ASBESTOS INSPECTION REPORT
For Demolition

APEC Sampling Reference: Building #11
Housing Authority Reference: Building 45-I

Units:
2713 – A 2721 – E 2729 – H
2715 – B 2723 – I
2717 – C 2725 – F
2719 – D 2727 – G

Prepared for:
Pueblo Housing Authority

Report by:

Date(s) of Inspection: 10/13/2021
Date(s) of Report: 11/11/2021

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

I. Introduction

On October 13, 2021, Colorado Certified Asbestos Building Inspectors Robert Sais and Joey Cardenas, with All-Phase Environmental Consultants, Inc. (APEC) conducted an Asbestos Inspection for demolition at the request of the Pueblo Housing Authority at the aforementioned location. This structure is a multi-family residence, with 9 units, and is approximately 8,358 ft^2. The structure is a concrete slab on grade foundation with brick-and-mortar exterior walls. The structure is protected with a built-up roof system. During the inspection each "unit" was sampled individually in order to define homogenous materials.

Demolition activities will disturb materials that could possibly contain asbestos, putting unprotected workers at risk, and violating asbestos regulations, which are enforced by OSHA, EPA, CDPHE and the Local County Health Department.

The functional spaces observed during the inspection include the interior walls, ceilings, flooring, exterior stucco, roofing, and windows. As well as the furnace and ductwork.

Date(s) of Inspection	Personnel on Site	CDPHE Certification Number/Expiration
October 13, 2021	**Robert Sais**	**23993/April 26, 2022**
	Joey Cardenas	**24591/June 10, 2022**

II. Homogeneous Sampling Areas; Notes; and Observations

A. Homogeneous Areas Sampled –12 Total (See Appendix 3)

Homogenous ID	*Material*	*Quantity (total for building)*
1	**Roll textured Plaster**	***24,056* ft²**
2	Roll textured Drywall	*6,947* ft^2
3	Smooth Plaster	*7,167* ft^2
4	**Texture on Concrete**	***4,100*** ft^2
5	Cove Base/Mastic	*756* ft^2
6	**12x12 VCT Floor tile/Mastic**	***8,278*** ft^2
7	Window Caulking	*250* ft^2
8	Stair Runner/Mastic	*288* ft^2
9	**TSI Heat Board**	***300*** ft^2
10	Brick/Mortar	*6,144* ft^2
11	**Exterior Sealant**	***288* ft²**
12	**Exterior Sealant/Patio Cover**	***90* ft²**

BOLD indicates ACM

B. Observations

- Subject property was vacant at the time of the inspection
- Subject property was in Good/livable condition at the time of the inspection

C. Exceptions

- No exceptions were made at the time of the inspection

D. Notations

- The Structure contains 9 Units
- Each unit sampled individually

III. Regulatory Overview

A. Sampling Methodology

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 County Health Department. **An Asbestos inspection should always be performed before 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).

This inspection report and methodology complies with the Colorado Department of Public Health and Environment (CDPHE) Asbestos Sampling and Report Requirements as stated in Regulation 8 revision dated March 17, 2021.

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.

Sample locations are determined per homogeneous areas and are selected by dividing the homogeneous sampling area into nine equally sized subareas. This is done by dividing the length and breadth of the sampling area into three equal lengths and drawing a grid over the diagram. This can be done carefully by eye. Exact measurements are not needed.

If the homogeneous sampling area does not easily fit into a rectangular shape, parts of the grid might not be in the sampling area. This is not a problem in most cases. If, however, a large part of the grid falls outside the homogeneous sampling area (L-shaped), it is to be divided into two or more separate sampling areas, each of which is approximately rectangular, and select sample locations by applying the sampling scheme to each sampling area.

For greatest coverage, one sample from each of the nine grid regions should be collected. If fewer samples are to be collected, subareas are used in order to follow a random sampling scheme. For the first area intended to sample, personnel number the nine subareas. If three samples are needed, they are taken from the subareas marked 1, 2, 3, 4 and 5 and so on. Samples are collected from approximately the center of a subarea or as close as possible to the center if accessibility, presence of light fixtures, etc. make the center location impractical. If the material is drywall it is common practice to find a “seam” so as to encompass the drywall, tape and mud all in a layered sample. If a subarea is specified that falls entirely outside the sampling area, the next specified subarea is used instead. For example, if subarea three falls outside the sampling area, the third sample is taken from subarea 4.

For very irregular-shaped areas, the homogeneous sampling area may be divided into nine subareas of approximately equal size that do not necessarily form a rectangular grid. When adapting sampling diagrams, the order of the numbered subareas from left to right and top to bottom, are retained, whenever possible. For each sampling area, a new diagram is generated.

B. Certified Laboratory Requirements/Compliance

The samples were delivered for analysis to Aerobiology Laboratory Associates, Inc. in Golden, 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 8). 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. The asbestos inspection was conducted in accordance to the Colorado Department of Health and Environment's (CDPHE) *Regulation 8*.

A total of One hundred seventy-four (174) bulk samples were collected at the Subject Property and identified on the Chain of Custody (Appendix 7). The lab separated the 174 samples submitted, into additional layers; there were 475 total layers sampled. The samples were given unique sample IDs and proper chain of custody procedures were utilized to send the samples to Aerobiology Laboratory Associates, Inc. Golden, CO. Aerobiology Laboratory Associates, Inc. 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 good condition throughout the Subject Property at the time of the inspection. **The laboratory report is in Appendix 6. The ACM location diagram is located in Appendix 4.**

IV. Field Data & Lab Result Summary:

Red = Positive ACM

Unit A

The Textured Plaster (2A-2E) observed on the walls of Unit A is confirmed to be an **ACM** regulated material by PLM method:

- ***PHA-B1113-2A is Homogenous***
- ***PHA-B1113-2B is Homogenous***
- ***PHA-B1113-2C-White Texture w/White Paint is 2% Chrysotile***
- ***PHA-B1113-2D is Homogenous***
- ***PHA-B1113-2E is Homogenous***

The materials assessed were in Good condition at the time of the inspection and friable.

The Texture on Concrete (4A-4C) observed on lower level ceilings of Unit A are confirmed to be an **ACM** regulated material by Initial Point Count method:

- ***PHA-B1113-4A-Tan Texture is 3% Chrysotile***
- ***PHA-B1113-4B-Tan Texture is 3% Chrysotile***
- ***PHA-B1113-4C-Tan Texture is 3% Chrysotile***

The materials assessed were in Good condition at the time of the inspection and friable.

The 12X12 VCT Floor tile (5A & 5B) observed on the Floors of the entire structure are confirmed to be an **ACM** regulated material by Initial PLM method:

- ***PHA-B1113-5A-Off-White/Green Tile is 2% Chrysotile***
- ***PHA-B1113-5A-Black Mastic is 10% Chrysotile***
- ***PHA-B1113-5B-Off-White/Green Tile is 2% Chrysotile***
- ***PHA-B1113-5B-Black Mastic is 10% Chrysotile***

The materials assessed were in Good condition at the time of the inspection and Non-friable.

The TSI Sheeting (8A-8C) observed on the HVAC system and Registers are confirmed to be an **ACM** regulated material by Initial PLM method:

- ***PHA-B1113-6A-Light Gray Fibrous Material is 75% Chrysotile***
- ***PHA-B1113-6B-Light Gray Fibrous Material is 75% Chrysotile***
- ***PHA-B1113-6C-Light Gray Fibrous Material is 75% Chrysotile***

The materials assessed were in Good condition at the time of the inspection and friable **GAC will need to trace/locate all material.**

The Exterior Sealant (4A-4C) observed on Window exterior are confirmed to be an **ACM** regulated material by PLM method:

- ***PHA-B1113-10A-Light Gray Caulking Has trace amounts of Chrysotile***
- ***PHA-B1113-10B-Light Gray Caulking has trace amounts of Chrysotile***

The materials assessed were in Good condition at the time of the inspection and friable.

The Exterior Sealant (12A-12E) observed on Patio Cover is confirmed to be an **ACM** regulated material by Initial PLM method:

- ***PHA-B1113-12A-Light Gray/Tan Caulking is 40% Chrysotile***
- ***PHA-B1113-12B-Light Gray/Tan Caulking is 35% Chrysotile***
- ***PHA-B1113-12C-Light Gray/Tan Caulking is 40% Chrysotile***
- ***PHA-B1113-12D-Light Gray/Tan Caulking is 35% Chrysotile***
- ***PHA-B1113-12E-Light Gray/Tan Caulking is 35% Chrysotile***

The materials assessed were in Good condition at the time of the inspection and friable.

Unit B

The Texture on Concrete (4A-4C) observed on the lower level ceiling of Unit B are confirmed to be an **ACM** regulated material by Point Count method:

- ***PHA-B1115-4A-Tan Compound is 3% Chrysotile (Point Count-2.50%)***
- ***PHA-B1115-4B-Tan Compound is 3% Chrysotile (Positive Stop)***
- ***PHA-B1115-4C-Tan Compound is 3% Chrysotile (Positive Stop)***

The materials assessed were in Good condition at the time of the inspection and friable.

Unit C

The Texture on Concrete (4A-4C) observed on the lower level ceiling of Unit D are confirmed to be an **ACM** regulated material by Point Count method:

- ***PHA-B1117-4A-Light Tan Compound is 3% Chrysotile (Point Count- 2.75%)***
- ***PHA-B1117-4B-Light Tan Compound is 3% Chrysotile (Positive Stop)***
- ***PHA-B1117-4C-Light Tan Compound is 3% Chrysotile (Positive Stop)***

The materials assessed were in Good condition at the time of the inspection and friable.

Unit D

The Texture on Concrete (4A-4C) observed on the lower level ceiling of Unit F are confirmed to be an **ACM** regulated material by Point Count method:

- ***PHA-B1119-4A-Light Tan Compound is 4% Chrysotile***
- ***PHA-B1119-4B-Light Tan Compound is 4% Chrysotile***
- ***PHA-B1119-4C-Light Tan Compound is 4% Chrysotile***

The materials assessed were in Good condition at the time of the inspection and friable.

Unit F

The Texture on Concrete (4A-4C) observed on the lower level ceiling of Unit F are confirmed to be an **ACM** regulated material by Point Count method:

- ***PHA-B1125-4A-Light Tan Compound is 3% Chrysotile (Point Count-2.25%)***
- ***PHA-B1125-4B-Light Tan Compound is 3% Chrysotile (Positive Stop)***
- ***PHA-B1125-4C-Light Tan Compound is 3% Chrysotile (Positive Stop***

The materials assessed were in Good condition at the time of the inspection and friable.

Unit G

The Textured Plaster (2A-2E) observed on the Walls of Unit G are confirmed to be an **OSHA** regulated material by Point Count method:

- ***PHA-B1127-2A-Off-White Texture is 2% Chrysotile (Point Count-0.50%)***
- ***PHA-B1127-2B is Homogenous***
- ***PHA-B1127-2C is Homogenous***
- ***PHA-B1127-2D is Homogenous***
- ***PHA-B1127-2E is Homogenous***

The materials assessed were in Good condition at the time of the inspection and friable.

The Texture on Concrete (4A-4C) observed on the lower level ceiling of Unit G are confirmed to be an **ACM** regulated material by Point Count method:

- ***PHA-B1127-4A-Tan Compound is 3% Chrysotile (Point Count-2.25%)***
- ***PHA-B1127-4B-Tan Compound is 3% Chrysotile (positive Stop)***
- ***PHA-B1127-4C-Tan Compound is 3% Chrysotile (Positive Stop)***

The materials assessed were in Good condition at the time of the inspection and friable.

Unit H

The Textured plaster (2A-2E) observed on the Walls of Unit I are confirmed to be an **OSHA** regulated material by Point Count method:

- ***PHA-B1129-24-Off-White Texture is 3% Chrysotile (Point Count-1.00%)***
- ***PHA-B1129-2B is Homogenous***
- ***PHA-B1129-2C is Homogenous***
- ***PHA-B1129-2D is Homogenous***
- ***PHA-B1129-2E Is Homogenous***

The materials assessed were in Good condition at the time of the inspection and friable.

The Texture on Concrete (4A-4C) observed on the lower level ceiling of Unit H are confirmed to be an **ACM** regulated material by Point Count method:

- ***PHA-B1129-4A- Tan Texture is 3% Chrysotile (Point Count-1.50%)***
- ***PHA-B1129-4B-Tan Texture is 3% Chrysotile (Positive Stop)***
- ***PHA-B8119-4C- Tan Texture is 3% Chrysotile (Positive Stop)***

The materials assessed were in Good condition at the time of the inspection and friable.

