogeneous, Yellow, Fibrous, Bound MAST 98 % CELL 2 %	ND
F2.1C	A1219202	<u>FLOOR TILE</u> Homogeneous, Grey, Non-fibrous, Tightly Bound CACO 15 % VINYL 85 %	ND
F5.1C	A1219203	<u>MASTIC</u> Homogeneous, Yellow, Fibrous, Bound MAST 98 % CELL 2 %	ND
F2.2A	A1219204	<u>FLOOR TILE</u> Homogeneous, Cream, Grey, Fibrous, Tightly Bound CHRY 5% CACO 15 % VINYL 80 %	CHRY 5%
F5.2A	A1219205	<u>MASTIC</u> Homogeneous, Yellow, Fibrous, Bound MAST 98 % CELL 2 %	ND
F2.2B	A1219206	<u>SAMPLE NOT ANALYZED PER COC</u>	

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CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
F5.2B	A1219207	<u>MASTIC</u> Homogeneous, Yellow, Fibrous, Bound MAST 98 % CELL 2 %	ND
F2.2C	A1219208	<u>SAMPLE NOT ANALYZED PER COC</u>	
F5.2C	A1219209	<u>MASTIC</u> Homogeneous, Yellow, Fibrous, Bound MAST 98 % CELL 2 %	ND
F2.3A	A1219210	<u>FLOOR TILE</u> Homogeneous, Grey, Fibrous, Tightly Bound CHRY 15% VINYL 85 %	CHRY 15%
F5.3A	A1219211	<u>MASTIC</u> Homogeneous, Black, Fibrous, Bound MAST 98 % CELL 2 %	ND
F2.3B	A1219212	<u>SAMPLE NOT ANALYZED PER COC</u>	
F5.3B	A1219213	<u>MASTIC</u> Homogeneous, Black, Fibrous, Bound MAST 98 % CELL 2 %	ND

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CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
F2.3C	A1219214	<u>SAMPLE NOT ANALYZED PER COC</u>	
F5.3C	A1219215	<u>MASTIC</u> Homogeneous, Black, Fibrous, Bound MAST 98 % CELL 2 %	ND
F2.4A	A1219216	<u>FLOOR TILE</u> Homogeneous, Grey, Fibrous, Tightly Bound CHRY 10% CACO 15 % VINYL 75 %	CHRY 10%
F5.4A	A1219217	<u>MASTIC</u> Homogeneous, Black, Fibrous, Bound MAST 98 % CELL 2 %	ND
F2.4B	A1219218	<u>SAMPLE NOT ANALYZED PER COC</u>	
F5.4B	A1219219	<u>MASTIC</u> Homogeneous, Black, Fibrous, Bound MAST 98 % CELL 2 %	ND
F2.4C	A1219220	<u>SAMPLE NOT ANALYZED PER COC</u>	

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CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS	
F5.4C	A1219221	<u>MASTIC</u> Homogeneous, Black, Fibrous, Bound MAST 98 % CELL 2 %	ND	
F2.5A	A1219222	<u>FLOOR TILE</u> Homogeneous, Brown, Non-fibrous, Tightly Bound CACO 15 % VINYL 85 %	ND	
F5.5A	A1219223	<u>MASTIC</u> Homogeneous, Black, Fibrous, Bound CHRY 5% MAST 95 %	CHRY	5%
F2.5B	A1219224	<u>SAMPLE NOT ANALYZED PER COC</u>		
F5.5B	A1219225	<u>SAMPLE NOT ANALYZED PER COC</u>		
F2.5C	A1219226	<u>SAMPLE NOT ANALYZED PER COC</u>		
F5.5C	A1219227	<u>SAMPLE NOT ANALYZED PER COC</u>		

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS	
F2.6A	A1219228	<u>FLOOR TILE</u> Homogeneous, Tan, White, Fibrous, Tightly Bound	CHRY	3%
		CHRY 3% CACO 15% VINYL 82%		
F5.6A	A1219229	<u>MASTIC</u> Homogeneous, Black, Fibrous, Bound	CHRY	5%
		CHRY 5% MAST 95%		
F2.6B	A1219230	<u>SAMPLE NOT ANALYZED PER COC</u>		
F5.6B	A1219231	<u>SAMPLE NOT ANALYZED PER COC</u>		
F2.6C	A1219232	<u>SAMPLE NOT ANALYZED PER COC</u>		
F5.6C	A1219233	<u>SAMPLE NOT ANALYZED PER COC</u>		
F2.7A	A1219234	<u>FLOOR TILE</u> Homogeneous, Cream, Grey, Fibrous, Tightly Bound	CHRY	3%
		CHRY 3% CACO 15% VINYL 82%		

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Lab Code: A11-8798

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS	
F5.8A	A1219235 Homogeneous,	<u>MASTIC</u> Black, Fibrous, Bound CHRY 5% MAST 95%	CHRY	5%
F2.8A	A1219236 Homogeneous,	<u>FLOOR TILE</u> Cream, Grey, Fibrous, Tightly Bound CHRY 10% CACO 15% VINYL 75%	CHRY	10%
F5.9A	A1219237 Homogeneous,	<u>MASTIC</u> Black, Fibrous, Bound CHRY 5% MAST 95%	CHRY	5%

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

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

CLIENT: A.L.M. Consulting, LLC

PROJECT: GSD - 1539 11th Ave.; 111102-GSDA

CEI LAB CODE: A11-8798

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

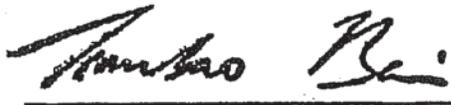
Many vinyl floor tiles have been manufactured using greater than 1% asbestos. Often the asbestos was milled to a fiber size below the detection limit of polarized light microscopy. Therefore, a "None Detected" (ND) reading on vinyl floor tiles does not necessarily exclude the presence of asbestos. Transmission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

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

ANALYST



REVIEWED BY



Tianbao Bai, Ph.D.
Laboratory Director

End of Report

111. 8798

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CAROLINA ENVIRONMENTAL, INC.

ASBESTOS BULK INSPECTION

Client: *General Services Division - Montana*
 Project: *GSD - 1539 11th Ave*
 Address:
 City, State: *Helena, MT. 59601*
 Date: *11-9-11*
 Collector: *R. McGee*
 Project #: *111102-GSDA*

FIELD ID	SAMPLE LOCATION	SAMPLE DESCRIPTION	COND	AMOUNT	NOTES
M1.1A	1st Floor - Adjacent Rm 109	Sheetrock, joint & Tape			
B	↓ - Adjacent Elevator	↓			
C	↓ - W. Stairwell	↓			
M1.2A	2nd Floor - Room 210	Sheetrock, joint, & Tape			
B	1st Floor - Room 112	↓			
C	↓ - Elevator Closet	↓			
M2.1A	1st Floor - E. Stairwell	Green Adhesive under 4"			
B	2nd Floor - Room 216	Cove Base (Grey)			
C	3rd Floor - Adjacent Elevator	↓			
M2.2A,B	1st Floor - Men's Restroom	Brown/Kream Adhesive under 2"			
C	↓ - Women's Restroom	Brown Cove Base			
M2.3A,B	1st Floor - Computer Room	Cream Adhesive under 4"			
C	↓ - Room 110B	Olive Cove Base			
F6.1A	1st Floor - W. Hallway	Carpet Adhesive			Throughout
B	2nd Floor - Adjacent Room 211	↓			↓
C	3rd Floor - E. Hallway Rm 305	↓			↓

FT= Floor Tile CT= Ceiling Tile WLBRD = Wallboard JC= Joint Compound CLSPRY = Ceiling Spray On G. HAA's - 18 samples



CAROLINA ENVIRONMENTAL, INC.

