

ASBESTOS INSPECTION REPORT

For
Demolition
At

**218 Dalton Ave
La Junta, CO 81050**



Report By:
All-Phase Environmental Consultants Inc.
721 West 9th Street
Pueblo, Colorado 81003
Ph. (719) 545-0375
Cell (719) 250-0036
E-mail: robert@allphaseenvironmental.com
Visit us at www.allphaseenvironmental.com

Subject Property:

218 Dalton Ave
La Junta, CO 81050

Date(s) of Inspection: May 2, 2018

Date(s) of Report: June 07, 2018

***This document is not intended to be used as a bid spec, work plan, scope of work or similar**

I. Introduction:

To Whom It May Concern:

On May 02, 2018, Robert Sais of All-Phase Environmental Consultants (APEC) conducted an asbestos inspection for Demolition, located at the aforementioned Subject Property. Demolition activities will disturb materials that contain asbestos putting unprotected workers at risk, and violating asbestos regulations, which are enforced by OSHA, EPA, the Colorado Department of Public Health and Environment and the Otero County Health Department.

The asbestos inspection was conducted in accordance to the Colorado Department of Health and Environment's (CDPHE) *Regulation 8*. Fifty Six (56) bulk samples were collected at the Subject Property and on the Chain of Custody. The lab separated the 56 samples submitted into additional layers; there were **76** samples total. The samples were given unique sample IDs and proper chain of custody procedures were utilized to send the samples to EMSL Analytical in Denver, CO. EMSL is an accredited laboratory through the National Voluntary Laboratory Accreditation Program (NVLAP). The samples were analyzed using Polarized Light Microscopy (PLM). The materials assessed were in significantly damaged condition throughout the Subject Property at the time of the inspection. See the laboratory report in Appendix 1.

Accessibility may have been a limiting condition. A Colorado Certified Building Inspector uses reasonable diligence and professional judgment to identify all potential asbestos containing materials in the Subject Property. APEC will not be responsible for additional costs associated with future sampling, including services provided by a third party. ACM's that will be disturbed should be handled according to CDPHE and EPA protocol. Materials containing ANY amount of asbestos should be handled according to OSHA protocol.

Observations:

The Subject Properties original structure comprised of CMU was built in 1946. At some point a large addition was added to the north and west sides of the structure. The addition was constructed with dimensional lumber. This addition included extending the roof to cover the additional space. The roof system is a stick framed design covered with traditional asphalt shingles. At the time of the inspection the Subject property had been partially demolished. The roof was collapsed onto the interior walls and the majority of the west end of the structure had been destroyed. The debris from the demo was push up against the original (CMU) structure, which was still standing at the time of inspection. The use of heavy equipment to partially demolish the Subject property complicates abatement. Heavy equipment can pulverize potential ACBM potentially rendering them friable and contaminating surrounding soil.

Regulatory Compliance:

Asbestos surveys follow guidelines established under the U.S. Environmental Protection Agency's (USEPA) Asbestos Hazard and Response Act (AHERA) program and as required by USEPA regulation 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAP). Bulk sampling of suspected ACMs shall be performed in strict accordance with Asbestos Hazard Emergency Response Act (AHERA) sampling procedures detailed in 40 Code of Federal Regulations (CFR) 763.86. These include but aren't limited to labeling each sample, recording on a chain of custody, taking a photo of the sample and recording the location on a site diagram. Any Demolition and/or Renovation work could disturb materials that contain asbestos and put unprotected workers at risk, violating asbestos regulations, which are enforced by OSHA, EPA, CDPHE and El Paso County Health Department. ***An Asbestos inspection should always be acquired before of any type of remodeling or demolition work occurs.***

The EPA and the CDPHE define asbestos containing materials (ACM's) as any materials which tests positive at greater than (>) 1% asbestos. According to AHERA, EPA, and the CDPHE, materials testing at less than (<) or equal to 1% asbestos fibers are not considered to be an ACM. Any friable confirmed *asbestos containing materials* (ACM's) will have to be removed by a licensed Colorado Asbestos Abatement Contractor (prior to being disturbed). **All materials that could be impacted by the future renovation analyzed are less than 1% asbestos, therefore are not regulated or considered an ACM.**

Suspect materials are divided into two types, **friable** and **non-friable**, based upon the material's consistency. **Friable** is a material that, when dry, can be reduced to a powder or crumbled by finger (hand) pressure only, thereby rendering the material friable and allowing suspected asbestos fibers to become airborne. Friable materials produce a human health risk if the fibers are asbestos. When airborne the asbestos can be inhaled into the lungs causing future health problems and risks. **Non-friable** materials are miscellaneous building materials that in composition are hard and cannot be easily disturbed, and do not present a human health risk, unless activities such as crushing,

sanding, or any activity that damages in a destructive way, such as during a demolition, causes its condition to become friable.

II. Field Data & Lab Results:

Red = Positive ACM

Blue = OSHA

Sample Location Diagram for room numbers and sample locations in Appendix 2

- Drywall Heavy Texture (2B) located in the front room on Subject Property was confirmed to be OSHA regulated material by Point Count method:
 - *218-FR-2B-Texture is 2% Chrysotile*

The materials assessed were in damaged condition at the time of the inspection and non-friable.

- Drywall Swirl Texture (3A-3C) located in the Bathroom on Subject Property was confirmed to be OSHA regulated material by Point Count method:
 - *218-BH-3A-Texture is <1% Chrysotile*
 - *218-BH-3B-Joint Compound 1 is 2% Chrysotile*
 - *218-BH-3B-Joint Compound 2 is 2% Chrysotile*
 - *218-BH-3B-Composite is <1% Chrysotile*
 - *218-BH-3C-Texture is 2% Chrysotile*
 - *218-BH-3C-Joint Compound is 2% Chrysotile*

The materials assessed were in damaged condition at the time of the inspection and non-friable.

- Drywall Yellow/ Green (4A-4C) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:
 - *218-Demo-4A-Texture is 2% Chrysotile*
 - *218-Demo-4B-Mud is 2% Chrysotile*
 - *218-Demo-4C-Mud is 2% Chrysotile*
 - *218-Demo-4C- Texture is 2% Chrysotile*

The materials assessed were in damaged condition at the time of the inspection and non-friable.

- Drywall Smooth Texture Yellow (5A) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:
 - *218-Demo-5A-Texture is 2% Chrysotile*

The materials assessed were in damaged condition at the time of the inspection and non-friable.

- Drywall Heavy Sprayed (6A-6C) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:
 - *218-Demo-6A-Texture is 2% Chrysotile*
 - *218-Demo-6A-Joint Compound is 3% Chrysotile*
 - *218-Demo-6B-Texture is 2% Chrysotile*
 - *218-Demo-6C-Texture 1 is 2% Chrysotile*
 - *218-Demo-6C-Texture 2 is 2% Chrysotile*

The materials assessed were in damaged condition at the time of the inspection and non-friable.

- Drywall Swirl Texture (7A-7B) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:
 - *218-Demo-7A-Texture is 2% Chrysotile*
 - *218-Demo-7A-Joint Compound is 2% Chrysotile*
 - *218-demo-7B-Texture is <1% Chrysotile*

The materials assessed were in damaged condition at the time of the inspection and non-friable.