Unit I

The Texture on Concrete (4A-4C) observed on the lower level ceiling of Unit I are confirmed to be an **ACM** regulated material by Point Count method:

- ***PHA-B1123-4A-tan Compound is 3% Chrysotile (Point Count-2.25%)***
- ***PHA-B1123-4B-Tan Compound is 3% Chrysotile (Positive Stop)***
- ***PHA-B1123-4C-Tan Compound is 3% Chrysotile (Positive Stop)***

The materials assessed were in Good condition at the time of the inspection and friable.

All Exterior Sealant is homogeneous for all buildings and is considered Non-Friable ACM

V. Lab Results – Confirmed/Assumed Asbestos (Initial PLM)

Forty-One (41) samples (see Photographs in Appendix 5 and Sampling Locations in Appendix 2) were confirmed to be an asbestos containing material (ACM) with initial PLM analysis as described below:

Sample ID	Material	Lab Layer Number	Asbestos Content	Quantity
PHA-B1113-2C	Textured Plaster	10B	2% Chrysotile	~2161 SF
PHA-B1113-4A	Texture on Concrete	16C	3% Chrysotile	~345 Sf
PHA-B1113-4B	Texture on Concrete	17C	3% Chrysotile	
PHA-B1113-4C	Texture on Concrete	18C	3% Chrysotile	
PHA-B1113-5A	12X12 Floor tile/Mastic	19C	6% Chrysotile	~8278 SF
PHA-B1113-5A	12X12 Floor tile/Mastic	19D	10% Chrysotile	
PHA-B1113-5B	12X12 Floor tile/Mastic	20C	6% Chrysotile	
PHA-B1113-5B	12X12 Floor tile/Mastic	20D	10% Chrysotile	
PHA-B1113-8A	TSI Sheets	37	75% Chrysotile	~300 Sf
PHA-B1113-8B	TSI Sheets	38	75% Chrysotile	
PHA-B1113-8C	TSI Sheets	39	75% Chrysotile	
PHA-B1113-10A	Exterior Sealant	28B	Trace	~250 SF
PHA-B1113-10B	Exterior Sealant	29B	Trace	
PHA-B1113-12A	Exterior Sealant 2	32	40% Chrysotile	~90 SF
PHA-B1113-12B	Exterior Sealant 2	33	35% Chrysotile	
PHA-B1113-12C	Exterior Sealant 2	34	40% Chrysotile	
PHA-B1113-12D	Exterior Sealant 2	35	35% Chrysotile	
PHA-B1113-12E	Exterior Sealant 2	36	35% Chrysotile	
PHA-B1115-4A	Texture on Concrete	16C	3% Chrysotile	~414 SF
PHA-B1115-4B	Texture on Concrete	17C	3% Chrysotile	
PHA-B1115-4C	Texture on Concrete	18C	3% Chrysotile	
PHA-B1117-4A	Texture on Concrete	16C	3% Chrysotile	~414 SF
PHA-B1117-4B	Texture on Concrete	17C	3% Chrysotile	
PHA-B1117-4C	Texture on Concrete	18C	3% Chrysotile	
PHA-B1119-4A	Texture on Concrete	16D	4% Chrysotile	~414 Sf
PHA-B1119-4B	Texture on Concrete	17C	4% Chrysotile	
PHA-B1119-4C	Texture on Concrete	18C	4% Chrysotile	

Sample ID	Material	Lab Layer Number	Asbestos Content	Quantity
PHA-B1125-4A	Texture on Concrete	16B	3% Chrysotile	~414 Sf
PHA-B1125-4B	Texture on Concrete	17B	3% Chrysotile	
PHA-B1125-4C	Texture on Chrysotile	18B	3% Chrysotile	
PHA-B1127-2A	Textured Plaster	6D	2% Chrysotile	~2520 SF
PHA-B1127-4A	Texture on Concrete	16C	3% Chrysotile	~414 SF
PHA-B1127-4B	Texture on Concrete	17C	3% Chrysotile	
PHA-B1127-4C	Texture on Concrete	18C	3% Chrysotile	
PHA-B1129-2B	Textured Plaster	7B	2% Chrysotile	~2520 SF
PHA-B1129-4A	Texture on Concrete	16C	3% Chrysotile	~414
PHA-B1129-4B	Texture on Concrete	17C	3% Chrysotile	
PHA-B1129-4C	Texture on Concrete	18C	3% Chrysotile	
PHA-B1123-4A	Texture on Concrete	16C	3% Chrysotile	~414 SF
PHA-B1123-4B	Texture on Concrete	17C	3% Chrysotile	
PHA-B1123-4C	Texture on Concrete	18C	3% Chrysotile	

~ = Approximated SF=Square Feet LF=Linear Feet

No materials were assumed

VI. Lab Results – Additional Analysis (Point Count)

Twenty (20) samples taken were confirmed to be 3% Chrysotile or less by* Aerobiology Laboratory Associates, Inc. *using Polarized Light Microscopy. Those same samples were then analyzed using the Point Count Method to determine if the samples are less than or greater than 1% asbestos. Those results are in the table below. 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). OSHA protocol, Appendix 10, must be followed when handling materials containing ANY amount of asbestos.

Sample ID	Point Count Result	CDPHE or OSHA Regulated
PHA-B1115-4A	2.50%	CDPHE
PHA-B1115-4B	Positive Stop	CDPHE
PHA-B1115-4C	Positive Stop	CDPHE
PHA-B1117-4A	2.75%	CDPHE
PHA-B1117-4B	Positive Stop	CDPHE
PHA-B1117-4C	Positive Stop	CDPHE
PHA-B1125-4A	2.25%	CDPHE
PHA-B1125-4B	Positive Stop	CDPHE
PHA-B1125-4C	Positive Stop	CDPHE
PHA-B1127-2A	0.50%	OSHA

PHA-B1127-4A	**2.25%**	**CDPHE**
PHA-B1127-4B	**Positive Stop**	**CDPHE**
PHA-B1127-4C	**Positive Stop**	**CDPHE**
PHA-B1129-2B	**1.00%**	**OSHA**
PHA-B1129-4A	**1.50%**	**CDPHE**
PHA-B1129-4B	**Positive Stop**	**CDPHE**
PHA-B1129-4C	**Positive Stop**	**CDPHE**
PHA-B1123-4A	**2.25%**	**CDPHE**
PHA-B1123-4B	**Positive Stop**	**CDPHE**
PHA-B1123-4C	**Positive Stop**	**CDPHE**

VII. Limitations:

A Colorado Certified Building Inspector used reasonable diligence and professional judgment to identify all potential asbestos containing materials in the Subject Property. This inspection complies with standards and protocol established by the Asbestos Hazardous Emergency Response Act (AHERA) and the CDPHE's, *Regulation 8.* 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.

VIII. Appendices:

The attached Appendices include:

1. **Field Sheet/Asbestos Results**
2. **Sample Location Diagram**
3. **Homogenous Material Location Diagram**
4. **ACM Location Diagram**
5. **Positive Sample Photographs**
6. **Asbestos Bulk Sample Data Sheet (test results)**
7. **Chain of Custody Forms**
8. **Asbestos Inspector Certifications/Laboratory Certifications**
9. **Trigger Level Information Sheet**
10. **OSHA Standards**

IX. Signature of Asbestos Inspector (s):

_____

Robert Sais
AHERA Certified Asbestos Inspector
Colorado Certified Asbestos Building Inspector
Certification No. 23993

_____

Joseph A. Cardenas
AHERA Certified Asbestos Inspector
Colorado Certified Asbestos Building Inspector
Certification No. 24591

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APPENDIX 1

FIELD SHEET/ASBESTOS RESULTS

Field Sheet/Asbestos Results

Site Address: Sangre De Cristo Apartments Building #11
Colorado Certified Asbestos building Inspector(s) Robert Sais, Joseph Cardenas

APEC 21 -4584		DATE INSPECTED: 10/13/2021												
Functional Space ID	Homogeneous Sampling Area ID	Sample ID	Material	Sample Collection Location	Lab Description of Layer	Lab Layer Number	Condition	Asbestos Results	Asbestos Content	Point Count Results	Quantity ft^2	Material Category	Friability	Hazard Ranking
Unit A														
UNIT A Walls	2	PHA-B1113-2C	Textured Plaster	Walls	White Texture W/White Paint	10A	Good	Negative	ND	NA	~2161	Surfacing	Friable	5
		PHA-B1113-2C	**Textured Plaster**	**Walls**	**White Texture W/White Paint**	**10B**	**Good**	**Positive**	**2% Chrysotile**	**NA**		**Surfacing**	**Friable**	
		PHA-B1113-2C	Textured Plaster	Walls	White Compound w/White paint	10C	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1113-2C	Textured Plaster	Walls	White Perlitic Plaster	10D	Good	Negative	ND	NA		Surfacing	Friable	
lower Level Ceilings	4	PHA-B1113-4A	Texture on Concrete	Lower Level Ceilings	White Texture w/Off-White paint	16A	Good	Negative	ND	NA	~345	Surfacing	Friable	5
		PHA-B1113-4A	Texture on Concrete	Lower Level Ceilings	Off-White/Multicolored paint	16B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1113-4A	**Texture on Concrete**	**Lower Level Ceilings**	**Tan Texture**	**16C**	**Good**	**Positive**	**3% Chrysotile**	**NA**		**Surfacing**	**Friable**	
		PHA-B1113-4A	Texture on Concrete	Lower Level Ceilings	Gray Granular Cementious Material	16D	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1113-4B	Texture on Concrete	Lower Level Ceilings	White Texture w/Off-White paint	17A	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1113-4B	Texture on Concrete	Lower Level Ceilings	Off-White/Multicolored paint	17B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1113-4B	**Texture on Concrete**	**Lower Level Ceilings**	**Tan Texture**	**17C**	**Good**	**Positive**	**3% Chrysotile**	**NA**		**Surfacing**	**Friable**	
		PHA-B1113-4B	Texture on Concrete	Lower Level Ceilings	Gray Granular Cementious Material	17D	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1113-4C	Texture on Concrete	Lower Level Ceilings	White Texture w/Off-White paint	18A	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1113-4C	Texture on Concrete	Lower Level Ceilings	Off-White/Multicolored paint	18B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1113-4C	**Texture on Concrete**	**Lower Level Ceilings**	**Tan Texture**	**18C**	**Good**	**Positive**	**3% Chrysotile**	**NA**		**Surfacing**	**Friable**	
		PHA-B1113-4C	Texture on Concrete	Lower Level Ceilings	Gray Granular Cementious Material	18D	Good	Negative	ND	NA		Surfacing	Friable	
Throughout Entire Building	5	PHA-B1113-5A	12X12 Floor tile/Mastic	Floors	Off-White/Brown Floor tile	19A	Good	Negative	ND	NA	~8278	Miscellaneous	Non-Friable	5
		PHA-B1113-5A	12X12 Floor tile/Mastic	Floors	Tan Mastic	19B	Good	Negative	ND	NA		Miscellaneous	Non-Friable	
		PHA-B1113-5A	**12X12 Floor tile/Mastic**	**Floors**	**Off-White/Green Floor tile**	**19C**	**Good**	**Positive**	**6% Chrysotile**	**NA**		**Miscellaneous**	**Non-Friable**	
		PHA-B1113-5A	**12X12 Floor tile/Mastic**	**Floors**	**Black Mastic**	**19D**	**Good**	**Positive**	**10% Chrysotile**	**NA**		**Miscellaneous**	**Non-Friable**	
		PHA-B1113-5B	12X12 Floor tile/Mastic	Floors	Off-White/Brown Floor tile	20A	Good	Negative	ND	NA		Miscellaneous	Non-Friable	
		PHA-B1113-5B	12X12 Floor tile/Mastic	Floors	Tan Mastic	20B	Good	Negative	ND	NA		Miscellaneous	Non-Friable	
		PHA-B1113-5B	**12X12 Floor tile/Mastic**	**Floors**	**Off-White/Green Floor tile**	**20C**	**Good**	**Positive**	**6% Chrysotile**	**NA**		**Miscellaneous**	**Non-Friable**	
		PHA-B1113-5B	**12X12 Floor tile/Mastic**	**Floors**	**Black Mastic**	**20D**	**Good**	**Positive**	**10% Chrysotile**	**NA**		**Miscellaneous**	**Non-Friable**	
Throughout Entire Building	8	**PHA-B1113-8A**	**TSI Sheets**	**HVAC System**	**Light Gray Fibrous Material**	**37**	**Good**	**Positive**	**75% Chrysotile**	**NA**	~300	**TSI**	**Friable**	5
		PHA-B1113-8B	**TSI Sheets**	**HVAC System**	**Light Gray Fibrous Material**	**38**	**Good**	**Positive**	**75% Chrysotile**	**NA**		**TSI**	**Friable**	
		PHA-B1113-8C	**TSI Sheets**	**HVAC System**	**Light Gray Fibrous Material**	**39**	**Good**	**Positive**	**75% Chrysotile**	**NA**		**TSI**	**Friable**	
Exterior	10	PHA-B1113-10A	Exterior Sealant	Exterior	Dark Brown Caulking	28A	Good	Negative	ND	NA	~250	Miscellaneous	Non-Friable	5
		PHA-B1113-10A	**Exterior Sealant**	**Exterior**	**Light Gray Caulking**	**28B**	**Good**	**Positive**	**Trace**	**NA**		**Miscellaneous**	**Non-Friable**	
		PHA-B1113-10B	Exterior Sealant	Exterior	Dark Brown Caulking w/Dark Gray Resinous Material	29A	Good	Negative	ND	NA		Miscellaneous	Non-Friable	
		PHA-B1113-10B	**Exterior Sealant**	**Exterior**	**Light Gray Caulking**	**29B**	**Good**	**Positive**	**Trace**	**NA**		**Miscellaneous**	**Non-Friable**	
Exterior	12	**PHA-B1113-12A**	**Exterior Sealant 2**	**Patio Cover**	**light Gray/Light Tan Caulking**	**32**	**Good**	**Positive**	**40% Chrysotile**	**NA**	~90	**Surfacing**	**Friable**	5
		PHA-B1113-12B	**Exterior Sealant 2**	**Patio Cover**	**light Gray/Light Tan Caulking**	**33**	**Good**	**Positive**	**35% Chrysotile**	**NA**		**Surfacing**	**Friable**	
		PHA-B1113-12C	**Exterior Sealant 2**	**Patio Cover**	**light Gray/Light Tan Caulking**	**34**	**Good**	**Positive**	**40% Chrysotile**	**NA**		**TSI**	**Friable**	
		PHA-B1113-12D	**Exterior Sealant 2**	**Patio Cover**	**light Gray/Light Tan Caulking**	**35**	**Good**	**Positive**	**35% Chrysotile**	**NA**		**TSI**	**Friable**	
		PHA-B1113-12E	**Exterior Sealant 2**	**Patio Cover**	**light Gray/Light Tan Caulking**	**36**	**Good**	**Positive**	**35% Chrysotile**	**NA**		**TSI**	**Friable**	
Unit B														
lower Level Ceilings	4	PHA-B1115-4A	Texture on Concrete	Lower Level Ceilings	Off-White texture w/Cream paint	16A	Good	Negative	ND	NA	~414	Surfacing	Friable	5
		PHA-B1115-4A	Texture on Concrete	Lower Level Ceilings	Cream/multicolored paint	16B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1115-4A	**Texture on Concrete**	**Lower Level Ceilings**	**Tan Compound**	**16C**	**Good**	**Positive**	**3% Chrysotile**	**2.50%**		**Surfacing**	**Friable**	
		PHA-B1115-4A	Texture on Concrete	Lower Level Ceilings	Gray Granular Material	16D	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1115-4B	Texture on Concrete	Lower Level Ceilings	Off-White texture w/Cream paint	17A	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1115-4B	Texture on Concrete	Lower Level Ceilings	Cream/multicolored paint	17B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1115-4B	**Texture on Concrete**	**Lower Level Ceilings**	**Tan Compound**	**17C**	**Good**	**Positive**	**3% Chrysotile**	**Positive Stop**		**Surfacing**	**Friable**	
		PHA-B1115-4B	Texture on Concrete	Lower Level Ceilings	Gray Granular Material	17D	Good	Negative	ND	NA		Surfacing	Frianble	
		PHA-B1115-4C	Texture on Concrete	Lower Level Ceilings	Off-White texture w/Cream paint	18A	Good	Negative	ND	NA		Surfacing	Frianble	
		PHA-B1115-4C	Texture on Concrete	Lower Level Ceilings	Cream/multicolored paint	18B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1115-4C	**Texture on Concrete**	**Lower Level Ceilings**	**Tan Compound**	**18C**	**Good**	**Positive**	**3% Chrysotile**	**Positive Stop**		**Surfacing**	**Friable**	
		PHA-B1115-4C	Texture on Concrete	Lower Level Ceilings	Gray Granular Material	18D	Good	Negative	ND	NA		Surfacing	Friable	
Unit C														
lower Level Ceilings	4	PHA-B1117-4A	Texture on Concrete	Lower Level Ceilings	Off-White texture w/Cream paint	16A	Good	Negative	ND	NA	~414	Surfacing	Friable	5
		PHA-B1117-4A	Texture on Concrete	Lower Level Ceilings	Cream Paint	16B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1117-4A	**Texture on Concrete**	**Lower Level Ceilings**	**Tan Compound**	**16C**	**Good**	**Positive**	**3% Chrysotile**	**2.75%**		**Surfacing**	**Friable**	
		PHA-B1117-4A	Texture on Concrete	Lower Level Ceilings	Gray Granular Material	16D	Good	Negative	ND	NA		Surfacing	Friable	