ASBESTOS BULK INSPECTION

Client:		Date:	
Project:	Same	Collector:	Same
Address:		Project #:	
City, State:			

FIELD ID	SAMPLE LOCATION	SAMPLE DESCRIPTION	COND	AMOUNT	NOTES
F6.2A	1st Floor - Room 110B	Green Carpet Adhesive			
M6.1A	1st Floor - Room 102	2'x4' lay-in ceiling panels			g. fissures / Pin Holes
B	2nd Floor - Adjacent Rm 209				
C	3rd Floor - Main Hall - Middle				
M6.2A	1st Floor - Room 102	2'x4' lay-in ceiling panels			g. fissures / Pin Holes
B	2nd Floor - Adjacent Rm 209				
C	3rd Floor - Main Hall - Middle				
M6.3A	2nd Floor - NW Corner - Decoury	2'x4' lay-in ceiling panels			N. Adhesion
B	- NE Corner - ↓				Sw. Craters / Pin Holes
C	- Middle Office Area				
M7.1A	3rd Floor - E. Stairwell Landing	Exterior Window Glazing			Stairwell window systems
B	↓ - W. Stairwell Landing				only
C	2nd Floor - W. Stairwell Landing				
M11.1A	1st Floor - N. Wall Rm 107A	Yellow Panel Adhesive			
M11.2A	↓ - S. Wall Rm 107A	Black			
M11.3A	↓ - N. Wall Rm 107	Brown			

FT= Floor Tile CT= Ceiling Tile WLBRD = Wallboard JC= Joint Compound CLSPRY = Ceiling Spray On
 8 HAs - 16 samples



CAROLINA ENVIRONMENTAL, INC.

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ASBESTOS BULK INSPECTION

Client:		Date:	
Project:	SAWR	Collector:	Seppel
Address:		Project #:	
City, State:			

FIELD ID	SAMPLE LOCATION	SAMPLE DESCRIPTION	COND	AMOUNT	NOTES
S3.1A	1st Floor - Room 102A	Troweled-on Skim Coat			No Texture
B	- Room 107A	over Plaster			
C	- Hallway / Rm 111				
D	✓ - Room 116 Storage (1)				
E	2nd Floor - Room 221 Closet				
F	3rd Floor - Room 301 Closet				
G	4th Floor - Concessions Mens Restroom				
S3.2A	1st Floor - E. Stairwell / Rm 101	Troweled-on Skim Coat over Plaster			Texture
B	- W. Stairwell				
C	✓ - Rm 116 - Storage (2)				
D	2/3 - E. Stairwell 2/3 floor				
E	2/3 - W. Stairwell 2/3 floor				
F	3rd Floor - Above Door Rm 309				
G	4th Floor - Hallway / Rm 402				
F1.1A	4th Floor - 2nd Floor Rm 405	Sheet Flooring under Carpet			
F4.2A	✓ - Mens Restroom	Concrete Thicket under 11"x12"			

FT= Floor Tile CT= Ceiling Tile WLBRD = Wallboard JC= Joint Compound CLSPRY = Ceiling Spray On 4 HAS - 16 Samples



CAROLINA ENVIRONMENTAL, INC.

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ASBESTOS BULK INSPECTION

Client:		Date:	
Project:	Same	Collector:	Same
Address:		Project #:	
City, State:			

FIELD ID	SAMPLE LOCATION	SAMPLE DESCRIPTION	COND	AMOUNT	NOTES
TS.1A	1st Floor - Room 110B	Fiberglass Patch Materials			Various Areas Throughout
M5.1A	1st Floor - E. Stairwell	Interior Brick/Mortar			Under Steps
B	4th Floor - Men's Restroom				Pipe Chase/Kranspan
C	↓ Women's Restroom				↓
F4.1A	1st Floor - Hallway	Floor Lender			
B	2nd Floor - Room 202				
C	3rd Floor - Room 300				
F3.1A/FS.7A	1st Floor - Computer Room	9" x 9" Red/Green VFT/Mastic			(6) samples per HHA
F3.1B/FS.7B	2nd Floor - Room 200/202				
F3.1C/FS.7C	3rd Floor - Room 300/302				
F2.1A/FS.1A	1st Floor - Room 101/W. Wall	12" x 12" Gray/White VFT/Bin. Mastic			
B	↓ Middle				
C	↓ W. Entry				
F2.2A/FS.2A	1st Floor - Men's Restroom	12" x 12" Green/Gray VFT/Bin. Mastic			
B	↓				
C	↓ Women's Restroom				

FT= Floor Tile CT= Ceiling Tile WLBRD = Wallboard JC= Joint Compound CLSPRY = Ceiling Spray On
 8HAs - 25 Samples



CAROLINA ENVIRONMENTAL, INC.

ASBESTOS BULK INSPECTION

Client: _____ Date: _____
 Project: _____ Collector: Same
 Address: _____ Project #: _____
 City, State: _____

FIELD ID	SAMPLE LOCATION	SAMPLE DESCRIPTION	COND	AMOUNT	NOTES
F2.3A/FS.3A	1st Floor - Elevator Closet	12" x 12" Gray/Red VFT / Black Mastic			(6) samples per HA
B / B	↓	↓			
C / C	↓	↓			
F2.4A/FS.4A	1st Floor - Rm 116 Closet	12" x 12" Gray/Blk Wht/Lght. Spckled VFT / Black Mastic			All samples collected from Rm 116
B / B	↓	↓			
C / C	↓	↓			
F2.5A/FS.5A	2nd Floor - Men's Restroom	12" x 12" Brown/Dk. Brn VFT / Black Mastic			(6) Samples per HA
B / B	↓	↓			
C / C	↓	↓			
F2.6A/FS.6A	3rd Floor - Men's Restroom - S.W.	12" x 12" Tan/White VFT / Black Mastic			
B / B	↓	↓			
C / C	↓	↓			
F2.7A/FS.7A	1st Floor - Restroom Rm 116	12" x 12" Cream/Gray VFT / Black Mastic			Scrap VFT as Mandatories
F2.8A/FS.8A	4th Floor - Adjacent Rm 412	12" x 12" Gray/Pink VFT / Black Mastic			Throughcast 4th Floor

FT= Floor Tile CT= Ceiling Tile WLBRD = Wallboard JC= Joint Compound CLSPRY = Ceiling Spray On @ HAs - 28 samples (including mastic)



CAROLINA ENVIRONMENTAL, INC.