- Plaster Yellow (9A-9C) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:
 - *218-Demo-9A-Texture is 2% Chrysotile*
 - *218-Demo-9B-Texture is 2% Chrysotile*
 - *218-Demo-9C-Texture is 2% Chrysotile*

The materials assessed were in damaged condition at the time of the inspection and non-friable.

- Plaster White Heavy Texture (11A) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:
 - *218-Demo-11A-Texture is 2% Chrysotile*
- The materials assessed were in damaged condition at the time of the inspection and non-friable.
- Plaster Pink (12A-12B) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:
 - *218-Demo-12A-Texture is <1% Chrysotile*
 - *218-Demo-12B-Texture is <1% Chrysotile*

The materials assessed were in damaged condition at the time of the inspection and non-friable.

- Stucco White/Pink (15A-15C) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:
 - *218-Demo-15A-Texture is 2% Chrysotile*
 - *218-Demo-15B-Texture is <1% Chrysotile*
 - *218-Demo-15B-Texture is 2% Chrysotile*

The materials assessed were in damaged condition at the time of the inspection and non-friable.

- Green Stucco (16A-16B) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:
 - *218-Demo-16A-Skimcoat is <1% Chrysotile*
 - *218-Demo-16B-Skimcoat is <1% Chrysotile*

The materials assessed were in damaged condition at the time of the inspection and non-friable.

- Wall Tile (17B-17C) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:
 - *218-Demo-17B is <1% Chrysotile*
 - *218-Demo-17C-Backing is 2% Chrysotile*

The materials assessed were in damaged condition at the time of the inspection and non-friable.

- Flooring (19A-19B) located in the Demolished area on Subject Property was confirmed to be OSHA regulated material by Point Count method:
 - **218-Demo-19A-Flooring is 6% Chrysotile**
 - **218-Demo-19B-Flooring is 5% Chrysotile**

The materials assessed were in damaged condition at the time of the inspection and non-friable.

Laboratory Compliance:

The samples were delivered for analysis to EMSL Analytical, Inc. in Denver, Colorado, via FedEx. The laboratory is a member of the National Voluntary Laboratory Accreditation Program (NVLAP), and is qualified to perform the required analysis (See Appendix 6). The analysis conducted was the EPA Interim Method for the Determination of Asbestos in Bulk Samples, using standard Polarized Light Microscopy (PLM) and dispersion staining as established in 40 CFR Part 763. According to section III.A.1.c of *Regulation Number 8* from the CDPHE, if the asbestos content of a sample of friable asbestos is estimated to be 1% asbestos or less, but greater than 0%, by a method other than point counting, the determination shall be repeated using the point count technique with polarized light microscopy.

III. Homogeneous Sampling Areas/Notes:

Observations, Exceptions and Notations:

1. Built in 1946
2. This structure was partially demolished.
3. Remaining areas included, front room, bedroom #1 and bedroom #2
4. Wood floors in front area and bedroom # 1.
5. Bedroom # 2 was a converted garage with slab on grade floor.
6. Water damage on floors and walls was observed on 100% of the structure.
7. CMU construction throughout original exterior
8. Ceiling tile was observed in bedroom #2
9. Due to demolishing efforts roof damage is severe; the majority of the ceilings are heavily damage.
10. The Demolition scattered debris through-out the exterior of property onto the ground.
11. **Abatement will have to include clean-up of areas surrounding subject property.**

Bold – Indicates comment is associated with ACM

IV. Lab Results – Confirmed Asbestos

Thirty Five (35) samples (see Photographs and Sampling Locations in the Appendix) were confirmed to be an asbestos containing material (ACM) with initial PLM analysis as described below:

Sample ID	Material	Location	Asbestos Content	Quantity
218-FR-2B	Texture	Front Room	2% Chrysotile	TBV
218-BH-3A	Texture	Bathroom	<1% Chrysotile	
218-BH-3B	Joint Compound 1		2% Chrysotile	TBV
218-BH-3B	Joint Compound 2		2% Chrysotile	TBV
218-BH-3B	Composite		<1% Chrysotile	
218-BH-3C	Texture		2% Chrysotile	
218-BH-3C	Joint Compound		2% Chrysotile	TBV
218-Demo-4A	Texture	Demolished Area	2% Chrysotile	TBV
218-Demo-4B	Mud		2% Chrysotile	TBV
218-Demo-4C	Mud		2% Chrysotile	
218-Demo-4C	Texture		2% Chrysotile	
218-Demo-5A	Texture		2% Chrysotile	TBV
218-Demo-6A	Texture		2% Chrysotile	TBV
218-Demo-6A	Joint Compound		3% Chrysotile	TBV
218-Demo-6B	Texture		2% Chrysotile	TBV
218-Demo-6C	Texture 1		2% Chrysotile	TBV
218-Demo-6C	Texture 2		2% Chrysotile	TBV
218-Demo-7A	Texture		2% Chrysotile	TBV
218-Demo-7A	Joint Compound		2% Chrysotile	TBV
218-Demo-7B	Texture		<1% Chrysotile	TBV
218-Demo-9A	Texture		2% Chrysotile	TBV
218-Demo-9B	Texture		2% Chrysotile	TBV
218-Demo-9C	Texture		2% Chrysotile	TBV
218-Demo-11A	Texture		2% Chrysotile	TBV
218-Demo-12A	Texture		<1% Chrysotile	TBV
218-Demo-12B	Texture		<1% Chrysotile	TBV
218-Demo-15A	Texture		2% Chrysotile	TBV

218-Demo-15B	Texture	Demolished Area	<1% Chrysotile	TBV
218-Demo-15C	Texture		2% Chrysotile	TBV
218-Demo-16A	Skim coat		<1% Chrysotile	TBV
218-Demo-16B	Skim Coat		<1% Chrysotile	TBV
218-Demo-17B	Wall Tile/ Mastic		<1% Chrysotile	TBV
218-Demo-17C	Backing		2% Chrysotile	TBV
218-Demo-19A	Flooring		6% Chrysotile	TBV
218-Demo-19B	Flooring		5% Chrysotile	TBV

~ = Approximated

TBV = To be verified by asbestos removal contractor.

Thirty Five (35) samples taken were confirmed to be 2% Chrysotile by EMSL Analytical, Inc. using Polarized Light Microscopy. (If Applicable) The same samples were later analyzed using the Point Count Method. This analysis determines if the samples are less than or greater than 1% asbestos. According to AHERA, EPA, and the State of Colorado Department of Public Health and Environment, materials testing at less than (<) or equal to 1% asbestos fibers are not considered to be an asbestos containing material (ACM). This material may be disposed as normal building debris; however, OSHA protocol must be followed when handling materials containing ANY amount of asbestos. (See Table Below)

V. Point Count Results (EMSL Analytical, Inc.)

Not Applicable

VI. Limitations:

Accessibility may have been a limiting condition. A Colorado Certified Building Inspector used reasonable diligence and professional judgment to identify all potential asbestos containing materials in the Subject Property. Materials that are not visible from the surface, i.e. wall cavity insulation, may not have been sampled. This inspection complies with standards and protocol established by the Asbestos Hazardous Emergency Response Act (AHERA) and the CDPHE's, *Regulation 8*. APEC will not be responsible for additional costs associated with future sampling, including services provided by a third party. ACM's that will be disturbed should be handled according to CDPHE, EPA, and OSHA protocol. Materials containing ANY amount of asbestos should be handled according to OSHA protocol.