Functional Space ID	Homogeneous Sampling Area ID	Sample ID	Material	Sample Collection Location	Lab Description of Layer	Lab Layer Number	Condition	Asbestos Results	Asbestos Content	Point Count Results	Quantity ft^2	Material Category	Friability	Hazard Ranking
lower Level Ceilings	4	PHA-B1117-4B	Texture on Concrete	Lower Level Ceilings	Off-White texture w/Cream paint	17A	Good	Negative	ND	NA	~414	Surfacing	Friable	5
		PHA-B1117-4B	Texture on Concrete	Lower Level Ceilings	Cream Paint	17B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1117-4B	Texture on Concrete	Lower Level Ceilings	Tan Compound	17C	Good	Positive	3% Chrysotile	Positive Stop		Surfacing	Friable	
		PHA-B1117-4B	Texture on Concrete	Lower Level Ceilings	Gray Granular Material	17D	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1117-4C	Texture on Concrete	Lower Level Ceilings	Off-White texture w/Cream paint	18A	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1117-4C	Texture on Concrete	Lower Level Ceilings	Cream Paint	18B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1117-4C	Texture on Concrete	Lower Level Ceilings	Tan Compound	18C	Good	Positive	3% Chrysotile	Positive Stop		Surfacing	Friable	
		PHA-B1117-4C	Texture on Concrete	Lower Level Ceilings	Gray Granular Material	18D	Good	Negative	ND	NA		Surfacing	Friable	
					Unit D									
lower Level Ceilings	4	PHA-B1119-4A	Texture on Concrete	Lower Level Ceilings	White Texture w/Off-White paint	16A	Good	Negative	ND	NA	~414	Surfacing	Friable	5
		PHA-B1119-4A	Texture on Concrete	Lower Level Ceilings	Off-White Paint w/White Texture	16B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1119-4A	Texture on Concrete	Lower Level Ceilings	Off-White/Multicolored paint	16C	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1119-4A	Texture on Concrete	Lower Level Ceilings	Off-White Compound	16D	Good	Positive	4% Chrysotile	NA		Surfacing	Friable	
		PHA-B1119-4A	Texture on Concrete	Lower Level Ceilings	Gray Granular Cementious Material	16E	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1119-4B	Texture on Concrete	Lower Level Ceilings	Off-White Texture w/White Paint	17A	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1119-4B	Texture on Concrete	Lower Level Ceilings	Off-White/Multicolored paint	17B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1119-4B	Texture on Concrete	Lower Level Ceilings	Off-White Compound	17C	Good	Positive	4% Chrysotile	NA		Surfacing	Friable	
		PHA-B1119-4B	Texture on Concrete	Lower Level Ceilings	Gray Granular Cementious Material	17D	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1119-4C	Texture on Concrete	Lower Level Ceilings	Off-White Texture w/White Paint	18A	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1119-4C	Texture on Concrete	Lower Level Ceilings	Off-White/Multicolored paint	18B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1119-4C	Texture on Concrete	Lower Level Ceilings	Off-White Compound	18C	Good	Positive	4% Chrysotile	NA		Surfacing	Friable	
		PHA-B1119-4C	Texture on Concrete	Lower Level Ceilings	Gray Granular Cementious Material	17D	Good	Negative	ND	NA		Surfacing	Friable	
					Unit F									
lower Level Ceilings	4	PHA-B1125-4A	Texture on Concrete	Lower Level Ceilings	White Texture W/White Paint	16A	Good	Negative	ND	NA	~414	Surfacing	Friable	5
		PHA-B1125-4A	Texture on Concrete	Lower Level Ceilings	Tan Texture w/White Paint	16B	Good	Positive	3% Chrysotile	2.25%		Surfacing	Friable	
		PHA-B1125-4A	Texture on Concrete	Lower Level Ceilings	Gray Granular Material	16C	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1125-4B	Texture on Concrete	Lower Level Ceilings	White Texture W/White Paint	17A	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1125-4B	Texture on Concrete	Lower Level Ceilings	Tan Texture w/White Paint	17B	Good	Positive	3% Chrysotile	Positive Stop		Surfacing	Friable	
		PHA-B1125-4B	Texture on Concrete	Lower Level Ceilings	Gray Granular Material	17C	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1125-4C	Texture on Concrete	Lower Level Ceilings	White Texture W/White Paint	18A	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1125-4C	Texture on Concrete	Lower Level Ceilings	Tan Texture w/White Paint	18B	Good	Positive	3% Chrysotile	Positive Stop		Surfacing	Friable	
		PHA-B1125-4C	Texture on Concrete	Lower Level Ceilings	Gray Granular Material	18C	Good	Negative	ND	NA		Surfacing	Friable	
					Unit G									
Unit G Walls	2	PHA-B1127-2A	Textured Plaster	Walls	White Texture w/Cream/White Paint	6A	Good	Negative	ND	NA	~2520	Surfacing	Friable	OSHA
		PHA-B1127-2A	Textured Plaster	Walls	White Texture w/Cream Paint	6B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1127-2A	Textured Plaster	Walls	White paint	6C	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1127-2A	Textured Plaster	Walls	Off-White Texture	6D	Good	Positive	2% Chrysotile	0.50%		Surfacing	Friable	
		PHA-B1127-2A	Textured Plaster	Walls	White Plaster w/Tan Paint	6E	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1127-2A	Textured Plaster	Walls	Gray Perlitic Plaster	6F	Good	Negative	ND	NA		Surfacing	Friable	
lower Level Ceilings	4	PHA-B1127-4A	Texture on Concrete	Lower Level Ceilings	Off-White texture w/Cream paint	16A	Good	Negative	ND	NA	~414	Surfacing	Friable	5
		PHA-B1127-4A	Texture on Concrete	Lower Level Ceilings	Off-White Paint	16B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1127-4A	Texture on Concrete	Lower Level Ceilings	Tan Compound	16C	Good	Positive	3% Chrysotile	2.25%		Surfacing	Friable	
		PHA-B1127-4A	Texture on Concrete	Lower Level Ceilings	Gray Granular Material	16D	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1127-4B	Texture on Concrete	Lower Level Ceilings	Off-White texture w/Cream paint	17A	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1127-4B	Texture on Concrete	Lower Level Ceilings	Off-White Paint	17B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1127-4B	Texture on Concrete	Lower Level Ceilings	Tan Compound	17C	Good	Positive	3% Chrysotile	Positive Stop		Surfacing	Friable	
		PHA-B1127-4B	Texture on Concrete	Lower Level Ceilings	Gray Granular Material	17D	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1127-4C	Texture on Concrete	Lower Level Ceilings	Off-White texture w/Cream paint	18A	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1127-4C	Texture on Concrete	Lower Level Ceilings	Off-White Paint	18B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1127-4C	Texture on Concrete	Lower Level Ceilings	Tan Compound	18C	Good	Positive	3% Chrysotile	Positive Stop		Surfacing	Friable	
		PHA-B1127-4C	Texture on Concrete	Lower Level Ceilings	Gray Granular Material	18D	Good	Negative	ND	NA		Surfacing	Friable	
					Unit H									
Unit H Walls	2	PHA-B1129-2B	Textured Plaster	Walls	White Texture w/White Paint	7A	Good	Negative	ND	NA	~2520	Surfacing	Friable	OSHA
		PHA-B1129-2B	Textured Plaster	Walls	White Texture W/White Paint	7B	Good	Positive	2% Chrysotile	1.00%		Surfacing	Friable	
		PHA-B1129-2B	Textured Plaster	Walls	White Compound w/White paint	7C	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1129-2B	Textured Plaster	Walls	White Perlitic Plaster	7D	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1129-2B	Textured Plaster	Walls	Brown Fibrous Material	7E	Good	Negative	ND	NA		Surfacing	Friable	
lower Level Ceilings	4	PHA-B1129-4A	Texture on Concrete	Lower Level Ceilings	Light GrayPaint w/White Texture	16A	Good	Negative	ND	NA	~414	Surfacing	Friable	5
		PHA-B1129-4A	Texture on Concrete	Lower Level Ceilings	White/Multicolored Paint	16B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1129-4A	Texture on Concrete	Lower Level Ceilings	Tan Texture	16C	Good	Positive	3% Chrysotile	1.50%		Surfacing	Friable	
		PHA-B1129-4A	Texture on Concrete	Lower Level Ceilings	Pink Perlitic Plaster	16D	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1129-4B	Texture on Concrete	Lower Level Ceilings	Light GrayPaint w/White Texture	17A	Good	Negative	ND	NA		Surfacing	Friable	