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

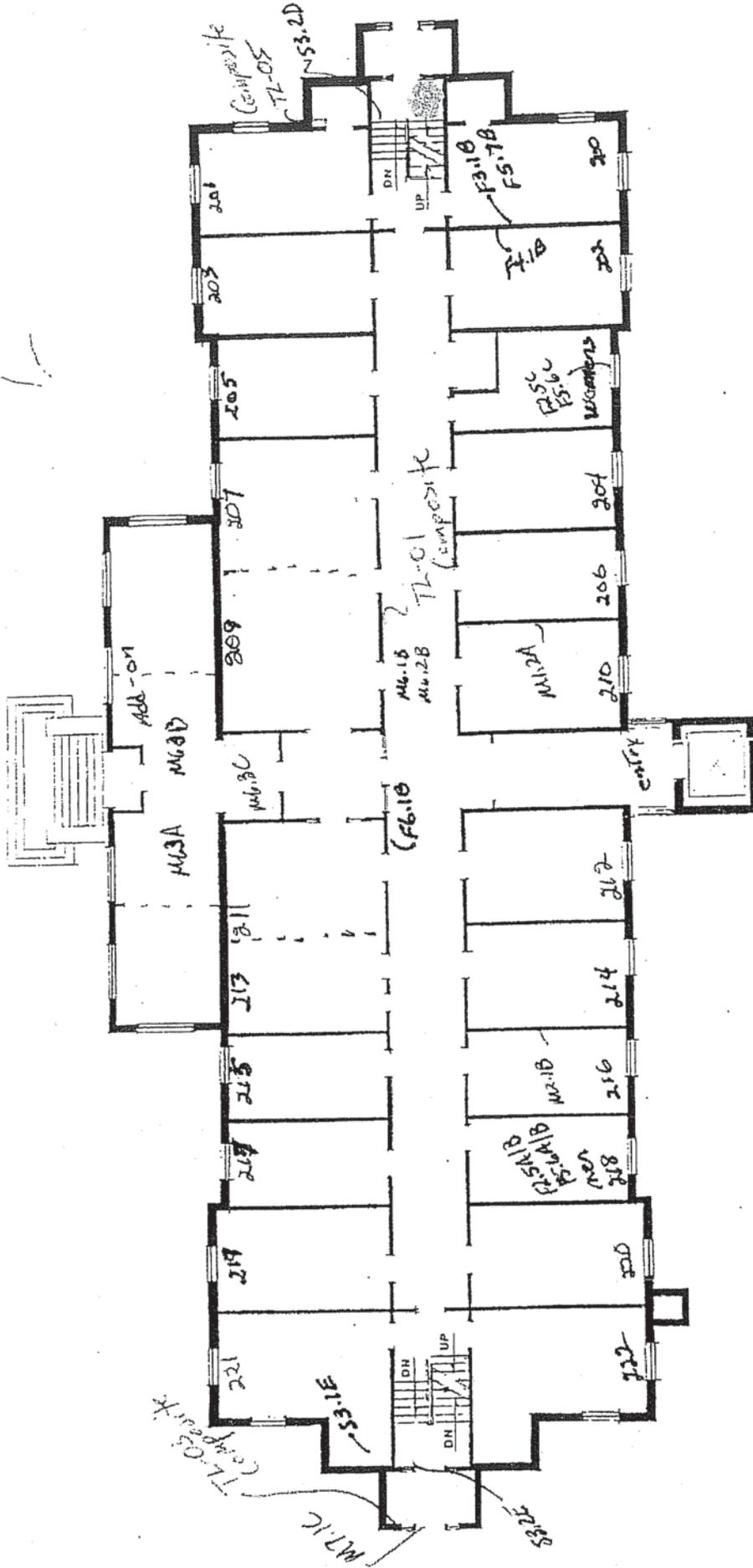
A 1219 BS - A 1219 237

CHAIN OF CUSTODY RECORD ASBESTOS/LEAD ANALYSIS

Client: A.L.M. Consulting, LLC		Project Manager: Ryan D. McCre															
Address: P.O. Box 7886 / Hickory Hill, NC 27604		Phone: 919-461-4037															
Email: cmece@box.net		Fax: 919-449-0582															
PO #:																	
PROJECT DESCRIPTION	PROJECT CODE	ASBESTOS					LEAD PAINT				TURN-AROUND TIME <small>* Lead and TEM results require 2 Day TAT or longer</small>						
		PLM Bulk	PLM Point Count	PLM Gravimetric	PCM Air	TEM Bulk	TEM Air	Lead Paint	Lead Wipe	Lead Soil		Lead Air	Other Analysis				
GSD - 1539 11th Ave	111102 - GSDA	X								X				<input type="checkbox"/> 5 DAYS <input checked="" type="checkbox"/> 3 DAYS - Local <input checked="" type="checkbox"/> 2 DAYS Asbestos <input type="checkbox"/> 1 DAY * <input type="checkbox"/> SAME DAY*			
GSD - 1539 11th Ave	111102 - GSDL									X							
														CLIENT ID# 23625			
REMARKS: * Please Provide Positive Stop Analysis														Accept Samples <input checked="" type="checkbox"/>	Reject Samples <input type="checkbox"/>	Samples will be disposed of 30 days after analysis, unless otherwise requested.	
Relinquished By: Ryan D. McCre		Date / Time: 11-11-11		Received By: Ryan D. McCre		Date / Time: 11-11-11										Date / Time: 11-11-11	Date / Time: 11-11-11
Relinquished By: Ryan D. McCre		Date / Time: 11-11-11		Received By: Ryan D. McCre		Date / Time: 11-11-11										Date / Time: 11-14-11	Date / Time: 11-14-11