All-Phase Environmental Consultants, Inc. (APEC) makes no warranty either expressed or implied as to the completeness of the information contained herein. APEC will not be held liable for property damage or any loss of property value due to the inspection. APEC will not be held responsible for ACMs identified in additional areas of the Subject Property and/or any results of future asbestos inspections. This report is not an abatement plan and is intended to be informational only; APEC will not be held responsible for the mishandling of the information contained herein.

- If additional impacted suspect **ACM** or **ACBM** are discovered during renovations, servicing or maintenance related work for which there are no sample documentation/results, APEC recommends pursuing one of the following alternatives: Sample and analyze the discovered suspect material(s) to determine whether it contains asbestos; or assume the material(s) to be asbestos-containing materials, quantify and remove on a unit cost basis.
- Notwithstanding any provision to the contrary, the total liability of "All Phase Environmental Consultants, Inc.", and its employees, officers or directors be liable in contract, tort, strict liability warranty or otherwise, for any special, incidental or consequential damages, such as but not limited to, delay, disruption, loss of product, loss of anticipated profits or revenue, damages, cost, and expenses, including attorney's fees, shall not exceed the aggregate amount paid to All Phase Environmental Consultants, Inc. under this Agreement regardless of the legal theory under which such liability is imposed.

VII. Appendices:

The attached Appendices include:

- 1. Field Sheet/Asbestos Results**
- 2. Sample Photographs**
- 3. Asbestos Bulk Sample Data Sheet (test results)**
- 4. Chain of Custody Forms**
- 5. Asbestos Inspector Certifications/Laboratory Certifications**
- 6. Trigger Level Information Sheet**
- 7. OSHA Standards**

VIII. Signature of Asbestos Inspector (s):

All-Phase Environmental Consultants Inc.



Robert Sais

**AHERA Certified Asbestos Inspector
Colorado Certified Asbestos Building Inspector
Certification No. 23993**

APPENDIX 1

FIELD SHEET/ASBESTOS RESULTS

Field Sheet/Asbestos Results

Site Address: 218 Dalton Avenue, La Junta Colorado
 Certified Sampler: Robert Sais

APEC # 18-3076		DATE INSPECTED: 5/02/2018										
Functional Space ID	Homogeneous Sampling Area ID	Sample ID	Material	Layer Material	Condition	Asbestos Results	Asbestos Content	Point Count Results	Quantity	Material Category	Friability	Hazard Ranking
Front Room	1	218-FR-1A-Joint Compound	Drywall Heavy Textured	Joint Compound	SD	Negative	ND	NA	TBD	Surfacing	Friable	N/A
		218-FR-1A-Drywall	Drywall Heavy Textured	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-FR-1B-Joint Compound	Drywall Heavy Textured	Joint Compound	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-FR-1B-Drywall	Drywall Heavy Textured	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-FR-1C-Joint Compound	Drywall Heavy Textured	Joint Compound	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-FR-1C-Drywall	Drywall Heavy Textured	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-FR-2A-Texture	Drywall Heavy Textured	Texture	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-FR-2A-Tape	Drywall Heavy Textured	Tape	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-FR-2A-Joint Compound	Drywall Heavy Textured	Joint Compound	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-FR-2A-Drywall	Drywall Heavy Textured	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-FR-2B-Texture	Drywall Heavy Textured	Texture	SD	Positive	2% Chrysotile	NA		Surfacing	Friable	3
		218-FR-2B-Joint Compound	Drywall Heavy Textured	Joint Compound	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-FR-2B-Drywall	Drywall Heavy Textured	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-FR-2C-Texture	Drywall Heavy Textured	Texture	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-FR-2C-Joint Compound	Drywall Heavy Textured	Joint Compound	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-FR-2C-Drywall	Drywall Heavy Textured	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
Bath	2	218-BH-3A-Texture	Drywall Swirl Texture	Texture	SD	Positive	<1% Chrysotile	NA	TBD	Surfacing	Friable	3
		218-BH-3A-Drywall	Drywall Swirl Texture	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-BH-3B-Joint Compound 1	Drywall Swirl Texture	Joint Compound	SD	Positive	2% Chrysotile	NA		Surfacing	Friable	3
		218-BH-3B-Tape	Drywall Swirl Texture	Tape	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-BH-3B-Joint Compound 2	Drywall Swirl Texture	Joint Compound	SD	Positive	2% Chrysotile	NA		Surfacing	Friable	3
		218-BH-3B-Drywall	Drywall Swirl Texture	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-BH-3B-Composite	Drywall Swirl Texture	Composite	SD	Positive	<1% Chrysotile	NA		Surfacing	Friable	3
		218-BH-3C-Texture	Drywall Swirl Texture	Texture	SD	Positive	2% Chrysotile	NA		Surfacing	Friable	3
		218-BH-3C-Tape	Drywall Swirl Texture	Tape	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-BH-3C-Joint Compound	Drywall Swirl Texture	Joint Compound	SD	Positive	2% Chrysotile	NA		Surfacing	Friable	3
		218-BH-3C-Drywall	Drywall Swirl Texture	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-4A-Texture	Drywall Yellow/Green	Texture	SD	Positive	2% Chrysotile	NA	TBD	Surfacing	Friable	3
		218-Demo-4A-Drywall	Drywall Yellow/Green	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-4B-Mud	Drywall Yellow/Green	Mud	SD	Positive	2% Chrysotile	NA		Surfacing	Friable	3
		218-Demo-4B-Drywall	Drywall Yellow/Green	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-4C-Mud	Drywall Yellow/Green	Mud	SD	Positive	2% Chrysotile	NA		Surfacing	Friable	3
		218-Demo-4C-Texture	Drywall Yellow/Green	Texture	SD	Positive	2% Chrysotile	NA	TBD	Surfacing	Friable	3
		218-Demo-4C-Drywall	Drywall Yellow/Green	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-5A-Texture	Drywall Smooth Texture Yellow	Texture	SD	Positive	2% Chrysotile	NA		Surfacing	Friable	3
		218-Demo-5A-Drywall	Drywall Smooth Texture Yellow	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-5B-Drywall	Drywall Smooth Texture Yellow	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-5C-Drywall	Drywall Smooth Texture Yellow	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-6A-Texture	Drywall Heavy Sprayed	Texture	SD	Positive	2% Chrysotile	NA	TBD	Surfacing	Friable	3
		218-Demo-6A-Tape	Drywall Heavy Sprayed	Tape	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-6A-Joint Compound	Drywall Heavy Sprayed	Joint Compound	SD	Positive	3% Chrysotile	NA		Surfacing	Friable	3
		218-Demo-6A-Drywall	Drywall Heavy Sprayed	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-6B-Texture	Drywall Heavy Sprayed	Texture	SD	Positive	2% Chrysotile	NA		Surfacing	Friable	3
		218-Demo-6B-Drywall	Drywall Heavy Sprayed	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-6C-Texture 1	Drywall Heavy Sprayed	Texture	SD	Positive	2% Chrysotile	NA		Surfacing	Friable	3
		218-Demo-6C-Texture 2	Drywall Heavy Sprayed	Texture	SD	Positive	2% Chrysotile	NA		Surfacing	Friable	3
		218-Demo-6C-Drywall	Drywall Heavy Sprayed	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-7A-Texture	Drywall Swirl Texture Teal	Texture	SD	Positive	2% Chrysotile	NA		Surfacing	Friable	3