Functional Space ID	Homogeneous Sampling Area ID	Sample ID	Material	Sample Collection Location	Lab Description of Layer	Lab Layer Number	Condition	Asbestos Results	Asbestos Content	Point Count Results	Quantity ft^2	Material Category	Friability	Hazard Ranking
lower Level Ceilings	4	PHA-B1129-4B	Texture on Concrete	Lower Level Ceilings	White/Multicolored Paint	17B	Good	Negative	ND	NA	~414	Surfacing	Friable	5
		PHA-B1129-4B	**Texture on Concrete**	**Lower Level Ceilings**	**Tan Texture**	**17C**	**Good**	**Positive**	**3% Chrysotile**	**2.25%**		**Surfacing**	**Friable**	
		PHA-B1129-4B	Texture on Concrete	Lower Level Ceilings	Pink Perlitic Plaster	17D	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1129-4C	Texture on Concrete	Lower Level Ceilings	Light GrayPaint w/White Texture	18A	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1129-4C	Texture on Concrete	Lower Level Ceilings	White/Multicolored Paint	18B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1129-4C	**Texture on Concrete**	**Lower Level Ceilings**	**Tan Texture**	**18C**	**Good**	**Positive**	**3% Chrysotile**	**Positive Stop**		**Surfacing**	**Friable**	
		PHA-B1129-4C	Texture on Concrete	Lower Level Ceilings	Pink Perlitic Plaster	18D	Good	Negative	ND	NA		Surfacing	Friable	
					Unit I									
lower Level Ceilings	4	PHA-B1123-4A	Texture on Concrete	Lower Level Ceilings	Off-White texture w/Cream paint	16A	Good	Negative	ND	NA	~414	Surfacing	Friable	5
		PHA-B1123-4A	Texture on Concrete	Lower Level Ceilings	Cream/multicolored paint	16B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1123-4A	**Texture on Concrete**	**Lower Level Ceilings**	**Tan Compound**	**16C**	**Good**	**Positive**	**3% Chrysotile**	**2.25%**		**Surfacing**	**Friable**	
		PHA-B1123-4A	Texture on Concrete	Lower Level Ceilings	Gray Granular Material	16D	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1123-4B	Texture on Concrete	Lower Level Ceilings	Off-White texture w/Cream paint	17A	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1123-4B	Texture on Concrete	Lower Level Ceilings	Cream/multicolored paint	17B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1123-4B	**Texture on Concrete**	**Lower Level Ceilings**	**Tan Compound**	**17C**	**Good**	**Positive**	**3% Chrysotile**	**Positive Stop**		**Surfacing**	**Friable**	
		PHA-B1123-4B	Texture on Concrete	Lower Level Ceilings	Gray Granular Material	17D	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1123-4C	Texture on Concrete	Lower Level Ceilings	Off-White texture w/Cream paint	18A	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1123-4C	Texture on Concrete	Lower Level Ceilings	Cream/multicolored paint	18B	Good	Negative	ND	NA		Surfacing	Friable	
		PHA-B1123-4C	**Texture on Concrete**	**Lower Level Ceilings**	**Tan Compound**	**18C**	**Good**	**Positive**	**3% Chrysotile**	**Positive Stop**		**Surfacing**	**Friable**	
		PHA-B1123-4C	Texture on Concrete	Lower Level Ceilings	Gray Granular Material	18D	Good	Negative	ND	NA		Surfacing	Friable	

Red = Positive
Blue=OSHA

> = Greater Than
< = Less Than
~ = Approximated
ND = None Detected
NA = Not Applicable
ft^2 = square feet
* = positive due to homogeneity
TBD = To be determined upon demo
SD = Significantly Damaged

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

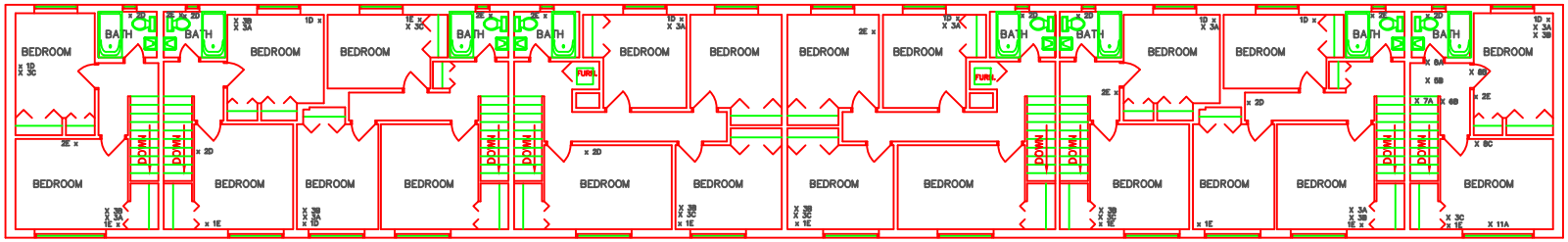
Materials containing ANY amount of asbestos should be handled according OSHA protocol.

Hazard Ranking Classifications

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.
6. ACBM with potential for significant damage.
7. Any remaining friable ACBM or friable suspected ACBM.

APPENDIX 2

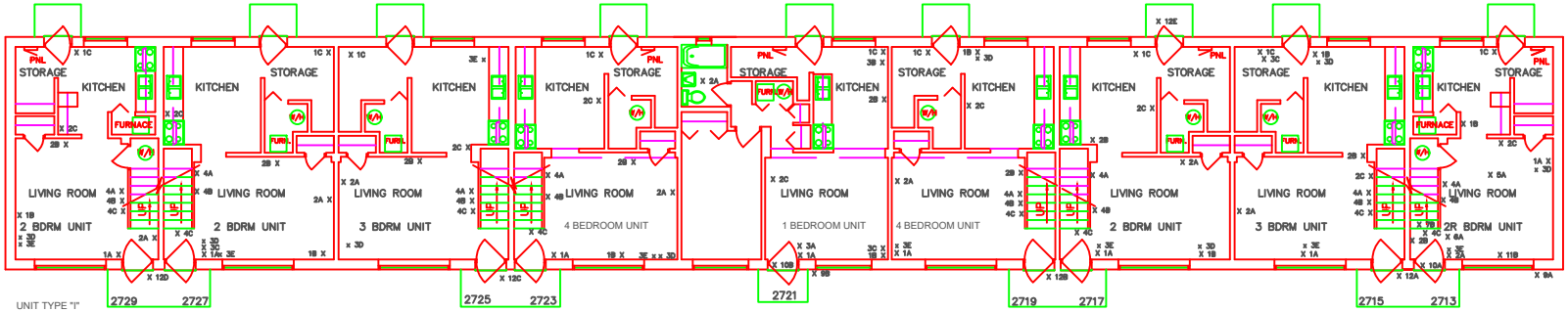
SAMPLE LOCATION DIAGRAM



UNIT TYPE "I"
2 SECOND FLOOR PLAN

Building 11– Sample location Map

RE: SITE PLAN SHEET S1, BUILDING 45I



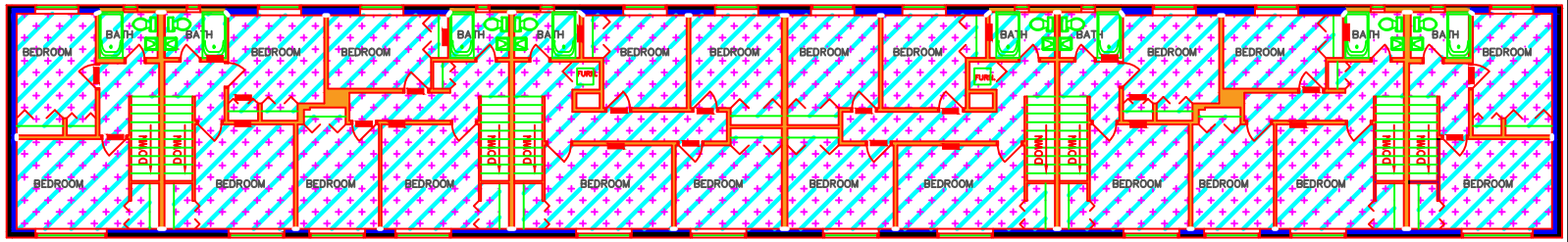
UNIT TYPE "I"
1 FIRST FLOOR PLAN

Not To Scale:

For Reference only

APPENDIX 3

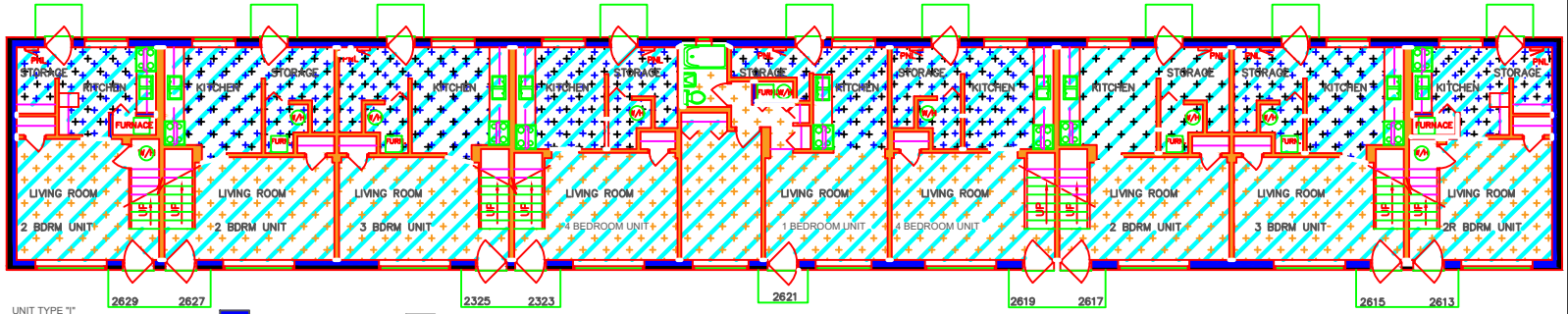
HOMOGENEOUS MATERIAL LOCATION DIAGRAM



UNIT TYPE "I"
2 SECOND FLOOR PLAN

Building 11 – Homogeneous Material Map

RE: SITE PLAN SHEET S1, BUILDING 45I



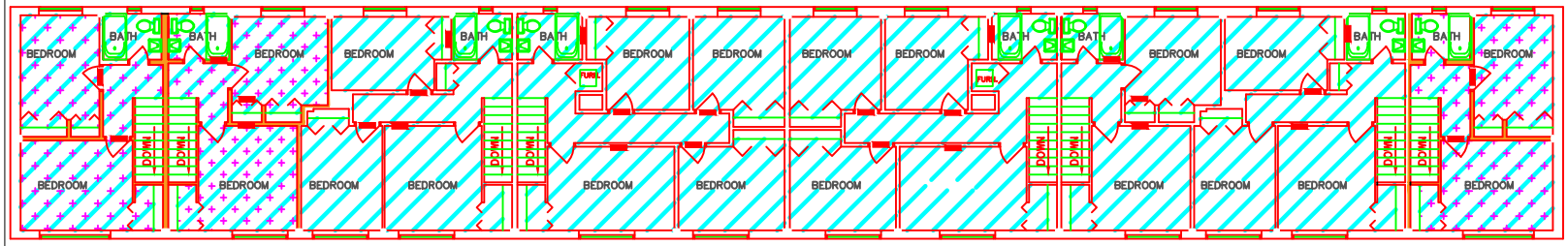
UNIT TYPE "I"
1 FIRST FLOOR PLAN

Not To Scale:
For Reference only

Textured Drywall
Smooth Plaster
Texture Concrete Ceiling
Textured Plastered Ceiling
TSI Sheets
Multi–Layer Floor Tile 12x12
Textured Plaster
Textured Drywall over Smooth Plaster Ceiling