APPENDIX B
SAMPLE LOCATION DRAWINGS

60 LIGHTS



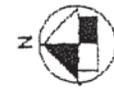
14



INSTITUTIONS BUILDING

2nd floor plan

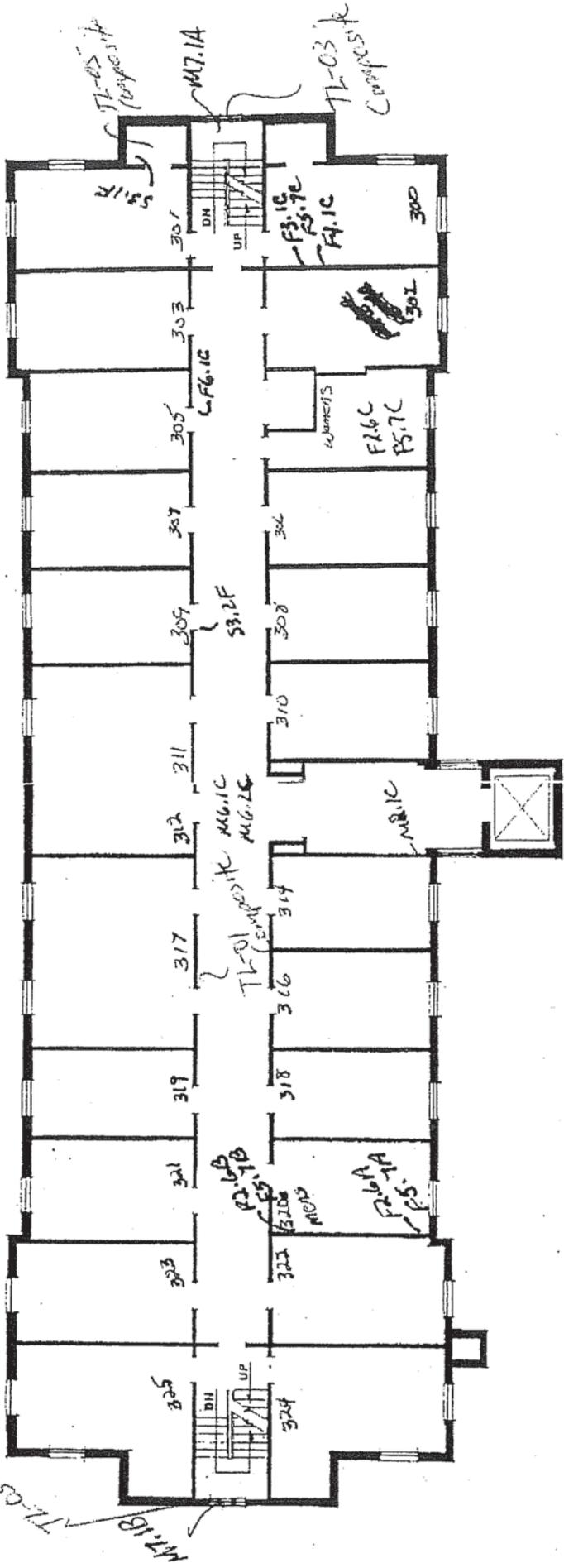
1539 11th Avenue



14

56 lights

WT-18 TL-03 (deposit)



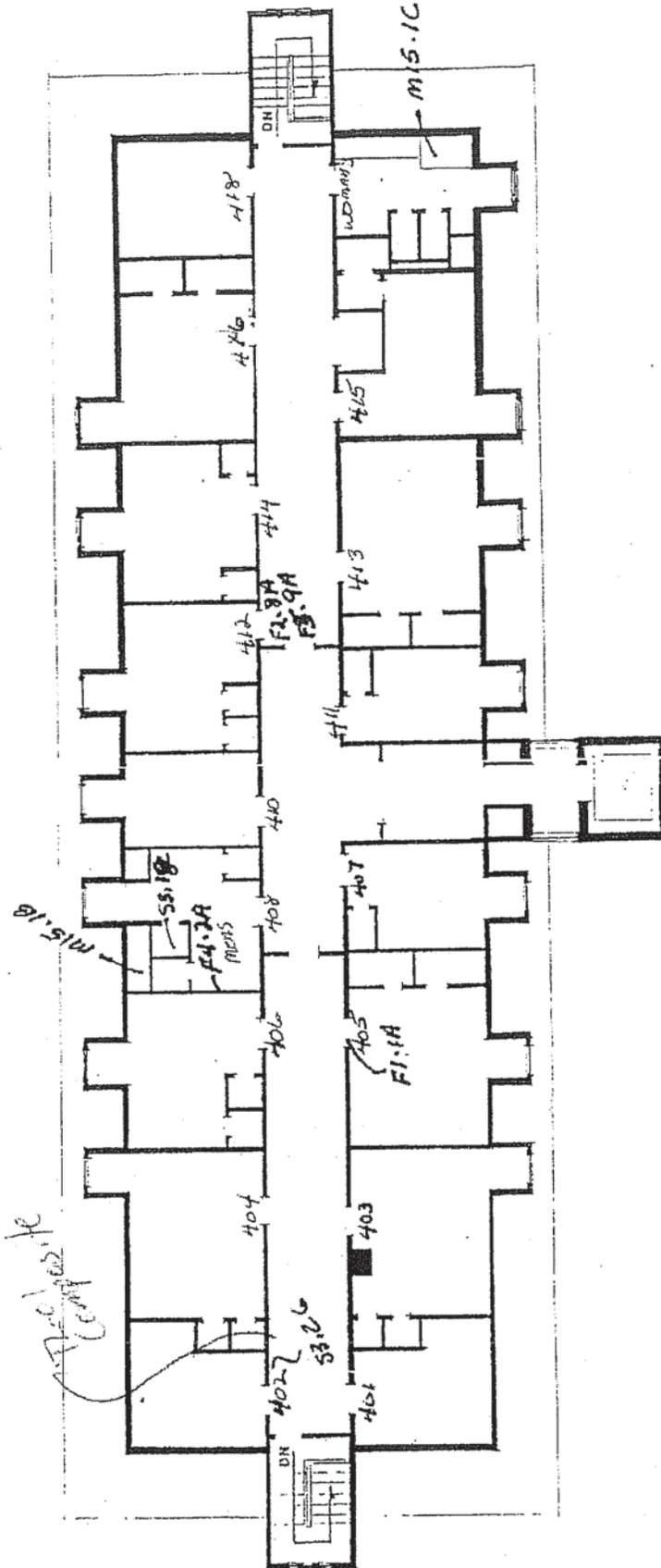
INSTITUTIONS BUILDING

3rd floor plan

1539 11th Avenue



35 Furn. at 1.24



INSTITUTIONS BUILDING

4th floor plan

1539 11th Avenue



- F. The off street loading and parking, landscaping, screening, and dimensional requirements of this title are required unless specifically exempted in those respective chapters. (Ord. 3097, 4-7-2008)

11-2-2: **INTENT OF ZONING DISTRICTS:** The city is hereby divided and classified into the following zoning districts that are intended to provide for development in conformance with the system of services available, the slope of the land, or other limiting factors to serve such development while preserving the quality of the area. These zoning districts are described as follows:

- A. The OSR (open space/residential) district primarily provides for residential development consistent with physical constraints, the natural capacity of the land, and available public and private services. The regulations seek to minimize danger from wildland fires, storm water flooding, soil erosion, and other environmental hazards. The regulations also seek to mitigate traffic hazards, protect the natural scenic character of hillside areas, promote the safety and well being of property owners, and ensure the efficient expenditure of public funds.
- B. The R-~~1~~R-2 (residential) districts provide for residential dwellings and limited nonresidential development that protects and enhances the residential nature of the area.
- C. The R-3 (residential) district provides for the development of a mixture of residential structures to serve varied housing needs and allows limited compatible nonresidential uses.
- D. The R-4~~R~~-O (residential-office) districts provide for a compatible mix of higher density residential development with professional and business offices and associated service uses.
- E. The B-1 (neighborhood business) district provides for a compatible mixture of residential, public, and small scale commercial uses that serve as transitions between zoning districts.
- F. The B-2 (general commercial) district provides for compatible residential uses and a broad range of commercial and service uses that serve large areas of the city and that are normally required to sustain a community.