Demolished Area	3	218-Demo-7A-Tape	Drywall Swirl Texture Teal	Tape	SD	Negative	ND	NA	TBD	Surfacing	Friable	N/A
		218-Demo-7A-Joint Compound	Drywall Swirl Texture Teal	Joint Compound	SD	Positive	2% Chrysotile	NA		Surfacing	Friable	3
		218-Demo-7A-Drywall	Drywall Swirl Texture Teal	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-7B-Texture	Drywall Swirl Texture Teal	Texture	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-7B-Drywall	Drywall Swirl Texture Teal	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-7B-Texture	Drywall Swirl Texture Teal	Texture	SD	Positive	<1% Chrysotile	NA		Surfacing	Friable	3
		218-Demo-8A-Skimcoat	Plaster Purple	Skimcoat	SD	Negative	ND	NA	TBD	Surfacing	Friable	N/A
		218-Demo-8A-Plaster	Plaster Purple	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-8B-Skimcoat	Plaster Purple	Skimcoat	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-8B-Plaster	Plaster Purple	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-8C-Skimcoat	Plaster Purple	Skimcoat	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-8C-Plaster	Plaster Purple	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-9A-Texture	Plaster Yellow	Texture	SD	Positive	2% Chrysotile	NA	TBD	Surfacing	Friable	3
		218-Demo-9A-Plaster	Plaster Yellow	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-9B-Texture	Plaster Yellow	Texture	SD	Positive	2% Chrysotile	NA		Surfacing	Friable	3
		218-Demo-9B-Plaster	Plaster Yellow	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-9C-Texture	Plaster Yellow	Texture	SD	Negative	2% Chrysotile	NA		Surfacing	Friable	3
		218-Demo-9C-Plaster	Plaster Yellow	Plaster	SD	Positive	ND	NA		Surfacing	Friable	N/A
		218-Demo-10A-Skimcoat	Plaster White	Skimcoat	SD	Negative	ND	NA	TBD	Surfacing	Friable	N/A
		218-Demo-10A-Plaster	Plaster White	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-10B-Texture	Plaster White	Texture	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-10B-Skimcoat	Plaster White	Skimcoat	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-10B-Plaster	Plaster White	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-10C-Skimcoat	Plaster White	Skimcoat	SD	Negative	ND	NA	TBD	Surfacing	Friable	N/A
		218-Demo-10C-Plaster	Plaster White	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-11A-Texture	Plaster White Heavy Texture	Texture	SD	Positive	2% Chrysotile	NA	TBD	Surfacing	Friable	3
		218-Demo-11A-Plaster	Plaster White Heavy Texture	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-11B-Texture	Plaster White Heavy Texture	Texture	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-11B-Drywall	Plaster White Heavy Texture	Drywall	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-11C-Plaster	Plaster White Heavy Texture	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-12A-Texture	Plaster Pink	Texture	SD	Positive	<1% Chrysotile	NA	TBD	Surfacing	Friable	3
		218-Demo-12A-Plaster	Plaster Pink	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-12B-Texture	Plaster Pink	Texture	SD	Positive	<1% Chrysotile	NA		Surfacing	Friable	3
		218-Demo-12B-Plaster	Plaster Pink	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-12C-texture	Plaster Pink	Texture	SD	Negative	ND	NA		Surfacing	Friable	N/A
Bed Room	4	218-BD-13A	Ceiling Tile	Ceiling Tile	SD	Negative	ND	NA	~144ft²	Miscellaneous	Friable	N/A
		218-BD-13B	Ceiling Tile	Ceiling Tile	SD	Negative	ND	NA		Miscellaneous	Friable	N/A
Demolished Area	5	218-Demo-14A-Skimcoat	Stucco Blue/Green	Skimcoat	SD	Negative	ND	NA	TBD	Surfacing	Friable	N/A
		218-Demo-14A-Plaster	Stucco Blue/Green	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-14B-Skimcoat	Stucco Blue/Green	Skimcoat	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-14B-Plaster	Stucco Blue/Green	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-14C-Plaster	Stucco Blue/Green	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-15A-Texture	Stucco White/Pink	Texture	SD	Positive	2% Chrysotile	NA	TBD	Surfacing	Friable	3
		218-Demo-15A-Plaster	Stucco White/Pink	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-15B-Texture	Stucco White/Pink	Texture	SD	Positive	<1% Chrysotile	NA		Surfacing	Friable	3
		218-Demo-15B-Plaster	Stucco White/Pink	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-15C-Texture	Stucco White/Pink	Texture	SD	Positive	2% Chrysotile	NA		Surfacing	Friable	3
		218-Demo-15C-Plaster	Stucco White/Pink	Plaster	SD	Negative	ND	NA	TBD	Surfacing	Friable	N/A
		218-Demo-16A-Skimcoat	Stucco Green	Skimcoat	SD	Positive	<1% Chrysotile	NA		Surfacing	Friable	3
		218-Demo-16A-Plaster	Stucco Green	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-16B-Skimcoat	Stucco Green	Skimcoat	SD	Positive	<1% Chrysotile	NA		Surfacing	Friable	3
		218-Demo-16B-Plaster	Stucco Green	Plaster	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-16C	Stucco Green	Stucco	SD	Negative	ND	NA		Surfacing	Friable	N/A
		218-Demo-17A	Wall Tile/ Mastic	Wall Tile	SD	Negative	ND	NA	TBD	Miscellaneous	Friable	N/A
		218-Demo-17B	Wall Tile/ Mastic	Wall Tile	SD	Positive	<1% Chrysotile	NA		Miscellaneous	Friable	4
		218-Demo-17C-Paneling	Wall Tile/ Mastic	Paneling	SD	Negative	ND	NA		Miscellaneous	Friable	N/A
		218-Demo-17C-Backing	Wall Tile/ Mastic	Backing	SD	Positive	2% Chrysotile	NA		Miscellaneous	Friable	4
		218-Demo-18A-Shingle	Roofing	Shingle	SD	Negative	ND	NA		Miscellaneous	Friable	N/A

		218-Demo-18A-Tar Paper	Roofing	Tar Paper	SD	Negative	ND	NA	TBD	Miscellaneous	Friable	N/A
		218-Demo-18B-Shingle	Roofing	Shingle	SD	Negative	ND	NA		Miscellaneous	Friable	N/A
		218-Demo-18B-Tar Paper	Roofing	Tar Paper	SD	Negative	ND	NA		Miscellaneous	Friable	N/A
		218-Demo-19A-Flooring	linoleum	Flooring	SD	Positive	6% Chrysotile	NA	TBD	Miscellaneous	Friable	4
		218-Demo-19A-Mastic	linoleum	Mastic	SD	Negative	ND	NA		Miscellaneous	Friable	N/A
		218-Demo-19B-Flooring	linoleum	Flooring	SD	Positive	5% Chrysotile	NA		Miscellaneous	Friable	4
		218-Demo-19B-Mastic	linoleum	Mastic	SD	Negative	ND	NA		Miscellaneous	Friable	N/A
		218-Demo-20A	Wire Jacket	Wire Jacket	SD	Negative	ND	NA	TBD	Miscellaneous	Friable	N/A
		218-Demo-20B	Wire Jacket	Wire Jacket	SD	Negative	ND	NA		Miscellaneous	Friable	N/A

ND = None Detected > = Greater Than
 NA = Not Applicable < = Less Than
 ft² = square feet ~ = Approximated
 * = positive due to homogeneity

Red = Positive
 Blue = OSHA

1. Damaged or significantly damaged thermal system insulation ACM.
2. Damaged friable surfacing ACM.
3. Significantly damaged friable surfacing ACM.
4. Damaged or significantly damaged friable miscellaneous ACM.
5. ACBM with potential for damage.