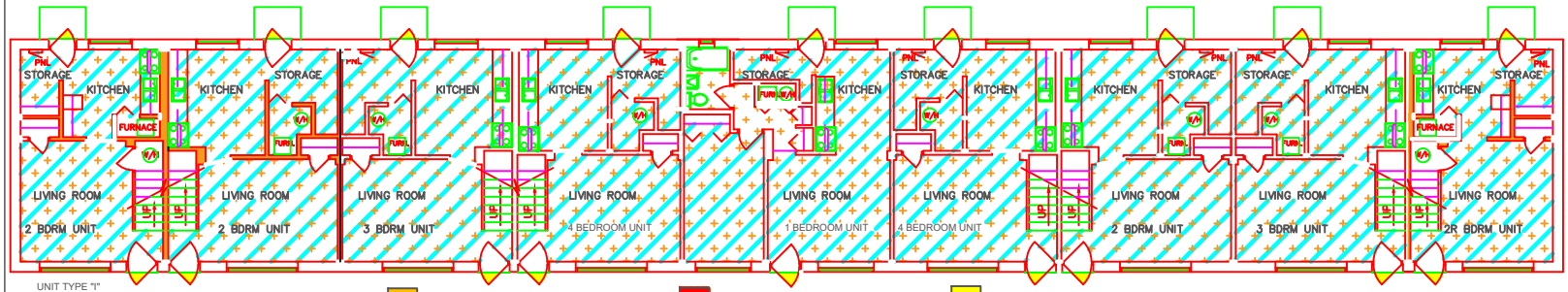
APPENDIX 4

ACM LOCATION DIAGRAM



UNIT TYPE "I"
2 SECOND FLOOR PLAN

Building 11– ACM Location Map



UNIT TYPE "I"
1 FIRST FLOOR PLAN

Not To Scale:
For Reference only

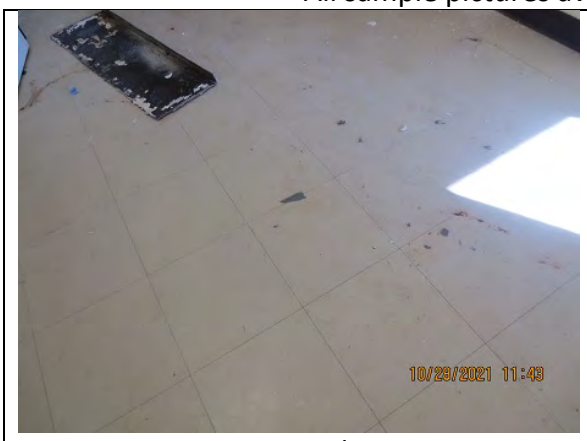
- Textured Plaster
- Multi–Layer Floor Tile 12x12
- TSI Sheets
- Texture Concrete Ceiling
- Exterior Sealant(Doors)
- Textured Plastered Ceiling

APPENDIX 5

POSITIVE - SAMPLE PHOTOGRAPHS

(PHOTOS & DESCRIPTIONS)

All sample pictures available upon request



12X12 VCT Floor tile/Mastic (ACM)

12x12 VCT Floor Mastic/Mastic (ACM)

TSI Sheeting (ACM)

Textured Plaster (ACM)

Texture on Concrete (ACM)

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APPENDIX 6

ASBESTOS BULK SAMPLE DATA SHEET (TEST RESULTS)

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Certificate of Analysis

NVLAP TESTING
NVLAP Lab Code 200860-0

Client Name	All-Phase Environmental Consultants, Inc.	Date Collected:	10/13/2021
Street Address	721 W. 9th St.	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003	Date Analyzed:	10/26/2021
Attn:	Joseph Cardenas	Date Reported:	10/26/2021
Client Project Name:	21-4584 (A) Building #11 / Pueblo Housing Authority	Project ID:	21047587

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1113-1A	21047587-1A	White Texture with White Paint	N	10	ND			100	C
	21047587-1B	White Texture with White Paint	N	10	ND			100	C
	21047587-1C	White/Tan Drywall	N	80	ND		10 CELL	90	G
PHA-B1113-1B	21047587-2A	White Texture with White Paint	N	3	ND			100	C
	21047587-2B	White Texture with White Paint	N	3	ND			100	C
	21047587-2C	White/Tan Drywall	N	94	ND		10 CELL	90	G
PHA-B1113-1C	21047587-3A	White Texture with White Paint	N	2	ND			100	C
	21047587-3B	White/Tan Drywall	N	98	ND		10 CELL	90	G
PHA-B1113-1D	21047587-4A	White Texture with White Paint	N	2	ND			100	C
	21047587-4B	White/Tan Drywall	N	98	ND		10 CELL	90	G

Paul Knappe
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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CR = Crocidolite	OT = Other	M = Mica	
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Tr = Trace	TL = Talc	OP = Opaques	
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Client	Lab Sample Number								
PHA-B1113-1E	21047587-5A	White Texture with White Paint	N	3	ND			100	C
	21047587-5B	White/Tan Drywall	N	97	ND		10 CELL	90	G
PHA-B1113-2A	21047587-6A	White Texture with White Paint	N	4	ND			100	C
	21047587-6B	White Compound with White Paint	N	36	ND			100	C
	21047587-6C	White Perlitic Plaster	Y	60	ND		Tr AH	100	P
PHA-B1113-2B	21047587-7A	White Texture with White Paint	N	4	ND			100	C
	21047587-7B	White Compound with White Paint	N	20	ND			100	C
	21047587-7C	White Perlitic Plaster	Y	76	ND		Tr AH	100	P
PHA-B1113-2C	21047587-8A	White Texture with White Paint	N	4	ND			100	C
	21047587-8B	White Compound with White Paint	N	20	ND			100	C

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Client	Lab Sample Number								
PHA-B1113-2C	21047587-8C	White Perlitic Plaster	Y	76	ND		Tr AH	100	P
PHA-B1113-2D	21047587-9A	White Texture with White Paint	N	2	ND			100	C
	21047587-9B	White Compound with White Paint	N	8	ND			100	C
	21047587-9C	White Perlitic Plaster	Y	90	ND		Tr AH	100	P
PHA-B1113-2E	21047587-10A	White Texture with White Paint	N	2	ND			100	C
	21047587-10B	**White Texture with White Paint**	**N**	**2**	**CHRY**	**2**		**98**	**C**
	21047587-10C	White Compound with White Paint	N	15	ND			100	C
	21047587-10D	White Perlitic Plaster	Y	81	ND		Tr AH	100	P
PHA-B1113-3A	21047587-11A	White Plaster with Beige/Tan Paint	N	10	ND			100	G
	21047587-11B	Gray Perlitic Plaster	N	90	ND		1 AH	99	G

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Client	Lab Sample Number								
PHA-B1113-3B	21047587-12A	White Plaster with Beige/Tan Paint	N	15	ND			100	G
	21047587-12B	Gray Perlitic Plaster	N	85	ND		1 AH	99	G
PHA-B1113-3C	21047587-13A	White Plaster with Beige/Tan Paint	N	8	ND			100	G
	21047587-13B	Gray Perlitic Plaster	N	40	ND		1 AH	99	G
	21047587-13C	Off-White/Tan Drywall	N	52	ND		15 CELL	85	G
PHA-B1113-3D	21047587-14A	White Plaster with Beige/Tan Paint	N	8	ND			100	G
	21047587-14B	Gray Perlitic Plaster	N	44	ND		1 AH	99	G
	21047587-14C	Off-White/Tan Drywall	N	48	ND		15 CELL	85	G
PHA-B1113-3E	21047587-15A	White Plaster with Beige/Tan Paint	N	15	ND			100	G
	21047587-15B	Gray Perlitic Plaster	N	85	ND		1 AH	99	G

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Client	Lab Sample Number								
PHA-B1113-4A	21047587-16A	White Texture with Off-White Paint	N	20	ND			100	C
	21047587-16B	Off-White/Multicolored Paint	N	10	ND			100	
	21047587-16C	**Tan Texture**	**Y**	**45**	**CHRY**	**3**		**97**	**C**
	21047587-16D	Gray Granular Cementitious Material	N	25	ND			100	Q
PHA-B1113-4B	21047587-17A	White Texture with Off-White Paint	N	30	ND			100	C
	21047587-17B	Off-White/Multicolored Paint	N	15	ND			100	
	21047587-17C	**Tan Texture**	**Y**	**45**	**CHRY**	**3**		**97**	**C**
	21047587-17D	Gray Granular Cementitious Material	N	10	ND			100	Q
PHA-B1113-4C	21047587-18A	White Texture with Off-White Paint	N	20	ND			100	C
	21047587-18B	Off-White/Multicolored Paint	N	10	ND			100	

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Client	Lab Sample Number								
PHA-B1113-4C	**21047587-18C**	**Tan Texture**	**Y**	**45**	**CHRY**	**3**		**97**	**C**
	21047587-18D	Gray Granular Cementitious Material	N	25	ND			100	Q
PHA-B1113-5A	21047587-19A	Off-White/Brown Floor Tile	Y	63	ND			100	B,C
	21047587-19B	Tan Mastic	Y	3	ND			100	B,C
	21047587-19C	**Off-White/Green Floor Tile**	**Y**	**33**	**CHRY**	**6**		**94**	**B,C**
	21047587-19D	**Black Mastic**	**Y**	**1**	**CHRY**	**10**		**90**	**T**
PHA-B1113-5B	21047587-20A	Off-White/Brown Floor Tile	Y	47	ND			100	B,C
	21047587-20B	Tan Mastic	Y	3	ND			100	B,C
	21047587-20C	**Off-White/Green Floor Tile**	**Y**	**47**	**CHRY**	**5**		**95**	**B,C**
	21047587-20D	**Black Mastic**	**Y**	**3**	**CHRY**	**10**		**90**	**T**

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Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1113-6A	21047587-21A	Dark Brown Cove Base	Y	89	ND			100	B,C
	21047587-21B	Brown Mastic	Y	4	ND			100	B
	21047587-21C	Clear Mastic	Y	4	ND			100	B
	21047587-21D	White Compound	Y	3	ND			100	B,C
PHA-B1113-6B	21047587-22A	Dark Brown Cove Bae	Y	98	ND			100	B,C
	21047587-22B	Dark Brown Mastic	Y	2	ND			100	B
PHA-B1113-7A	21047587-23A	Dark Brown Stair Tread	Y	96	ND			100	B,C
	21047587-23B	Brown Mastic	Y	2	ND			100	B
	21047587-23C	Tan Mastic	Y	2	ND			100	B,C
PHA-B1113-7B	21047587-24A	Dark Brown Stair Tread	Y	98	ND			100	B,C

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Client	Lab Sample Number								
PHA-B1113-7B	21047587-24B	Brown Mastic	Y	2	ND			100	B
PHA-B1113-9A	21047587-25A	Red Brick Material	Y	60	ND			100	Q
	21047587-25B	Gray Granular Cementitious Material	N	40	ND			100	Q
PHA-B1113-9B	21047587-26A	Red Brick Material	Y	55	ND			100	Q
	21047587-26B	Gray Granular Cementitious Material	N	45	ND			100	Q
PHA-B1113-9C	21047587-27	SAMPLE NOT RECEIVED							
PHA-B1113-10A	21047587-28A	Dark Brown Caulking	Y	20	ND			100	B,C
	21047587-28B	**Light Gray Caulking**	**Y**	**80**	**CHRY**	**Tr**	**5 TL**	**95**	**B,C**
PHA-B1113-10B	21047587-29A	Dark Brown Caulking with Dark Gray Resinous Material	N	99	ND			100	B,C
	21047587-29B	**Light Gray Caulking**	**Y**	**1**	**CHRY**	**Tr**	**3 TL**	**97**	**B,C**

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PHA-B1113-11A	21047587-30A	Off-White Caulking	Y	45	ND			100	B,C
	21047587-30B	White Caulking	Y	40	ND			100	B,C
	21047587-30C	White Compound	N	15	ND			100	C
PHA-B1113-12B	21047587-31A	Off-White Caulking	Y	80	ND			100	B,C
	21047587-31B	White Caulking	Y	10	ND			100	B,C
	21047587-31C	White Compound	Y	10	ND			100	C
PHA-B1113-12A	**21047587-32**	**Light Gray/Light Tan Caulking**	**Y**	**100**	**CHRY**	**40**		**60**	**B,C**
PHA-B1113-12B	**21047587-33**	**Light Gray/Light Tan Caulking**	**Y**	**100**	**CHRY**	**35**		**65**	**B,C**
PHA-B1113-12C	**21047587-34**	**Light Gray/Light Tan Caulking**	**Y**	**100**	**CHRY**	**40**		**60**	**B,C**
PHA-B1113-12D	**21047587-35**	**Light Gray/Light Tan Caulking**	**Y**	**100**	**CHRY**	**35**		**65**	**B,C**