- G. The B-3 (central business) district is the central focus of the city's business, government, service, and cultural activities, and allows compatible residential development.
- H. The CLM (commercial-light manufacturing) district provides for the community's commercial and light manufacturing needs. These uses generally need access to the city's transportation amenities and should be located to reduce adverse impacts upon residential neighborhoods in the city.
- I. The M-I (manufacturing and industrial) district provides for manufacturing and other industrial uses.
- J. The PLI (public lands and institutions) district provides for and applies only to public and quasi-public institutional uses and lands, and recreational, educational, and public service activities for the general benefit of the citizens of the city.
- K. The T (transitional) district provides for an orderly and harmonious transition between zoning districts where appropriate. Each transitional district has unique standards and is intended to be temporary and phased out over time.
- L. The airport district provides for airport uses and facilities necessary for the operation, maintenance, and protection of airports. Associated retail and service uses, public institutional uses, aeronautical related manufacturing, public service, and limited recreational activities are also permitted. (Ord. 3097, 4-7-2008)

11-2-3: **LAND USE TABLE FOR ZONING DISTRICTS:** Permitted, conditionally permitted, and not permitted uses for the zoning districts are shown in table 1 of this section. The key for this table is as follows:

P = The use is permitted in the district by right, consistent with applicable development standards.

CUP = The use is allowed in the district through the conditional use process.

NP = The use is not permitted in the district.

(Ord. 3104, 11-3-2008)

TABLE 1
PRINCIPAL LAND USES BY DISTRICT

Use	OSR	R-1/R-2	R-3	R-4/R-O	B-1	B-2	B-3	CLM	M-I	PLJ	Airport	Supplemental Requirements
RESIDENTIAL USES:												
Boarding/rooming house, 1-3 residents	P	P	P	P	P	P	P	P	P	NP	NP	B-2, B-3, CLM and M-I districts, see subsection 11-2-5C this chapter
Boarding/rooming house, 4-20 residents	NP	NP	NP	P	P	P	P	P	P	NP	NP	B-2, B-3, CLM and M-I districts, see subsection 11-2-5C this chapter
Community residential facility, type I, 1-12 residents	P	P	P	P	P	P	P	CUP	NP	NP	NP	
Community residential facility, type II, 13 or more residents	NP	CUP	CUP	CUP	P	P	P	CUP	NP	P	NP	
Mobile home park	NP	CUP	CUP	P	CUP	CUP	NP	NP	NP	P	NP	See chapter 7 of this title
Residence, single-dwelling unit	P	P	P	P	P	P	P	P	P	NP	NP	B-2, B-3, CLM and M-I districts, see subsection 11-2-5C this chapter

Use	OSR	R-1/R-2	R-3	R-4/R-O	B-1	B-2	B-3	CLM	M-I	PLI	Airport	Supplemental Requirements
Residence, two-dwelling units	CUP	P	P	P	P	P	P	P	NP	NP	NP	B-2, B-3 and CLM districts, see subsection 11-2-5C of this chapter
Residence, multiple-dwelling units (3 or more units)	NP	CUP	P	P	P	P	P	CUP	NP	NP	NP	
NONRESIDENTIAL USES:												
Agricultural Uses:												
Horticulture												
Community Services/Uses:												
Administrative government agency	NP	NP	NP	P	P	P	P	P	NP	P	P	
Animal shelter	NP	NP	NP	NP	NP	CUP	NP	CUP	CUP	P	NP	
Community center	NP	NP	NP	NP	P	P	P	P	NP	P	NP	
Community cultural facility	NP	CUP	CUP	CUP	P	P	P	NP	NP	P	P	
Correctional facility	NP	NP	NP	NP	NP	NP	NP	CUP	CUP	CUP	NP	
Prerelease center	NP	NP	NP	NP	NP	NP	NP	CUP	CUP	CUP	NP	
Public safety facility	CUP	CUP	CUP	CUP	P	P	P	P	NP	P	P	
Worship facility	NP	CUP	CUP	P	P	P	P	P	NP	P	NP	

Use	OSR	R-1/R-2	R-3	R-4/R-O	B-1	B-2	B-3	CLM	M-I	PLI	Airport	Supplemental Requirements
Education:												
Higher education	NP	CUP	CUP	CUP	CUP	CUP	CUP	P	NP	P	NP	
Instructional facility	NP	NP	NP	P	P	P	P	P	P	P	P	
K-12	NP	CUP	CUP	CUP	CUP	CUP	CUP	CUP	NP	P	NP	
Food And Beverage Sales:												
Casino	NP	NP	NP	NP	NP	CUP	CUP	CUP	NP	NP	NP	See chapter 40 of th title.
Restaurant	NP	NP	NP	P	P	P	P	CUP	NP	NP	P/CUP	Airport district, see subsection 11-2-5E2 of this chapter
Restaurant, drive-in	NP	NP	NP	NP	NP	P	P	NP	NP	NP	NP	
Specialized food production	NP	NP	NP	NP	P	P	P	P	P	NP	NP	
Tavern	NP	NP	NP	NP	NP	P	P	CUP	NP	NP	P/CUP	Airport district, see subsection 11-2-5E2 of this chapter; PLI district, see subsection 11-2-5D o this chapter
Healthcare:												
Healthcare center	NP	NP	NP	P	P	P	P	NP	NP	NP	NP	
Healthcare facility	NP	NP	NP	CUP	CUP	P	P	NP	NP	P	NP	

Use	OSR	R-1/R-2	R-3	R-4/R-O	B-1	B-2	B-3	CLM	M-I	PLI	Airport	Supplemental Requirements
Industrial/Manufacturing:												
Contractor yard	NP	NP	NP	NP	NP	CUP	NP	P	P	NP	NP	
Industrial, heavy	NP	NP	NP	NP	NP	NP	NP	CUP	P	NP	NP	
Industrial, light	NP	NP	NP	NP	CUP	CUP	CUP	P	P	NP	P	
Industrial park	NP	NP	NP	NP	NP	NP	NP	CUP	P	NP	NP	
Junkyard	NP	NP	NP	NP	NP	NP	NP	CUP	P	NP	NP	
Motor vehicle wrecking facility	NP	NP	NP	NP	NP	NP	NP	CUP	P	NP	NP	
Overnight Accommodations:												
Bed and breakfast	CUP	CUP	CUP	CUP	P	P	P	NP	NP	NP	NP	
Campground/RV park	NP	NP	NP	NP	NP	CUP	NP	CUP	NP	NP	NP	
Country inn	NP	NP	CUP	CUP	P	P	P	NP	NP	NP	NP	
Emergency shelter	NP	NP	NP	CUP	CUP	CUP	CUP	CUP	NP	CUP	NP	
Hotel/motel	NP	NP	NP	NP	CUP	P	P	NP	NP	NP	CUP	
Recreation, Indoor:												
Indoor entertainment, sports and recreation	NP	NP	NP	CUP	P	P	P	P	NP	NP	CUP	

Use	OSR	R-1/R-2	R-3	R-4/R-O	B-1	B-2	B-3	CLM	M-I	PLI	Airport	Supplemental Requirements
Recreation, Outdoor:												
Open space	P	P	P	P	P	P	P	P	P	P	P	P
Outdoor entertainment, sports and recreation	NP	NP	NP	NP	NP	CUP	CUP	CUP	CUP	P	CUP	
Parks/playgrounds	P	P	P	P	P	P	P	P	NP	P	CUP	
Rental And Repair:												
General repair	NP	NP	CUP	CUP	P	P	P	P	P	NP	NP	R-3, R-O and B-1 districts, see subsection 11-2-5F of this chapter
Large equipment rental	NP	NP	NP	NP	NP	P	NP	P	P	NP	NP	
Small equipment rental	NP	NP	NP	NP	P	P	NP	P	P	NP	NP	
Sales:												
Agriculture supply sales	NP	NP	NP	NP	NP	P	NP	P	P	NP	NP	
Construction material sales	NP	NP	NP	NP	NP	P	NP	P	P	NP	NP	
General/specialty sales	NP	NP	NP	NP	P	P	P	CUP	NP	NP	NP	B-1 district, see subsection 11-2-5B of this chapter
Manufactured housing sales	NP	NP	NP	NP	NP	P	NP	P	P	NP	NP	