Per AHERA and State of Colorado, materials tested at less than or equal to (<)1%asbestos are not considered to be an asbestos containing material

Materials containing ANY amount of asbestos should be handled according OSHA protocol.

APPENDIX 2

SAMPLE PHOTOGRAPHS (PHOTOS & DESCRIPTIONS)



Subject Property



North East



North



West



North West



West



South End



West Foundation (addition)



East side Debris



West side Debris



Front Room



Front Room



Front Room



Ceiling Tile

APPENDIX 3

***ASBESTOS BULK SAMPLE DATA SHEET
(TEST RESULTS)***



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204

Tel/Fax: (303) 740-5700 / (303) 741-1400

<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221803185

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Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003

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Fax: (719) 542-2807

Received Date: 05/08/2018 10:05 AM

Analysis Date: 05/15/2018

Collected Date: 05/02/2018

Project: 18-3076 Horn

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
218-FR-1A-Joint Compound 221803185-0001	Drywall Hand Troweled	Beige Non-Fibrous Homogeneous	3% Fibrous_Other	97% Non-fibrous (Other)	None Detected
218-FR-1A-Drywall 221803185-0001A	Drywall Hand Troweled	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
218-FR-1B-Joint Compound 221803185-0002	Drywall Hand Troweled	Beige Non-Fibrous Homogeneous	4% Fibrous_Other	96% Non-fibrous (Other)	None Detected
218-FR-1B-Drywall 221803185-0002A	Drywall Hand Troweled	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
218-FR-1C-Joint Compound 221803185-0003	Drywall Hand Troweled	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
218-FR-1C-Drywall 221803185-0003A	Drywall Hand Troweled	Brown/White Fibrous Homogeneous	5% Cellulose	70% Gypsum 25% Non-fibrous (Other)	None Detected
218-FR-2A-Texture 221803185-0004	Drywall Heavy Textured	White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
218-FR-2A-Tape 221803185-0004A	Drywall Heavy Textured	Beige Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
218-FR-2A-Joint Compound 221803185-0004B	Drywall Heavy Textured	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
218-FR-2A-Drywall 221803185-0004C	Drywall Heavy Textured	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

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1010 Yuma Street Denver, CO 80204

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Project: 18-3076 Horn

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
218-FR-2B-Texture 221803185-0005	Drywall Heavy Textured	White Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
218-FR-2B-Joint Compound 221803185-0005A	Drywall Heavy Textured	Beige Non-Fibrous Homogeneous	4% Fibrous_Other	96% Non-fibrous (Other)	None Detected
218-FR-2B-Drywall 221803185-0005B	Drywall Heavy Textured	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
218-FR-2C-Texture 221803185-0006	Drywall Heavy Textured	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
218-FR-2C-Joint Compound 221803185-0006A	Drywall Heavy Textured	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
218-FR-2C-Drywall 221803185-0006B	Drywall Heavy Textured	Brown/White Fibrous Homogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	None Detected
218-BH-3A-Texture 221803185-0007	Drywall Swirl Texture	White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
218-BH-3A-Drywall 221803185-0007A	Drywall Swirl Texture	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
218-BH-3B-Joint Compound 1 221803185-0008	Drywall Swirl Texture	Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile

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Project: 18-3076 Horn

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
218-BH-3B-Tape 221803185-0008A	Drywall Swirl Texture	Beige Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
218-BH-3B-Joint Compound 2 221803185-0008B	Drywall Swirl Texture	Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
218-BH-3B-Drywall 221803185-0008C	Drywall Swirl Texture	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
218-BH-3B-Composi te 221803185-0008D	Drywall Swirl Texture	Beige Fibrous Heterogeneous	25% Cellulose	50% Gypsum 25% Non-fibrous (Other)	<1% Chrysotile
This is a composite result of tape, joint compound, and drywall					
218-BH-3C-Texture 221803185-0009	Drywall Swirl Texture	Tan Non-Fibrous Heterogeneous		10% Ca Carbonate 88% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
218-BH-3C-Tape 221803185-0009A	Drywall Swirl Texture	Beige Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
218-BH-3C-Joint Compound 221803185-0009B	Drywall Swirl Texture	Tan Non-Fibrous Homogeneous		10% Ca Carbonate 88% Non-fibrous (Other)	2% Chrysotile
218-BH-3C-Drywall 221803185-0009C	Drywall Swirl Texture	Brown/White Fibrous Homogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	None Detected
218-DEMO-4A-Text ure 221803185-0010	Drywall Yellow/Green	White/Yellow Non-Fibrous Heterogeneous		15% Ca Carbonate 83% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					

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1010 Yuma Street Denver, CO 80204

Tel/Fax: (303) 740-5700 / (303) 741-1400

<http://www.EMSL.com> / denverlab@emsl.com

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All-Phase Environmental Consultants, Inc
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Pueblo, CO 81003

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Project: 18-3076 Horn

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

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
218-DEMO-4A-Dry wall 221803185-0010A	Drywall Yellow/Green	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
218-DEMO-4B-Mud 221803185-0011	Drywall Yellow/Green	White Non-Fibrous Homogeneous		15% Ca Carbonate 83% Non-fibrous (Other)	2% Chrysotile
218-DEMO-4B-Dry wall 221803185-0011A	Drywall Yellow/Green	Brown/White Fibrous Heterogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
218-DEMO-4C-Mud 221803185-0012	Drywall Yellow/Green	White Non-Fibrous Homogeneous		10% Ca Carbonate 88% Non-fibrous (Other)	2% Chrysotile
218-DEMO-4C-Texture 221803185-0012A	Drywall Yellow/Green	Tan Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
218-DEMO-4C-Dry wall 221803185-0012B	Drywall Yellow/Green	Brown/White Fibrous Homogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	None Detected
218-DEMO-5A-Texture 221803185-0013	Drywall Smooth Texture Yellow	Yellow/Beige Non-Fibrous Heterogeneous		15% Ca Carbonate 83% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
218-DEMO-5A-Dry wall 221803185-0013A	Drywall Smooth Texture Yellow	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
218-DEMO-5B-Dry wall 221803185-0014	Drywall Smooth Texture Yellow	Brown/White/Yellow Fibrous Heterogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					