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PHA-B1113-12E	**21047587-36**	**Light Gray/Light Tan Caulking**	**Y**	**100**	**CHRY**	**35**		**65**	**B,C**
PHA-B1113-8A (Not on Original COC)	**21047587-37**	**Light Gray Fibrous Material**	**Y**	**100**	**CHRY**	**75**	**15 CELL**	**10**	
PHA-B1113-8B (Not on Original COC)	**21047587-38**	**Light Gray Fibrous Material**	**Y**	**100**	**CHRY**	**75**	**15 CELL**	**10**	
PHA-B1113-8C (Not on Original COC)	**21047587-39**	**Light Gray Fibrous Material**	**Y**	**100**	**CHRY**	**75**	**15 CELL**	**10**	

Paul Knappe
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

AC = Actinolite	AH = Animal Hair	B = Binder	Q = Quartz
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AN = Anthophyllite	FG = Fibrous Glass	D = Diatoms	V = Vermiculite
CHRY = Chrysotile	MW = Mineral Wool	G = Gypsum	
CR = Crocidolite	OT = Other	M = Mica	
TRM = Tremolite	SYN = Synthetic	OR = Organic	
Tr = Trace	TL = Talc	OP = Opaques	
ND = None Detected	W = Wollastonite	P = Perlite	

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Certificate of Analysis

Client Name	All-Phase Environmental Consultants, Inc.	NVLAP TESTING	Date Collected:	10/13/2021
Street Address	721 W. 9th St.	NVLAP Lab Code 200860-0	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed:	10/26/2021
Attn:	Joseph Cardenas		Date Reported:	10/26/2021
Client Project Name:	21-4584 (A) Building #11 / Pueblo Housing Authority		Project ID:	21047587

Test Requested: **3002, Asbestos in Bulk Samples**
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

General Notes

- **ND** indicates no asbestos was detected; the method detection limit is 1 %.
- **Trace** or "< 1" indicates asbestos was identified in the sample, but the concentration is less than 1% and cannot be quantified without point counting.
- Samples identified as inhomogeneous (more than one layer) are separated into individual layers, and each layer is analyzed and reported separately.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.
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City, State ZIP	Pueblo, CO 81003		Date Analyzed: 10/26/2021
Attn:	Joseph Cardenas	NVLAP Lab Code 200860-0	Date Reported: 10/26/2021
Client Project Name:	21-4584 (B) Building #11 / Pueblo Housing Authority		Project ID: 21047589

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1115-1A	21047589-1A	Tan Resinous Material	Y	Tr	ND			100	B
	21047589-1B	White Texture with Cream/White Paint	N	12	ND			100	C
	21047589-1C	Pink/Tan Drywall	N	88	ND		20 CELL	80	G
PHA-B1115-1B	21047589-2A	Tan Resinous Material	Y	Tr	ND			100	B
	21047589-2B	White Texture with Cream/White Paint	N	10	ND			100	C
	21047589-2C	Pink/Tan Drywall	N	90	ND		15 CELL	85	G
PHA-B1115-1C	21047589-3A	White Texture with Cream/White Paint	N	12	ND			100	C
	21047589-3B	Pink/Tan Drywall	N	88	ND		15 CELL	85	G
PHA-B1115-1D	21047589-4A	White Texture with Cream/White Paint	N	10	ND			100	C
	21047589-4B	Pink/Tan Drywall	N	90	ND		15 CELL	85	G

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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NVLAP Lab Code 200860-0

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City, State ZIP	Pueblo, CO 81003	Date Analyzed:	10/26/2021
Attn:	Joseph Cardenas	Date Reported:	10/26/2021
Client Project Name:	21-4584 (B) Building #11 / Pueblo Housing Authority	Project ID:	21047589

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1115-1E	21047589-5A	White Texture with Cream/White Paint	N	15	ND			100	C
	21047589-5B	Pink/Tan Drywall	N	85	ND		20 CELL	80	G
PHA-B1115-2A	21047589-6A	White Texture with Cream/White Paint	N	12	ND			100	C
	21047589-6B	White Plaster with Off-White/Tan Paint	N	20	ND			100	G
	21047589-6C	Gray Perlitic Plaster	N	58	ND		1 AH	99	G
	21047589-6D	Off-White/Tan Drywall	N	10	ND		15 CELL	85	G
PHA-B1115-2B	21047589-7A	White Texture with Cream/White Paint	N	12	ND			100	C
	21047589-7B	White Plaster with Off-White/Tan Paint	N	25	ND			100	G
	21047589-7C	Gray Perlitic Plaster	N	63	ND		1 AH	99	G
PHA-B1115-2C	21047589-8A	White Texture with Cream/White Paint	N	15	ND			100	C

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Attn:	Joseph Cardenas	NVLAP Lab Code 200860-0	Date Reported: 10/26/2021
Client Project Name:	21-4584 (B) Building #11 / Pueblo Housing Authority		Project ID: 21047589

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1115-2C	21047589-8B	White Plaster with Tan/Multicolored Paint	N	25	ND			100	G
	21047589-8C	Gray Perlitic Plaster	N	60	ND		1 AH	99	G
PHA-B1115-2D	21047589-9A	White Texture with Cream/White Paint	N	10	ND			100	C
	21047589-9B	White Plaster with Off-White/Tan Paint	N	25	ND			100	G
	21047589-9C	Gray Perlitic Plaster	N	65	ND		2 AH	98	G
PHA-B1115-2E	21047589-10A	White Texture with Cream/White Paint	N	20	ND			100	C
	21047589-10B	White Plaster with Tan/Multicolored Paint	N	15	ND			100	G
	21047589-10C	Gray Perlitic Plaster	N	65	ND		2 AH	98	G
PHA-B1115-3A	21047589-11A	White Plaster with Cream/Multicolored Paint	N	20	ND			100	G
	21047589-11B	Pink Perlitic Granular Plaster	N	80	ND		2 AH	98	P,Q

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City, State ZIP	Pueblo, CO 81003		Date Analyzed: 10/26/2021
Attn:	Joseph Cardenas	NVLAP Lab Code 200860-0	Date Reported: 10/26/2021
Client Project Name:	21-4584 (B) Building #11 / Pueblo Housing Authority		Project ID: 21047589

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1115-3B	21047589-12A	White Plaster with Cream/Multicolored Paint	N	18	ND			100	G
	21047589-12B	Pink Perlitic Granular Plaster	N	82	ND		2 AH	98	P,Q
PHA-B1115-3C	21047589-13A	White Plaster with Cream/Multicolored Paint	N	15	ND			100	G
	21047589-13B	Pink Perlitic Granular Plaster	N	85	ND		2 AH	98	P,Q
PHA-B1115-3D	21047589-14A	White Plaster with Cream/Multicolored Paint	N	12	ND			100	G
	21047589-14B	Pink Perlitic Granular Plaster	N	88	ND		2 AH	98	P,Q
PHA-B1115-3E	21047589-15A	White Plaster with Cream/Multicolored Paint	N	10	ND			100	G
	21047589-15B	Pink Perlitic Granular Plaster	N	90	ND		2 AH	98	P,Q
PHA-B1115-4A	21047589-16A	Off-White Texture with Cream Paint	N	11	ND			100	C
	21047589-16B	Cream/Multicolored Paint	N	10	ND			100	

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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Street Address	721 W. 9th St.	NVLAP® TESTING	Date Received: 10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed: 10/26/2021
Attn:	Joseph Cardenas	NVLAP Lab Code 200860-0	Date Reported: 10/26/2021
Client Project Name:	21-4584 (B) Building #11 / Pueblo Housing Authority		Project ID: 21047589

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1115-4A	**21047589-16C**	**Tan Compound**	**Y**	**29**	**CHRY**	**3**		**97**	**C**
	21047589-16D	Gray Granular Material	N	50	ND			100	Q
PHA-B1115-4B	21047589-17A	Off-White Texture with Cream Paint	N	12	ND			100	C
	21047589-17B	Cream/Multicolored Paint	N	10	ND			100	
	21047589-17C	**Tan Compound**	**Y**	**70**	**CHRY**	**3**		**97**	**C**
	21047589-17D	Gray Granular Material	N	8	ND			100	Q
PHA-B1115-4C	21047589-18A	Off-White Texture with Cream Paint	N	10	ND			100	C
	21047589-18B	Cream/Multicolored Paint	N	9	ND			100	
	21047589-18C	**Tan Compound**	**Y**	**76**	**CHRY**	**3**		**97**	**C**
	21047589-18D	Gray Granular Material	N	5	ND			100	Q

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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City, State ZIP	Pueblo, CO 81003		Date Analyzed:	10/26/2021
Attn:	Joseph Cardenas		Date Reported:	10/26/2021
Client Project Name:	21-4584 (B) Building #11 / Pueblo Housing Authority		Project ID:	21047589

Test Requested: **3002, Asbestos in Bulk Samples**
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

General Notes

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NVLAP TESTING
NVLAP Lab Code 200860-0

Client Name	All-Phase Environmental Consultants, Inc.	Date Collected:	10/13/2021
Street Address	721 W. 9th St.	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003	Date Analyzed:	11/2/2021
Attn:	Joseph Cardenas	Date Reported:	11/2/2021
Client Project Name:	21-4584 (B) Building #11 / Pueblo Housing Authority	Project ID:	21047589

Test Requested: **3001, Asbestos Point Count in Bulk Samples (400/1000)**

Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials; EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Asbestos Detected	Asbestos Percentage	Point Count Method (400/1000)
Client	Lab Sample Number				
PHA-B1115-4A	**21047589-16C**	**Tan Compound**	**CHRY**	**2.5**	**400**
PHA-B1115-4B	**21047589-17C**	**POSITIVE STOP**			
PHA-B1115-4C	**21047589-18C**	**POSITIVE STOP**			

Piper-Lenore Murphy
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

AC = Actinolite
AM = Amosite
AN = Anthophyllite
CHRY = Chrysotile
CR = Crocidolite
TRM = Tremolite

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Client Name	All-Phase Environmental Consultants, Inc.	NVLAP TESTING NVLAP Lab Code 200860-0	Date Collected:	10/13/2021
Street Address	721 W. 9th St.		Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed:	11/2/2021
Attn:	Joseph Cardenas		Date Reported:	11/2/2021
Client Project Name:	21-4584 (B) Building #11 / Pueblo Housing Authority		Project ID:	21047589

Test Requested: **3001, Asbestos Point Count in Bulk Samples (400/1000)**
Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials; EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

General Notes

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City, State ZIP	Pueblo, CO 81003		Date Analyzed: 10/26/2021
Attn:	Joseph Cardenas	NVLAP Lab Code 200860-0	Date Reported: 10/26/2021
Client Project Name:	21-4584 (C) Building #11 / Pueblo Housing Authority		Project ID: 21047591

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1117-1A	21047591-1A	White Texture with White Paint	N	2	ND		10 TL	90	C
	21047591-1B	White Texture with White Paint	N	4	ND			100	C
	21047591-1C	White/Tan Drywall	N	94	ND		10 CELL	90	G
PHA-B1117-1B	21047591-2A	White Texture with White Paint	N	6	ND			100	C
	21047591-2B	White/Tan Drywall	N	94	ND		10 CELL	90	G
PHA-B1117-1C	21047591-3A	White Texture with White Paint	N	3	ND			100	C
	21047591-3B	White/Tan Drywall	N	97	ND		10 CELL	90	G
PHA-B1117-1D	21047591-4A	White Texture with White Paint	N	3	ND			100	C
	21047591-4B	White/Tan Drywall	N	97	ND		10 CELL	90	G
PHA-B1117-1E	21047591-5A	White Texture with White Paint	N	4	ND			100	C

Paul Knappe
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

AC = Actinolite	AH = Animal Hair	B = Binder	Q = Quartz
AM = Amosite	CELL = Cellulose	C = Calcite	T = Tar
AN = Anthophyllite	FG = Fibrous Glass	D = Diatoms	V = Vermiculite
CHRY = Chrysotile	MW = Mineral Wool	G = Gypsum	
CR = Crocidolite	OT = Other	M = Mica	
TRM = Tremolite	SYN = Synthetic	OR = Organic	
Tr = Trace	TL = Talc	OP = Opaques	
ND = None Detected	W = Wollastonite	P = Perlite	

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Certificate of Analysis

Client Name	All-Phase Environmental Consultants, Inc.		Date Collected: 10/13/2021
Street Address	721 W. 9th St.	NVLAP® TESTING	Date Received: 10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed: 10/26/2021
Attn:	Joseph Cardenas	NVLAP Lab Code 200860-0	Date Reported: 10/26/2021
Client Project Name:	21-4584 (C) Building #11 / Pueblo Housing Authority		Project ID: 21047591