Use	OSR	R-1/R-2	R-3	R-4/R-O	B-1	B-2	B-3	CLM	M-I	PLI	Airport	Supplemental Requirements
Secondhand sales/auction sales	NP	NP	NP	NP	P	P	P	P	NP	NP	NP	B-1 district, see subsection 11-2-5B of this chapter
Sexually oriented business	NP	NP	NP	NP	NP	NP	NP	CUP	NP	NP	NP	
Shopping center	NP	NP	NP	NP	NP	CUP	CUP	CUP	NP	NP	NP	
Services:												
Administrative services	NP	NP	NP	P	P	P	P	P	NP	NP	P	
Artisan shop	NP	NP	CUP	CUP	P	P	P	P	P	NP	NP	
Commercial kennel	NP	NP	NP	NP	CUP	CUP	CUP	P	P	NP	NP	
Crematorium	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	
Daycare, adult (up to 12)	P	P	P	P	P	P	P	CUP	NP	P	NP	
Daycare center (13 or more children)	NP	CUP	CUP	CUP	P	P	P	CUP	NP	P	NP	See chapter 38 of this title
Daycare, family	P	P	P	P	P	P	P	CUP	NP	NP	NP	
Daycare, group	P	P	P	P	P	P	P	CUP	NP	NP	NP	
Financial services	NP	NP	NP	CUP	P	P	P	CUP	NP	NP	NP	
Funeral home	NP	NP	NP	NP	P	P	P	NP	NP	NP	NP	
General/professional services	NP	NP	CUP	P	P	P	P	P	P	NP	NP	

Use	OSR	R-1/R-2	R-3	R-4/R-O	B-1	B-2	B-3	CLM	M-I	PLI	Airport	Supplemental Requirements
Veterinary clinic, large animals	NP	NP	NP	NP	NP	CUP	NP	P	P	NP	NP	
Veterinary clinic, small animals	NP	NP	NP	NP	P	P	P	P	P	NP	NP	
Storage:												
Agricultural commodity storage facility	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	
Fuel tank farm	NP	NP	NP	NP	NP	NP	NP	CUP	CUP	NP	P	
Ministorage facility	NP	NP	NP	NP	NP	CUP	CUP	P	P	NP	NP	
Warehouse	NP	NP	NP	NP	NP	CUP	NP	P	P	NP	NP	
Temporary Uses By District:												
Carnivals and circuses	NP	NP	NP	NP	NP	P	P	P	P	P	NP	
Itinerant outdoor sales with business license	NP	NP	NP	NP	P	P	P	P	NP	NP	NP	
On site construction office	P	P	P	P	P	P	P	P	P	P	P	
Outdoor concerts and theatrical performances	P	NP	NP	NP	P	P	P	P	P	P	P	
Transportation:												
Airport	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	Airport district, see subsection 11-2-5E of this chapter

Use	OSR	R-1/R-2	R-3	R-4/R-O	B-1	B-2	B-3	CLM	M-I	PLI	Airport	Supplemental Requirements
Bus terminal	NP	NP	NP	NP	CUP	CUP	CUP	P	P	NP	NP	
Freight terminal	NP	NP	NP	NP	NP	NP	NP	P	P	NP	P	
Parking lot	NP	CUP	CUP	CUP	P	P	P	P	P	P	P	See chapter 22 of this title
Parking structure	NP	NP	NP	NP	CUP	CUP	CUP	P	P	P	P	
Railroad yard	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	
Utilities:												
Composting	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	
Recycling	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	
Utility, distributed power	P	P	P	P	P	P	P	P	P	P	P	
Utility, major	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	See subsection 11-2-5G of this chapter
Utility, minor	P	P	P	P	P	P	P	P	P	P	P	See subsection 11-2-5G of this chapter
Vehicle Trade And Service:												
Vehicle fuel sales	NP	NP	NP	NP	NP	P	NP	P	NP	NP	NP	Airport district, see subsection 11-2-5E of this chapter
Vehicle repair	NP	NP	NP	NP	NP	CUP	NP	P	P	NP	NP	

Use	OSR	R-1/R-2	R-3	R-4/R-O	B-1	B-2	B-3	CLM	M-1	PLI	Airport	Supplemental Requirements
Vehicle sales and rental	NP	NP	NP	NP	NP	P	NP	P	NP	NP	P	Airport district, see subsection 11-2-5E of this chapter
Vehicle services	NP	NP	NP	NP	NP	P	NP	P	P	NP	NP	

(Ord. 3097, 4-7-2008; amd. Ord. 3104, 11-3-2008)

APPENDIX C

**CAROLINA ENVIRONMENTAL, INC.
LEAD-BASED PAINT ANALYTICAL RESULTS**

APPENDIX D

**CAROLINA ENVIRONMENTAL, INC.
MOLD-INDOOR AIR QUALITY ANALYTICAL RESULTS**

CAROLINA ENVIRONMENTAL, INC.
107 New Edition Court
Cary, N.C. 27511
Phone: (919)481-1413 Fax: (919)481-1442

LABORATORY REPORT

LEAD IN PAINT

Client: **A.L.M. Consulting, LLC**
P.O. Box 7886
Helena, MT 59604

CEI Lab Code: C11-431
Received: 11-14-11
Reported: 11-16-11

Object: GSD - 1539 11th Ave.; 111102-GSDL

CLIENT ID	CEI LAB ID	PPM (ug/g)	CONCENTRATION % BY WEIGHT
TL-01	CA40284	760	0.076
TL-02	CA40285	630	0.063
Sample contains substrate, potentially affecting results			
TL-03	CA40286	73000	7.3
Sample contains substrate, potentially affecting results			
TL-04	CA40287	4900	0.49
Sample contains substrate, potentially affecting results			
TL-05	CA40288	1000	0.10
TL-06	CA40289	880	0.088
Sample contains substrate, potentially affecting results			

ANALYSIS METHOD: EPA SW846 7420

Reviewed By:



Tianbao Bai, Ph.D.
Laboratory Director

This method has been validated for sample weights of 0.020g or greater. When samples with a weight of less than that are analyzed those results fall outside of the scope of accreditations. The analysis of composite wipe samples as a single samples is not included under AIHA accreditation.

Minimum reporting limit is 20 ug total lead. Sample results denoted with a "less than" (<) sign contain less than 20.0 ug total lead, based on a 40ml sample volume.

Lead samples are not analyzed by Carolina Environmental Inc. Lead samples are submitted to an AIHA NELAP accredited laboratory for lead analysis of soil, dust, paint, and TCLP samples.