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

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
218-DEMO-5C-Dry wall 221803185-0015	Drywall Smooth Texture Yellow	Brown/White/Yellow Fibrous Heterogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
218-DEMO-6A-Texture 221803185-0016	Drywall Heavy Sprayed	White/Beige Non-Fibrous Heterogeneous		10% Ca Carbonate 88% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
218-DEMO-6A-Tape 221803185-0016A	Drywall Heavy Sprayed	Beige Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
218-DEMO-6A-Joint Compound 221803185-0016B	Drywall Heavy Sprayed	Beige Non-Fibrous Homogeneous		10% Ca Carbonate 87% Non-fibrous (Other)	3% Chrysotile
218-DEMO-6A-Dry wall 221803185-0016C	Drywall Heavy Sprayed	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
218-DEMO-6B-Texture 221803185-0017	Drywall Heavy Sprayed	White Non-Fibrous Heterogeneous		15% Ca Carbonate 83% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
218-DEMO-6B-Dry wall 221803185-0017A	Drywall Heavy Sprayed	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
218-DEMO-6C-Texture 1 221803185-0018	Drywall Heavy Sprayed	White Non-Fibrous Heterogeneous		10% Ca Carbonate 88% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
218-DEMO-6C-Texture 2 221803185-0018A	Drywall Heavy Sprayed	Tan Non-Fibrous Heterogeneous		10% Ca Carbonate 88% Non-fibrous (Other)	2% Chrysotile

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Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
218-DEMO-6C-Dry wall 221803185-0018B	Drywall Heavy Sprayed	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
218-DEMO-7A-Texture 221803185-0019	Drywall Swirl Texture Teal	Blue/Beige Non-Fibrous Heterogeneous		10% Ca Carbonate 88% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
218-DEMO-7A-Tape 221803185-0019A	Drywall Swirl Texture Teal	Beige Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
218-DEMO-7A-Joint Compound 221803185-0019B	Drywall Swirl Texture Teal	Beige Non-Fibrous Homogeneous		10% Ca Carbonate 88% Non-fibrous (Other)	2% Chrysotile
218-DEMO-7A-Dry wall 221803185-0019C	Drywall Swirl Texture Teal	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
218-DEMO-7B-Texture 221803185-0020	Drywall Swirl Texture Teal	Blue Non-Fibrous Heterogeneous	4% Fibrous_Other	96% Non-fibrous (Other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
218-DEMO-7B-Dry wall 221803185-0020A	Drywall Swirl Texture Teal	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
218-DEMO-7C-Dry wall 221803185-0021	Drywall Swirl Texture Teal	Brown/White/Blue Non-Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
218-DEMO-8A-Skim Coat 221803185-0022	Plaster Purple	White/Purple Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 05/15/2018 17:11:57



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204

Tel/Fax: (303) 740-5700 / (303) 741-1400

<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221803185

Customer ID: ALLP62

Customer PO:

Project ID:

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 05/08/2018 10:05 AM
Analysis Date: 05/15/2018
Collected Date: 05/02/2018

Project: 18-3076 Horn

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

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
218-DEMO-8A-Plaster er 221803185-0022A	Plaster Purple	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
218-DEMO-8B-Skim Coat 221803185-0023	Plaster Purple	White/Purple Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
218-DEMO-8B-Plaster er 221803185-0023A	Plaster Purple	Gray Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
218-DEMO-8C-Skim Coat 221803185-0024	Plaster Purple	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
218-DEMO-8C-Plaster er 221803185-0024A	Plaster Purple	Gray Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
218-DEMO-9A-Text ure 221803185-0025	Plaster Yellow	White/Yellow Non-Fibrous Heterogeneous		10% Ca Carbonate 88% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
218-DEMO-9A-Plaster er 221803185-0025A	Plaster Yellow	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
218-DEMO-9B-Textu re 221803185-0026	Plaster Yellow	Yellow/Pink/Beige Non-Fibrous Heterogeneous		10% Ca Carbonate 88% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
218-DEMO-9B-Plaster er 221803185-0026A	Plaster Yellow	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected

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Fax: (719) 542-2807

Received Date: 05/08/2018 10:05 AM

Analysis Date: 05/15/2018

Collected Date: 05/02/2018

Project: 18-3076 Horn

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
218-DEMO-9C-Texture 221803185-0027	Plaster Yellow	White Non-Fibrous Homogeneous		5% Ca Carbonate 93% Non-fibrous (Other)	2% Chrysotile
218-DEMO-9C-Plaster 221803185-0027A	Plaster Yellow	Gray Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
218-DEMO-10A-Skin Coat 221803185-0028	Plaster White	Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
218-DEMO-10A-Plaster 221803185-0028A	Plaster White	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
218-DEMO-10B-Texture 221803185-0029	Plaster White	White/Beige Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
218-DEMO-10B-Skin Coat 221803185-0029A	Plaster White	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
218-DEMO-10B-Plaster 221803185-0029B	Plaster White	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
218-DEMO-10C-Skin Coat 221803185-0030	Plaster White	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
218-DEMO-10C-Plaster 221803185-0030A	Plaster White	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

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Analysis Date: 05/15/2018
Collected Date: 05/02/2018

Project: 18-3076 Horn

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

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
218-DEMO-11A-Texture 221803185-0031	Plaster White Heavy Texture	White Non-Fibrous Heterogeneous		98% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
218-DEMO-11A-Plaster 221803185-0031A	Plaster White Heavy Texture	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
218-DEMO-11B-Texture 221803185-0032	Plaster White Heavy Texture	White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
218-DEMO-11B-Dry wall 221803185-0032A	Plaster White Heavy Texture	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
218-DEMO-11C-Plaster 221803185-0033	Plaster White Heavy Texture	Tan/White Non-Fibrous Heterogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
218-DEMO-12A-Texture 221803185-0034	Plaster Pink	Yellow/Pink Non-Fibrous Heterogeneous	3% Fibrous_Other	97% Non-fibrous (Other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
218-DEMO-12A-Plaster 221803185-0034A	Plaster Pink	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
218-DEMO-12B-Texture 221803185-0035	Plaster Pink	Pink Non-Fibrous Homogeneous	3% Fibrous_Other	97% Non-fibrous (Other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 05/15/2018 17:11:57



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1010 Yuma Street Denver, CO 80204

Tel/Fax: (303) 740-5700 / (303) 741-1400

<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221803185

Customer ID: ALLP62

Customer PO:

Project ID:

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
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Pueblo, CO 81003

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 05/08/2018 10:05 AM
Analysis Date: 05/15/2018
Collected Date: 05/02/2018

Project: 18-3076 Horn

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
218-DEMO-12B-Plaster	Plaster Pink	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
221803185-0035A					
218-DEMO-12C-Texture	Plaster Pink	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
221803185-0036					
218-BD-13A	Ceiling Tile	Brown/White Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
221803185-0037					
218-BD-13B	Ceiling Tile	Tan/Beige Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
221803185-0038					
218-DEMO-14A-Skim Coat	Stucco Blue/Green	White/Blue Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
221803185-0039					
Inseparable paint / coating layer included in analysis					
218-DEMO-14A-Plaster	Stucco Blue/Green	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
221803185-0039A					
218-DEMO-14B-Skim Coat	Stucco Blue/Green	Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
221803185-0040					
Inseparable paint / coating layer included in analysis					
218-DEMO-14B-Plaster	Stucco Blue/Green	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
221803185-0040A					
218-DEMO-14C-Plaster	Stucco Blue/Green	Gray/Blue Non-Fibrous Heterogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
221803185-0041					
Inseparable paint / coating layer included in analysis					