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1117-1E	21047591-5B	White/Tan Drywall	N	96	ND		10 CELL	90	G
PHA-B1117-2A	21047591-6A	White Texture with White Paint	N	2	ND			100	C
	21047591-6B	White Compound with White Paint	N	8	ND			100	C
	21047591-6C	White Perlitic Plaster	Y	90	ND		Tr AH	100	P
PHA-B1117-2B	21047591-7A	White Texture with White Paint	N	2	ND		2 TL	98	C
	21047591-7B	White Texture with White Paint	N	3	ND			100	C
	21047591-7C	White Perlitic Plaster	Y	20	ND		Tr AH	100	P
	21047591-7D	White/Tan Drywall	N	75	ND		10 CELL	90	G
PHA-B1117-2C	21047591-8A	White Texture with White Paint	N	3	ND			100	C
	21047591-8B	White Compound with White Paint	N	7	ND			100	C

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Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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CHRY = Chrysotile	MW = Mineral Wool	G = Gypsum	
CR = Crocidolite	OT = Other	M = Mica	
TRM = Tremolite	SYN = Synthetic	OR = Organic	
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Attn:	Joseph Cardenas	NVLAP Lab Code 200860-0	Date Reported: 10/26/2021
Client Project Name:	21-4584 (C) Building #11 / Pueblo Housing Authority		Project ID: 21047591

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1117-2C	21047591-8C	White Perlitic Plaster	Y	20	ND		Tr AH	100	P
	21047591-8D	White/Tan Drywall	N	70	ND		10 CELL	90	G
PHA-B1117-2D	21047591-9A	White Texture with White Paint	N	5	ND			100	C
	21047591-9B	White Compound with White Paint	N	15	ND			100	C
	21047591-9C	White Perlitic Plaster	Y	80	ND		Tr AH	100	P
PHA-B1117-2E	21047591-10A	White Texture with White Paint	N	3	ND			100	C
	21047591-10B	White Compound with White Paint	N	10	ND			100	C
	21047591-10C	White Perlitic Plaster	Y	87	ND		Tr AH	100	P
PHA-B1117-3A	21047591-11A	Blue Resinous Material	Y	2	ND			100	C
	21047591-11B	White Plaster with Cream/Multicolored Paint	N	15	ND			100	G

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Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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CR = Crocidolite
TRM = Tremolite
Tr = Trace
ND = None Detected

AH = Animal Hair
CELL = Cellulose
FG = Fibrous Glass
MW = Mineral Wool
OT = Other
SYN = Synthetic
TL = Talc
W = Wollastonite

B = Binder
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D = Diatoms
G = Gypsum
M = Mica
OR = Organic
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P = Perlite

Q = Quartz
T = Tar
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City, State ZIP	Pueblo, CO 81003	Date Analyzed:	10/26/2021
Attn:	Joseph Cardenas	Date Reported:	10/26/2021
Client Project Name:	21-4584 (C) Building #11 / Pueblo Housing Authority	Project ID:	21047591

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1117-3A	21047591-11C	Pink Perlitic Granular Plaster	N	83	ND		2 AH	98	P,Q
PHA-B1117-3B	21047591-12A	Blue Resinous Material	Y	2	ND			100	C
	21047591-12B	White Plaster with Cream/Multicolored Paint	N	10	ND			100	G
	21047591-12C	Pink Perlitic Granular Plaster	N	88	ND		2 AH	98	P,Q
PHA-B1117-3C	21047591-13A	Blue Resinous Material	Y	2	ND			100	C
	21047591-13B	White Plaster with Cream/Multicolored Paint	N	8	ND			100	G
	21047591-13C	Pink Perlitic Granular Plaster	N	90	ND		2 AH	98	P,Q
PHA-B1117-3D	21047591-14A	White Plaster with Cream/Multicolored Paint	N	10	ND			100	G
	21047591-14B	Pink Perlitic Granular Plaster	N	90	ND		2 AH	98	P,Q
PHA-B1117-3E	21047591-15A	White Plaster with Cream/Multicolored Paint	N	11	ND			100	G

Paul Knappe
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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Tr = Trace
ND = None Detected

AH = Animal Hair
CELL = Cellulose
FG = Fibrous Glass
MW = Mineral Wool
OT = Other
SYN = Synthetic
TL = Talc
W = Wollastonite

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City, State ZIP	Pueblo, CO 81003		Date Analyzed: 10/26/2021
Attn:	Joseph Cardenas	NVLAP Lab Code 200860-0	Date Reported: 10/26/2021
Client Project Name:	21-4584 (C) Building #11 / Pueblo Housing Authority		Project ID: 21047591

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1117-3E	21047591-15B	Pink Perlitic Granular Plaster	N	89	ND		2 AH	98	P,Q
PHA-B1117-4A	21047591-16A	Off-White Texture with Cream Paint	N	8	ND			100	C
	21047591-16B	Cream Paint	Y	6	ND			100	
	21047591-16C	**Tan Compound**	**Y**	**7**	**CHRY**	**3**		**97**	**C**
	21047591-16D	Gray Granular Material	N	79	ND			100	
PHA-B1117-4B	21047591-17A	Off-White Texture with Cream Paint	N	15	ND			100	C
	21047591-17B	Cream Paint	Y	10	ND			100	
	21047591-17C	**Tan Compound**	**Y**	**40**	**CHRY**	**3**		**97**	**C**
	21047591-17D	Gray Granular Material	N	35	ND			100	
PHA-B1117-4C	21047591-18A	Off-White Texture with Cream Paint	N	20	ND			100	C

Paul Knappe
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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Attn:	Joseph Cardenas		Date Reported: 10/26/2021
Client Project Name:	21-4584 (C) Building #11 / Pueblo Housing Authority		Project ID: 21047591

NVLAP TESTING
NVLAP Lab Code 200860-0

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1117-4C	21047591-18B	Cream Paint	Y	10	ND			100	
	21047591-18C	**Tan Compound**	**Y**	**65**	**CHRY**	**3**		**97**	**C**
	21047591-18D	Gray Granular Material	N	5	ND			100	

Paul Knappe
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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Street Address	721 W. 9th St.	NVLAP Lab Code 200860-0	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed:	10/26/2021
Attn:	Joseph Cardenas		Date Reported:	10/26/2021
Client Project Name:	21-4584 (C) Building #11 / Pueblo Housing Authority		Project ID:	21047591

Test Requested: **3002, Asbestos in Bulk Samples**
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

General Notes

- **ND** indicates no asbestos was detected; the method detection limit is 1 %.
- **Trace** or "< 1" indicates asbestos was identified in the sample, but the concentration is less than 1% and cannot be quantified without point counting.
- Samples identified as inhomogeneous (more than one layer) are separated into individual layers, and each layer is analyzed and reported separately.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.
- These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.
- Aerobiology does not guarantee the results of tape lifts, microvacs, wipe, and/or debris samples. Accurate analysis cannot be performed due to particle size, media used, and/or amount of material given. Analysis of these materials should be preformed by a TEM. ***A result of ND does not indicate that the sample area does not contain asbestos. It means the analyst could not identify asbestos in the specific sample for the reasons listed above.***

Notes Required by NVLAP

- This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
- This test report relates only to the items tested or calibrated.
- This report is not valid unless it bears the name of a NVLAP-approved signatory.
- Any reproduction of this document must include the entire document in order for the report to be valid.

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NVLAP Lab Code 200860-0

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Street Address	721 W. 9th St.	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003	Date Analyzed:	11/2/2021
Attn:	Joseph Cardenas	Date Reported:	11/2/2021
Client Project Name:	21-4584 (C) Building #11 / Pueblo Housing Authority	Project ID:	21047591

Test Requested: **3001, Asbestos Point Count in Bulk Samples (400/1000)**

Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials; EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Asbestos Detected	Asbestos Percentage	Point Count Method (400/1000)
Client	Lab Sample Number				
PHA-B1117-4A	**21047591-16C**	**Tan Compound**	**CHRY**	**2.75**	**400**
PHA-B1117-4B	**21047591-17C**	**POSITIVE STOP**			
PHA-B1117-4C	**21047591-18C**	**POSITIVE STOP**			

Piper-Lenore Murphy
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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CHRY = Chrysotile
CR = Crocidolite
TRM = Tremolite

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City, State ZIP	Pueblo, CO 81003	Date Analyzed:	10/26/2021
Attn:	Joseph Cardenas	Date Reported:	10/26/2021
Client Project Name:	21-4584 (D) Building #11 / Pueblo Housing Authority	Project ID:	21047592

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1119-1A	21047592-1A	White Texture with Cream/White Paint	N	14	ND			100	C
	21047592-1B	Pink/Tan Drywall	N	86	ND		15 CELL	85	G
PHA-B1119-1B	21047592-2A	White Texture with Cream/White Paint	N	10	ND			100	C
	21047592-2B	Pink/Tan Drywall	N	90	ND		15 CELL	85	G
PHA-B1119-1C	21047592-3A	White Texture with Cream/White Paint	N	12	ND			100	C
	21047592-3B	Pink/Tan Drywall	N	88	ND		15 CELL	85	G
PHA-B1119-1D	21047592-4A	White Texture with Cream/White Paint	N	10	ND			100	C
	21047592-4B	Pink/Tan Drywall	N	90	ND		15 CELL	85	G
PHA-B1119-1E	21047592-5A	White Texture with Cream/White Paint	N	10	ND			100	C
	21047592-5B	Pink/Tan Drywall	N	90	ND		15 CELL	85	G

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

AC = Actinolite	AH = Animal Hair	B = Binder	Q = Quartz
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CHRY = Chrysotile	MW = Mineral Wool	G = Gypsum	
CR = Crocidolite	OT = Other	M = Mica	
TRM = Tremolite	SYN = Synthetic	OR = Organic	
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ND = None Detected	W = Wollastonite	P = Perlite	

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City, State ZIP	Pueblo, CO 81003	Date Analyzed:	10/26/2021
Attn:	Joseph Cardenas	Date Reported:	10/26/2021
Client Project Name:	21-4584 (D) Building #11 / Pueblo Housing Authority	Project ID:	21047592

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1119-2A	21047592-6A	White Texture with Cream/White Paint	N	10	ND			100	C
	21047592-6B	White Plaster with Tan/Multicolored Paint	N	20	ND			100	G
	21047592-6C	Gray Perlitic Plaster	N	70	ND		2 AH	98	G
PHA-B1119-2B	21047592-7A	White Texture with Cream/White Paint	N	7	ND			100	C
	21047592-7B	White Plaster with Tan/Multicolored Paint	N	10	ND			100	G
	21047592-7C	Gray Perlitic Plaster	N	63	ND		2 AH	98	G
	21047592-7D	Off-White/Tan Drywall	N	20	ND		15 CELL	85	G
PHA-B1119-2C	21047592-8A	White Texture with Cream/White Paint	N	7	ND			100	C
	21047592-8B	White Plaster with Tan/Multicolored Paint	N	10	ND			100	G
	21047592-8C	Gray Perlitic Plaster	N	43	ND		2 AH	98	G

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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Attn:	Joseph Cardenas	NVLAP Lab Code 200860-0	Date Reported: 10/26/2021
Client Project Name:	21-4584 (D) Building #11 / Pueblo Housing Authority		Project ID: 21047592

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1119-2C	21047592-8D	Off-White/Tan Drywall	N	40	ND		15 CELL	85	G
PHA-B1119-2D	21047592-9A	White Texture with Cream/White Paint	N	8	ND			100	C
	21047592-9B	White Plaster with Tan/Multicolored Paint	N	15	ND			100	G
	21047592-9C	Gray Perlitic Plaster	N	77	ND		1 AH	99	G
PHA-B1119-2E	21047592-10A	White Texture with Cream/White Paint	N	8	ND			100	C
	21047592-10B	White Plaster with Tan/Multicolored Paint	N	12	ND			100	G
	21047592-10C	Gray Perlitic Plaster	N	80	ND		1 AH	99	G
PHA-B1119-3A	21047592-11A	White Plaster with Off-White/Multicolored Paint	N	50	ND			100	
	21047592-11B	Light Pink Perlitic Plaster	N	50	ND			100	G,P
PHA-B1119-3B	21047592-12A	White Plaster with Off-White/Multicolored Paint	N	38	ND			100	

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

AC = Actinolite	AH = Animal Hair	B = Binder	Q = Quartz
AM = Amosite	CELL = Cellulose	C = Calcite	T = Tar
AN = Anthophyllite	FG = Fibrous Glass	D = Diatoms	V = Vermiculite
CHRY = Chrysotile	MW = Mineral Wool	G = Gypsum	
CR = Crocidolite	OT = Other	M = Mica	
TRM = Tremolite	SYN = Synthetic	OR = Organic	
Tr = Trace	TL = Talc	OP = Opaques	
ND = None Detected	W = Wollastonite	P = Perlite	