Laboratory results represent the analysis of samples as submitted by the client. Information regarding sample

CLIENT ID	CEI LAB ID	PPM (ug/g)	CONCENTRATION % BY WEIGHT
-----------	---------------	------------	------------------------------

Location, description, area, volume, etc., was provided by the client. Unless notified in writing to return samples, Carolina Environmental, Inc. discards client samples after 30 days. This report shall not be reproduced, except in full, without the written consent of Carolina Environmental, Inc.

REGULATORY LIMITS	OSHA Standard: No safe limit. Consumer Products Safety Standard: Greater than 0.06% lead by weight. Federal Lead Standard / HUD: 0.5% lead by weight.
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LEGEND	ug = microgram ml = milliliter	ppm = parts per million Pb = lead	g = grams wt = weight
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End of Report

C11-431

Total Lead



CAROLINA ENVIRONMENTAL, INC.

ASBESTOS-BULK INSPECTION

Client: *General Services Division - Montclair*
 Project: *GSD - 1539 11th Ave*
 Address:
 City, State: *Helena, MT. 59601*
 Date: *11-9-11*
 Collector: *R. Wallace*
 Project #: *111102-GSDL*

FIELD ID	SAMPLE LOCATION	SAMPLE DESCRIPTION	COND	AMOUNT	NOTES
TL-01	<i>Composite 1st, 2nd, 3rd, 4th</i>	<i>White/Cream Base over Plaster</i>			
TL-02	<i>1st Floor Interior Door (swing)</i>	<i>brown Paint on Wood</i>			<i>Composite</i>
TL-03	<i>Exterior Window Sillings</i>	<i>Brown Paint on Wood</i>			<i>Composite</i>
TL-04	<i>Computer Room</i>	<i>Lt. Blue Paint/Cream Base over Plaster</i>			
TL-05	<i>Composite Rm 201/301 Closets</i>	<i>Yellow/Cream Base over Plaster</i>			<i>Throughout</i>
TL-06	<i>1st Floor Hall</i>	<i>Green Paint over Plaster</i>			<i>Throughout</i>

FT= Floor Tile CT= Ceiling Tile WLBRD = Wallboard JC= Joint Compound CLSPRY = Ceiling Spray On
 6 HAs - 6 samples

APPENDIX E

**A.L.M. PERSONNEL ASBESTOS AND LEAD
ACCREDITATIONS AND CERTIFICATIONS**



LABORATORY REPORT

FUNGAL ANALYSIS - AIR

Client:	A.L.M. Consulting, LLC	Sampling Method:	Air Cassette
Address:	P.O. Box 7886 Helena, MT 59604	Analytical Method:	Spore Trap Analysis-102
Project ID:		CEI Lab Code:	111-0878
Project Site:	1539 11th Ave. GSD - IAQ Survey	Date Received:	11/14/2011
		Date Analyzed:	11/14/2011
		Date Reported:	11/17/2011
		Analyzed By:	Marti Bowers

CEI Sample ID	M33693	M33694	M33695	M33696
Client Sample ID	GSD-01	GSD-02	GSD-03	GSD-04
Location	1st Floor Main Hall - N. of Elevator	2nd Floor - N. of Elevator	3rd Floor - N. of Elevator	4th Floor - N. of Elevator
Volume (L)	25	25	25	25
Debris Rating	Heavy	Moderate	Moderate	Moderate
Pollen count				
Mycelial fragments				

	Total Count	Spores/m ³						
<i>Alternaria</i>								
<i>Arthrinium</i>								
Ascospores	3	120	1	40	6	240	3	120
<i>Aspergillus / Penicillium</i>								
Basidiospores	2	80	1	40	1	40	2	80
<i>Bipolaris / Drechslera</i>								
<i>Cercospora</i>								
<i>Chaetomium</i>								
<i>Cladosporium</i>	4	160			2	80	3	120
<i>Curvularia</i>								
<i>Epicoccum</i>								
<i>Fusarium</i>								
<i>Helicomyces / Helicosporium</i>								
<i>Nigrospora</i>								
Oidium / Peronospora								
<i>Periconia / Smits / Myxomycetes</i>	3	120					1	40
<i>Pithomyces</i>								
Rusts								
<i>Spegazzinia</i>								
<i>Stachybotrys</i>								
<i>Stemphylium</i>								
<i>Tetraploa</i>								
<i>Torula</i>								
<i>Ulocladium</i>								
Unspecified Spores								
Total	12	480	2	80	9	360	9	360
Limit of Detection (Spores/m ³)	40		40		40		40	

Comments: No discernable field blank was included with this project.

The Sample(s) in this report was/were received in acceptable condition.

The above results relate only to the items tested, and cannot be extrapolated to anything larger than their original intent. Also, these results cannot be interpreted without physical inspection and consideration for the building's characteristics and factors that may have led to its condition.

Note: Final counts (Spores/m³) are reported to 2 significant figures.

Tianbao Bai
Tianbao Bai, Ph.D., CIH, Lab Director

Marti Bowers
Marti Bowers, Analyst

Final Review By: Tianbao Bai, Ph.D., CIH, Lab Director

AIHA EMPAT Direct No. 103025



LABORATORY REPORT

FUNGAL ANALYSIS - AIR

Client:	A.L.M. Consulting, LLC	Sampling Method:	Air Cassette
Address:	P.O. Box 7886 Helena, MT 59604	Analytical Method:	Spore Trap Analysis-102
Project ID:		CEI Lab Code:	I11-0878
Project Site:	1539 11th Ave. GSD - IAQ Survey	Date Received:	11/14/2011
		Date Analyzed:	11/14/2011
		Date Reported:	11/17/2011
		Analyzed By:	Marti Bowers

CEI Sample ID	M33697	M33698		
Client Sample ID	GSD-05	GSD-06		
Location	Boiler Room (Middle)	Adjacent Boiler Room (SW Corner)		
Volume (L)	25	25		
Debris Rating	Moderate	Moderate		
Pollen count				
Mycelial fragments				

	Total Count	Spores/m ³						
Alternaria								
Arthrinium								
Ascospores	2	80	4	160				
Aspergillus / Penicillium								
Basidiospores			1	40				
Bipolaris / Drechslera								
Cercospora								
Chaetomium								
Cladosporium	1	40	5	200				
Curvularia								
Epicoccum								
Fusarium								
Helicomyces/Helicosporium								
Nigrospora								
Oidium / Peronospora								
Periconia / Simul / Myxomycetes								
Pithomyces								
Rusts								
Spegazzinia								
Stachybotrys								
Stemphylium								
Tetraploa								
Torula								
Ulocladium								
Unspecified Spores								
Total	3	120	10	400				
Limit of Detection (Spores/m ³)	40		40					

Comments: No discernable field blank was included with this project.

The Sample(s) in this report was/were received in acceptable condition.

The above results relate only to the items tested, and cannot be extrapolated to anything larger than their original intent. Also, these results cannot be interpreted without physical inspection and consideration for the building's characteristics and factors that may have led to its condition.

Note: Final counts (Spores/m³) are reported to 2 significant figures.