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

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EMSL Order: 221803185

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Project: 18-3076 Horn

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

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
218-DEMO-15A-Texture 221803185-0042	Stucco White/Pink	White/Beige Non-Fibrous Heterogeneous		5% Ca Carbonate 93% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
218-DEMO-15A-Plaster 221803185-0042A	Stucco White/Pink	Beige Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
218-DEMO-15B-Texture 221803185-0043	Stucco White/Pink	White/Pink Non-Fibrous Heterogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
218-DEMO-15B-Plaster 221803185-0043A	Stucco White/Pink	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
218-DEMO-15C-Texture 221803185-0044	Stucco White/Pink	Tan Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
218-DEMO-15C-Plaster 221803185-0044A	Stucco White/Pink	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
218-DEMO-16A-Skim Coat 221803185-0045	Stucco Green	White/Green Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
218-DEMO-16A-Plaster 221803185-0045A	Stucco Green	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
218-DEMO-16B-Skim Coat 221803185-0046	Stucco Green	White/Green Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					

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Project: 18-3076 Horn

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
218-DEMO-16B-Plaster 221803185-0046A	Stucco Green	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
218-DEMO-16C 221803185-0047	Stucco Green	Gray/White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
218-DEMO-17A 221803185-0048	Wall Tile/Mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
218-DEMO-17B 221803185-0049	Wall Tile/Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
218-DEMO-17C-Panelling 221803185-0050	Wall Tile/Mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
218-DEMO-17C-Backing 221803185-0050A	Wall Tile/Mastic	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 93% Non-fibrous (Other)	2% Chrysotile
218-DEMO-18A-Shingle 221803185-0051	Roofing	Black Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
218-DEMO-18A-Tar Paper 221803185-0051A	Roofing	Black Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
218-DEMO-18B-Shingle 221803185-0052	Roofing	Black Non-Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
218-DEMO-18B-Tar Paper 221803185-0052A	Roofing	Black Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (Other)	None Detected

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Project: 18-3076 Horn

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
218-DEMO-19A-Flooring 221803185-0053	Linoleum	Beige Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
218-DEMO-19A-Mastic 221803185-0053A	Linoleum	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
218-DEMO-19B-Flooring 221803185-0054	Linoleum	White Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
218-DEMO-19B-Mastic 221803185-0054A	Linoleum	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
218-DEMO-20A 221803185-0055	Wire Jacket	Brown Fibrous Homogeneous	50% Cellulose 25% Glass	25% Non-fibrous (Other)	None Detected
218-DEMO-20B 221803185-0056	Wire Jacket	Gray/Tan Fibrous Homogeneous	50% Cellulose 25% Glass	25% Non-fibrous (Other)	None Detected

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Received Date: 05/08/2018 10:05 AM
Analysis Date: 05/15/2018
Collected Date: 05/02/2018

Project: 18-3076 Horn

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 05/08/2018

Sample Receipt Time: 10:05 AM

Analysis Completed Date: 05/15/2018

Analysis Completed Time: 5:09 PM

Analyst(s):

Amanda Lang PLM (31)

Gentry Catlett PLM (77)

Timothy Kleehammer PLM (7)

Samples Reviewed and approved by:

Amanda Lang, Asbestos Laboratory Manager
or other approved signatory

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APPENDIX 4

CHAIN OF CUSTODY FORMS

EMSL Analytical, Inc.
1010 Yuma StreetEMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only)

221803185

Denver, CO 80204

PHONE: (303) 740-5700

FAX: (303) 741-1400

Company: All-Phase Environmental Consultants, Inc.		EMSL-Bill to: <input type="checkbox"/> Different <input checked="" type="checkbox"/> Same If Bill to is Different note instructions in Comments**	
Street: 721 W. 9th Street		Third Party Billing requires written authorization from third party	
City: Pueblo	State/Province: CO	Zip/Postal Code: 81003	Country: United States
Report To (Name): Robert Sais		Telephone #: 719-545-0375	
Email Address: logan@allphaseenvironmental.com		Fax #:	Purchase Order:
Project Name/Number: 18-3076 Horn		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: CO		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.			
PCM - Air <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA		TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	
PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)		TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)		Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> TEM Qual. via Filtration Technique <input type="checkbox"/> TEM Qual. via Drop-Mount Technique	
<input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group		Filter Pore Size (Air Samples): <input type="checkbox"/> 0.8µm <input type="checkbox"/> 0.45µm	
Samplers Name: Robert Sais		Samplers Signature: <i>Robert Sais</i>	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
218-FR-1A	Drywall Hand troweled		5/2/18
1B	↓		
1C	↓		
2A	Drywall Heavy textured		
2B	↓		
✓ 2C	↓		
218-BH-3A	Drywall swirl texture		
3B	↓		✓
Client Sample # (s): -		Total # of Samples: 56	
Relinquished (Client): Robert Sais		Date: 5/7/18	Time: 4:30pm
Received (Lab): <i>CS</i>		Date: 5/8/18	Time: 10:05am
Comments/Special Instructions:		EMFE 7954 7364 7950 1/2	

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

Denver, CO 80204
PHONE: (303) 740-5700
FAX: (303) 741-1400

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
21B-BH-3C	Dry Wall Swirl texture		5/2/18
21B-Demo-4A	Dry Wall yellow / Green		
4B	↓		
4C	Dry Wall ↓		
5A	Dry Wall Smooth texture		
5B	↓ yellow		
5C	↓		
6A	Dry Wall Heavy sprayed		
6B	↓		
6C	↓		
7A	Dry Wall Swirl texture		
7B	↓ flat		
7C	↓		
8A	Plaster Purple		
8B	↓		
8C	↓		
9A	Plaster yellow		
9B	↓		
9C	↓		
10A	Plaster white		
10B	↓		
10C	↓		
11A	plaster white Heavy texture		
✓ 11B	↓		✓
*Comments/Special Instructions:			

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS • TRAINING**Asbestos Chain of Custody**

EMSL Order Number (Lab Use Only):

Denver, CO 80204
PHONE: (303) 740-5700
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Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
218-Demo-11C	plaster white Heavy texture		5/2/18
12A	plaster pink		
12B	↓		
✓ 12C	↓		
218-Demo-13A	ceiling tile		
↓ 13B	↓		
218-Demo 14A	stucco Blue / Green		
14B	↓		
✓ 14C	↓		
15A	stucco white / pink		
15B	↓		
15C	↓		
16A	stucco Green		
16B	↓		
16C	↓		
17A	wall tile / Mastic		
17B	↓		
17C	↓		
18A	Roofing		
18B	↓		
19A	linoleum		
19B	↓		
20A	wire Jacket		
✓ 20B	↓		✓

*Comments/Special Instructions:

APPENDIX 5

***ASBESTOS INSPECTOR CERTIFICATIONS
&
LABORATORY CERTIFICATIONS***



Colorado Department
of Public Health
and Environment

ASBESTOS CERTIFICATION*

This certifies that

Robert Sais

Certification No.: 23993

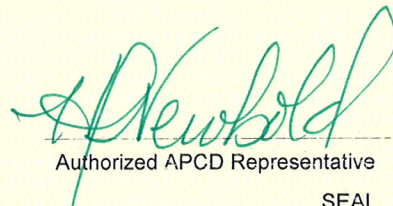
has met the requirements of 25-7-507, C.R.S. and Air Quality Control
Commission Regulation No. 8, Part B, and is hereby certified by the
state of Colorado in the following discipline:

Building Inspector*

Issued: October 06, 2017

Expires: October 06, 2018

** This certificate is valid only with the possession of a
current Division-approved training course certification
in the discipline specified above.*


Authorized APCD Representative
SEAL

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.
1010 Yuma Street
Denver, CO 80204
Mr. Brendon Rawlings
Phone: 303-740-5700 Fax: 303-741-1400
Email: brawlings@emsl.com
<http://www.emsl.com>

ASBESTOS FIBER ANALYSIS

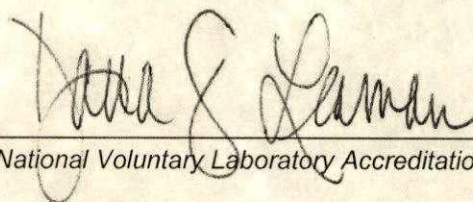
NVLAP LAB CODE 200828-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA -- Appendix E to Subpart E of Part 763 -- Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.



For the National Voluntary Laboratory Accreditation Program

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200828-0

EMSL Analytical, Inc.
Denver, CO

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2017-04-01 through 2018-03-31

Effective Dates



Dana S. Laman
For the National Voluntary Laboratory Accreditation Program

APPENDIX 6

TRIGGER LEVEL INFORMATION SHEET

STATE OF COLORADO RENOVATION/DEMOLITION FACT SHEET

Prior to ANY renovation or demolition in any public and commercial building that may disturb greater than the trigger levels of a suspect asbestos-containing material (ACM), an inspection must be performed to determine if abatement is required.

Trigger Levels

Single-family residential dwelling - 32 square feet
(SFRD) 50 linear feet
The volume of a 55-gallon drum

All other areas excluding a SFRD - 160 square feet
260 linear feet
The volume of a 55-gallon drum

- Individuals performing these inspections shall be State of Colorado certified Building Inspectors.
- The inspection, sampling and assessments of the suspect materials must be performed as required by Colorado Regulation No. 8, Part B.
- Buildings, or those portions thereof, that were constructed after October, 12, 1988 shall be exempt from inspection requirements IF an architect or project engineer responsible for the construction of the building or a State of Colorado certified Building Inspector, signs a statement that no ACM was specified as a building material in any construction document for the building or that no ACM was used as a building material in the building.
- Building Inspectors must be independent of the General Abatement Contractor (GAC) who will be abating any asbestos found.
- Abatement, in accordance with Regulation No. 8, is required if the amount of ACM that will be disturbed in connection with the renovation exceeds the trigger levels.
- ANY ACM that is friable or will be made friable during demolition activities MUST be removed prior to demolition. Removal, in accordance with Regulation No. 8, is required if the amount of ACM that is friable or will become friable exceeds the trigger levels.
- A permit for abatement of friable ACM or demolition of a building, or a notice for the removal of non-friable ACM, must be applied for and received from the Division prior to commencing the activity.
 - Abatement and Demolition application forms can be obtained from:
 - www.cdphe.state.co.us/ap/asbeshom.asp
 - Completed applications, along with the requisite fee, can be submitted to:
 - Permit Coordinator, CDPHE, APCD-SS-B1, 4300 Cherry Creek Drive S., Denver, CO 80246-1530, (303) 692-3100 by mail or in person
- There is a 10 working day waiting period from the postmark or hand-delivery date to start work on a project requiring a permit or notice.

APPENDIX 7

OSHA STANDARDS

OSHA STANDARDS

- 29 CFR 1926.1101(g)(1)(ii), which requires: **wet methods, or wetting agents, to control employee exposures during asbestos handling, mixing, removal, cutting, application, and cleanup, except where employers demonstrate that the use of wet methods is infeasible due to, for example, the creation of electrical hazards, equipment malfunction, and, in roofing, except as provided in paragraph (g)(8)(ii)² of this section;**
- 29 CFR 1926.1101(g)(1)(iii), which requires: **prompt clean-up and disposal of wastes and debris contaminated with asbestos in leak-tight containers except in roofing operations, where the procedures specified in paragraph (g)(8)(ii)³ of this section apply;**
- 29 CFR 1926.1101(g)(3)(i), which prohibits: **high-speed abrasive disc saws that are not equipped with point-of-cut ventilator or enclosures with HEPA filtered exhaust air;**
- 29 CFR 1926.1101(g)(3)(ii), which prohibits: **compressed air used to remove asbestos, or materials containing asbestos, unless the compressed air is used in conjunction with an enclosed ventilation system designed to capture the dust cloud created by the compressed air;** and
- 29 CFR 1926.1101(g)(3)(iv), which prohibits: **employee rotation as a means of reducing employee exposure to asbestos.**

Instead of making all of the engineering controls and work practices applicable to all materials containing asbestos, OSHA made most of them applicable only to installed building materials that contain >1% asbestos and assigned the term "asbestos-containing material" (ACM) to those materials. However, to prevent needless worker exposures to asbestos, OSHA made a few common-sense work practices and prohibitions applicable if any asbestos is present in materials.

Thus, the current standard contains engineering controls and work practices that apply regardless of the exposure levels to certain work activities involving only installed building materials that meet the definition of ACM. It also contains a few work practices and prohibitions for work involving material that contains any amount of asbestos regardless of the exposure levels. And the standard has exposure-based requirements, consisting of a 0.1 fiber/cc 8-hour TWA PEL and a 1 fiber/cc 30-minute excursion limit, and other requirements that apply whenever worker exposures exceed either or both of the limits, regardless of the amount of asbestos contained in the materials involved.

You **must** inform employees about the presence of material containing <1% asbestos when you know it is present. When employees perform work activities involving such material, you are required per 29 CFR 1926.1101(f)(2)(i) to assess their exposures to asbestos. In connection with this requirement you must, per 29 CFR 1926.1101(f)(6)(i), provide affected employees an opportunity to observe any monitoring of asbestos exposure. After the monitoring, you must, per 29 CFR 1926.1101(f)(5)(i) and (ii), inform employees of the monitoring results representing their asbestos exposures. In accordance with 29 CFR 1926.1101(e) and (k)(7), if asbestos exposures exceed or are likely to exceed one or both of the PELs, then you must provide warning by posting the area where these overexposures are occurring as a regulated area.

Although employers do not **have to** label containers of waste and debris containing <1% asbestos, promptly placing the waste and debris in leak-tight containers is a work practice that reduces the exposures of the employees producing the waste and debris. That is especially so because this work practice is to be used in conjunction with wet methods or wetting agents. By promptly cleaning up the waste and debris and placing it in containers, it is kept from drying out and possibly releasing airborne asbestos into the work environment. Leak-tight containers prevent the asbestos from seeping out and reintroducing an asbestos exposure hazard.