Tianbao Bai

Marti Bowers

Marti Bowers, Analyst

Final Review By: Tianbao Bai, Ph.D., CIH, Lab Director

AIHA EMPAT Direct No. 103025



CAROLINA ENVIRONMENTAL, INC.

107 New Edition Court, Cary, NC 27511
Tel: 919-481-1413 Fax: 919-481-1442

IT-0878 (10) M33093-M33098

**CHAIN OF CUSTODY RECORD
MICROBIOLOGY ANALYSIS**

Client: A. L. M. Consulting, LLC.	Project Manager: R. M'Gee
Address: P.O. Box 7886 Helena, MT. 59604	Date: 11-10-11
Client ID#: 23625	Phone: 406-461-4057
PO #:	Fax: 406-449-0332
Project: 1539 11th Ave. GSD - IAQ Survey	Email: rmgee@bresnan.net

ANALYSIS CODES		TURN-AROUND TIME
101 Fungi Tape (Direct Surface)	107 Fungi & Bacteria Culture (Bulk, Dust, Wipe)	<input type="checkbox"/> 7-14 DAYS*
102 Fungi Total (Air-O-Cell)	108 Pollen	<input checked="" type="checkbox"/> 3-5 DAYS
103 Fungi Culture (Air)	109 Dust Characterization	<input type="checkbox"/> 2 DAY
104 Fungi Culture (Bulk, Dust, Wipe)	110 Respirable or Total Dust	<input type="checkbox"/> 1 DAY
105 Bacteria Culture (Air)	111 Allergens Mite (Various Species)	<input type="checkbox"/> SAME DAY
106 Bacteria Culture (Bulk, Dust, Wipe)	112 Allergens Animal (Various Species)	* All cultures are 7-14 day TAT

SAMPLE INFORMATION

FIELD ID #	SAMPLE LOCATION	ANALYSIS CODES	AREA (sq. inches)	AIR VOLUME (liters)
GSD-01	1793849 - 1st Floor Main Hall - N. of Elevator	102		25L
GSD-02	1793859 - 2nd Floor			
GSD-03	1793869 - 3rd Floor			
GSD-04	1793879 - 4th Floor			
GSD-05	1793858 - Boiler Room (Middle)			
GSD-06	1793848 - Adjacent Boiler Room (SW corner)			
	↳ Control Sample collected outside 38°F			

REMARKS:
IAQ samples were obtained while the building was vacant - No People plants, etc... outside control sample 38°F.

Relinquished By: <i>[Signature]</i>	Date / Time: 11-11-11 12:00 pm
Received By: <i>[Signature]</i>	Date / Time: 11/14/11 9:15 AM

LAB USE ONLY	
Sample Condition Upon Receipt:	Acceptable <input type="checkbox"/> Not Acceptable <input type="checkbox"/> Explanation:

**Table 1: November 9, 2011 Mold Bioaerosol Sample Summaries
1539 11TH AVENUE - HELENA, MONTANA**

Sample Identification	GSD-06			GSD-01			GSD-02			GSD-03						
	Location	Count/ M ³	% of Total	1st Floor Hallway	2nd Floor Hallway	3rd Floor Hallway	Count/ M ³	% of Total	% of Outside	Count/ M ³	% of Total	% of Outside	Count/ M ³	% of Total	% of Outside	Compared to Outside
	Outside Boiler Room	400	100%	80	80	-320	360	100%	90%	360	100%	90%	360	100%	90%	-40
		Fungal Spore ID			Fungal Spore ID			Fungal Spore ID			Fungal Spore ID			Fungal Spore ID		
<i>Ascospores</i>	160	40%	75%	-40	40	25%	240	67%	150%	240	67%	150%	240	67%	150%	80
<i>Basidiospores</i>	40	10%	200%	40	40	100%	40	11%	100%	40	11%	100%	40	11%	100%	0
<i>Cladosporium</i>	200	50%	80%	-40			80	22%	40%	80	22%	40%	80	22%	40%	-120
<i>Periconia/Smuts/Myxo- mycetes</i>	120	25%	ND/Out	120												
		Fungal Spore ID			Fungal Spore ID			Fungal Spore ID			Fungal Spore ID			Fungal Spore ID		
Sample Identification	GSD-06			GSD-04			GSD-05			GSD-05						
Location	Count/ M ³	% of Total	4th Floor Hallway	Boiler Room	Boiler Room	Boiler Room	Count/ M ³	% of Total	% of Outside	Count/ M ³	% of Total	% of Outside	Count/ M ³	% of Total	% of Outside	Compared to Outside
	Outside Boiler Room	400	100%	90%	-40	-280	120	100%	30%	120	100%	30%	120	100%	30%	-280
		Fungal Spore ID			Fungal Spore ID			Fungal Spore ID			Fungal Spore ID			Fungal Spore ID		
<i>Ascospores</i>	160	40%	75%	-40	80	50%	80	67%	50%	80	67%	50%	80	67%	50%	-80
<i>Basidiospores</i>	40	10%	200%	40												
<i>Cladosporium</i>	200	50%	60%	-80	40	33%	40	33%	20%	40	33%	20%	40	33%	20%	-160
<i>Periconia/Smuts/Myxo- mycetes</i>	40	11%	ND/Out	40												
		Fungal Spore ID			Fungal Spore ID			Fungal Spore ID			Fungal Spore ID			Fungal Spore ID		

Notes: N/A = Not Applicable ND/Out = Not Detected Outdoors Count/M³ = Count Per Cubic Meter

CERTIFICATE OF ACHIEVEMENT

Certificate No.: IR102711-06
Expiration Date: October 27, 2012
Student Name: Ryan McGee

(This certifies that this individual has completed the requisite training for asbestos accreditation under TSCA Ti

Street: P.O. Box 7886 City: Helena State: MT Zip: 59604

NAME OF COURSE: 4-Hour Asbestos Inspector Refresher Training Course

COURSE DATE(S): October 27, 2011 **EXAMINATION DATE:** N/A

COURSE APPROVAL:

Montana Department of Environmental Quality
Waste and Underground Storage Tank Program
Asbestos Control Program
P.O. Box 200901
Helena, Montana 59620-0901 and U.S. EPA

COURSE PROVIDER:

A.L.M. CONSULTING, LLC
P.O. Box 7886
Helena, Montana 59604
rmcgee@bresnan.net

COURSE INSTRUCTOR:


Ryan McGee

RYAN D MCGEE

has met the requirements of Montana Administrative Rule 17.24 and or 17.24.363 for accreditation in the following asbestos-0-pc occupations) as indicated by an expiration date(s).

MTA-1705

CS MP LN

10/25/2012 02/12/2012 10/26/201

WK

MT DEQ Asbestos Control Program

United States Environmental Protection Agency

Office in the vicinity of



A.L.M. Consulting, LLC

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint renovation, repair, and painting activities pursuant to 40 CFR Part 745.89

in the jurisdiction of:

All EPA Administered States, Tribes, and Territories

This certification is valid from the date of issuance and expires September 15, 2015

NAT-76923-1

Certification #

September 1, 2010

Issued On

Michelle Price

Michelle Price, Chief

Lead, Heavy Metals, and Inorganics Branch