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Certificate of Analysis

NVLAP TESTING
NVLAP Lab Code 200860-0

Client Name	All-Phase Environmental Consultants, Inc.	Date Collected:	10/13/2021
Street Address	721 W. 9th St.	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003	Date Analyzed:	10/26/2021
Attn:	Joseph Cardenas	Date Reported:	10/26/2021
Client Project Name:	21-4584 (D) Building #11 / Pueblo Housing Authority	Project ID:	21047592

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1119-3B	21047592-12B	Light Pink Perlitic Plaster	N	62	ND			100	G,P
PHA-B1119-3C	21047592-13A	White Plaster with Off-White/Multicolored Paint	N	40	ND			100	
	21047592-13B	Light Pink Perlitic Plaster	N	60	ND		Tr AH	100	G,P
PHA-B1119-3D	21047592-14A	White Plaster with Off-White/Multicolored Paint	N	15	ND			100	
	21047592-14B	Light Pink Perlitic Plaster	N	85	ND		Tr AH	100	G,P
PHA-B1119-3E	21047592-15A	White Plaster with Off-White/Multicolored Paint	N	10	ND			100	
	21047592-15B	Light Pink Perlitic Plaster	N	90	ND		Tr AH	100	G,P
PHA-B1119-4A	21047592-16A	White Texture with Off-White Paint	N	15	ND			100	C,M
	21047592-16B	Off-White Paint with White Texture	N	15	ND			100	C,M
	21047592-16C	Off-White/Multicolored Paint	N	15	ND			100	B

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Shannon Whitmore
Asbestos Lab Supervisor

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Client Name	All-Phase Environmental Consultants, Inc.		Date Collected: 10/13/2021
Street Address	721 W. 9th St.	NVLAP® TESTING	Date Received: 10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed: 10/26/2021
Attn:	Joseph Cardenas	NVLAP Lab Code 200860-0	Date Reported: 10/26/2021
Client Project Name:	21-4584 (D) Building #11 / Pueblo Housing Authority		Project ID: 21047592

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1119-4A	**21047592-16D**	**Off-White Compound**	**Y**	**45**	**CHRY**	**4**		**96**	**C,M**
	21047592-16E	Gray Granular Cementitious Material	N	10	ND			100	Q
PHA-B1119-4B	21047592-17A	Off-White Paint with White Texture	N	25	ND			100	C,M
	21047592-17B	Off-White/Multicolored Paint	N	20	ND			100	B
	21047592-17C	**Off-White Compound**	**Y**	**10**	**CHRY**	**4**		**96**	**C,M**
	21047592-17D	Gray Granular Cementitious Material	N	45	ND			100	Q
PHA-B1119-4C	21047592-18A	Off-White Paint with White Texture	N	100	ND			100	C,M
	21047592-18B	Off-White/Multicolored Paint	N	100	ND			100	B
	21047592-18C	**Off-White Compound**	**Y**	**100**	**CHRY**	**4**		**96**	**C,M**
	21047592-18D	Gray Granular Cementitious Material	N	100	ND			100	Q

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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CR = Crocidolite	OT = Other	M = Mica	
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Client Name	All-Phase Environmental Consultants, Inc.	NVLAP TESTING	Date Collected:	10/13/2021
Street Address	721 W. 9th St.	NVLAP Lab Code 200860-0	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed:	10/26/2021
Attn:	Joseph Cardenas		Date Reported:	10/26/2021
Client Project Name:	21-4584 (D) Building #11 / Pueblo Housing Authority		Project ID:	21047592

Test Requested: **3002, Asbestos in Bulk Samples**
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

General Notes

- **ND** indicates no asbestos was detected; the method detection limit is 1 %.
- **Trace** or "< 1" indicates asbestos was identified in the sample, but the concentration is less than 1% and cannot be quantified without point counting.
- Samples identified as inhomogeneous (more than one layer) are separated into individual layers, and each layer is analyzed and reported separately.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.
- These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.
- Aerobiology does not guarantee the results of tape lifts, microvacs, wipe, and/or debris samples. Accurate analysis cannot be performed due to particle size, media used, and/or amount of material given. Analysis of these materials should be preformed by a TEM. ***A result of ND does not indicate that the sample area does not contain asbestos. It means the analyst could not identify asbestos in the specific sample for the reasons listed above.***

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Client Name	All-Phase Environmental Consultants, Inc.	NVLAP TESTING NVLAP Lab Code 200860-0	Date Collected:	10/13/2021
Street Address	721 W. 9th St.		Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed:	11/2/2021
Attn:	Joseph Cardenas		Date Reported:	11/2/2021
Client Project Name:	21-4584 (C) Building #11 / Pueblo Housing Authority		Project ID:	21047591

Test Requested: **3001, Asbestos Point Count in Bulk Samples (400/1000)**
Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials; EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

General Notes

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- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the mineral grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.
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Street Address	721 W. 9th St.	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003	Date Analyzed:	10/27/2021
Attn:	Joseph Cardenas	Date Reported:	10/27/2021
Client Project Name:	21-4584 (E) Building #11 / Pueblo Housing Authority	Project ID:	21047594

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1121-1A	21047594-1A	Off-White Texture with Cream Paint	N	12	ND			100	C
	21047594-1B	Pink/Tan Drywall	N	88	ND		12 CELL	88	G
PHA-B1121-1B	21047594-2A	Off-White Texture with Cream Paint	N	11	ND			100	C
	21047594-2B	Pink/Tan Drywall	N	89	ND		12 CELL	88	G
PHA-B1121-1C	21047594-3A	Off-White Texture with Cream Paint	N	10	ND			100	C
	21047594-3B	Pink/Tan Drywall	N	90	ND		12 CELL	88	G
PHA-B1121-2A	21047594-4A	Off-White Texture with Cream Paint	N	18	ND			100	C
	21047594-4B	White Plaster with Off-White/Multicolored Paint	N	22	ND			100	G
	21047594-4C	Pink Perlitic Granular Plaster	N	60	ND		2 AH	98	P,Q
PHA-B1121-2B	21047594-5A	Off-White Texture with Cream Paint	N	25	ND			100	C

Piper-Lenore Murphy
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

AC = Actinolite	AH = Animal Hair	B = Binder	Q = Quartz
AM = Amosite	CELL = Cellulose	C = Calcite	T = Tar
AN = Anthophyllite	FG = Fibrous Glass	D = Diatoms	V = Vermiculite
CHRY = Chrysotile	MW = Mineral Wool	G = Gypsum	
CR = Crocidolite	OT = Other	M = Mica	
TRM = Tremolite	SYN = Synthetic	OR = Organic	
Tr = Trace	TL = Talc	OP = Opaques	
ND = None Detected	W = Wollastonite	P = Perlite	

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NVLAP Lab Code 200860-0

Client Name	All-Phase Environmental Consultants, Inc.	Date Collected:	10/13/2021
Street Address	721 W. 9th St.	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003	Date Analyzed:	10/27/2021
Attn:	Joseph Cardenas	Date Reported:	10/27/2021
Client Project Name:	21-4584 (E) Building #11 / Pueblo Housing Authority	Project ID:	21047594

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1121-2B	21047594-5B	White Plaster with Off-White/Multicolored Paint	N	30	ND			100	G
	21047594-5C	Pink Perlitic Granular Plaster	N	45	ND		2 AH	98	P,Q
PHA-B1121-2C	21047594-6A	Off-White Texture with Cream Paint	N	10	ND			100	C
	21047594-6B	White Plaster with Off-White/Multicolored Paint	N	12	ND			100	G
	21047594-6C	Pink Perlitic Granular Plaster	N	78	ND		2 AH	98	P,Q
PHA-B1121-3A	21047594-7A	White Plaster with Cream/Multicolored Paint	N	15	ND			100	G
	21047594-7B	Pink Perlitic Granular Plaster	N	85	ND		2 AH	98	P,Q
PHA-B1121-3B	21047594-8A	White Plaster with Cream/Multicolored Paint	N	20	ND			100	G
	21047594-8B	Pink Perlitic Granular Plaster	N	80	ND		2 AH	98	P,Q
PHA-B1121-3C	21047594-9A	White Plaster with Cream/Multicolored Paint	N	22	ND			100	G
	21047594-9B	Pink Perlitic Granular Plaster	N	78	ND		2 AH	98	P,Q

Piper-Lenore Murphy
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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CHRY = Chrysotile
CR = Crocidolite
TRM = Tremolite
Tr = Trace
ND = None Detected

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CELL = Cellulose
FG = Fibrous Glass
MW = Mineral Wool
OT = Other
SYN = Synthetic
TL = Talc
W = Wollastonite

B = Binder
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Q = Quartz
T = Tar
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Client Name	All-Phase Environmental Consultants, Inc.	NVLAP TESTING	Date Collected:	10/13/2021
Street Address	721 W. 9th St.	NVLAP Lab Code 200860-0	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed:	10/27/2021
Attn:	Joseph Cardenas		Date Reported:	10/27/2021
Client Project Name:	21-4584 (E) Building #11 / Pueblo Housing Authority		Project ID:	21047594

Test Requested: **3002, Asbestos in Bulk Samples**
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

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Street Address	721 W. 9th St.	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003	Date Analyzed:	10/27/2021
Attn:	Joseph Cardenas	Date Reported:	10/27/2021
Client Project Name:	21-458 (F) Building #11 / Pueblo Housing Authority	Project ID:	21047596

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1125-1A	21047596-1A	White Texture with Off-White Paint	N	10	ND			100	C
	21047596-1B	Pink/Tan Drywall	N	90	ND		10 CELL	80	G
PHA-B1125-1B	21047596-2A	White Texture with Off-White Paint	N	30	ND			100	C
	21047596-2B	Pink/Tan Drywall	N	70	ND		20 CELL	80	G
PHA-B1125-1C	21047596-3A	Off-White Paint with White Texture	N	10	ND			100	C
	21047596-3B	Pink/Tan Drywall	N	90	ND		15 CELL	85	G
PHA-B1125-1D	21047596-4A	White Texture with Off-White Paint	N	7	ND			100	C
	21047596-4B	Pink/Tan Drywall	N	93	ND		15 CELL	85	G
PHA-B1125-1E	21047596-5A	White Texture with Off-White Paint	N	10	ND			100	C
	21047596-5B	Pink/Tan Drywall	N	90	ND		10 CELL	90	G

Michael Scales
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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AM = Amosite	CELL = Cellulose	C = Calcite	T = Tar
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TRM = Tremolite	SYN = Synthetic	OR = Organic	
Tr = Trace	TL = Talc	OP = Opaques	
ND = None Detected	W = Wollastonite	P = Perlite	

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Street Address	721 W. 9th St.	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003	Date Analyzed:	10/27/2021
Attn:	Joseph Cardenas	Date Reported:	10/27/2021
Client Project Name:	21-458 (F) Building #11 / Pueblo Housing Authority	Project ID:	21047596

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1125-2A	21047596-6A	Off-White Paint with White Texture	N	8	ND			100	C
	21047596-6B	White Plaster with Off-White/Multicolored Paint	N	22	ND			100	
	21047596-6C	Light Pink Perlitic Plaster	Y	70	ND		Tr AH	100	G,P
PHA-B1125-2B	21047596-7A	Off-White Paint with White Texture	N	2	ND			100	C
	21047596-7B	White Plaster with Off-White/Multicolored Paint	N	3	ND			100	
	21047596-7C	Light Pink Perlitic Plaster	Y	95	ND		Tr AH	100	G,P
PHA-B1125-2C	21047596-8A	Off-White Paint with White Texture	N	3	ND			100	C
	21047596-8B	White Plaster with Off-White/Multicolored Paint	N	12	ND			100	
	21047596-8C	Light Pink Perlitic Plaster	Y	85	ND		Tr AH	100	G,P
PHA-B1125-2D	21047596-9A	Off-White Paint with White Texture	N	7	ND			100	C

Michael Scales
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

AC = Actinolite	AH = Animal Hair	B = Binder	Q = Quartz
AM = Amosite	CELL = Cellulose	C = Calcite	T = Tar
AN = Anthophyllite	FG = Fibrous Glass	D = Diatoms	V = Vermiculite
CHRY = Chrysotile	MW = Mineral Wool	G = Gypsum	
CR = Crocidolite	OT = Other	M = Mica	
TRM = Tremolite	SYN = Synthetic	OR = Organic	
Tr = Trace	TL = Talc	OP = Opaques	
ND = None Detected	W = Wollastonite	P = Perlite	

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Certificate of Analysis

NVLAP TESTING
NVLAP Lab Code 200860-0

Client Name	All-Phase Environmental Consultants, Inc.	Date Collected:	10/13/2021
Street Address	721 W. 9th St.	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003	Date Analyzed:	10/27/2021
Attn:	Joseph Cardenas	Date Reported:	10/27/2021
Client Project Name:	21-458 (F) Building #11 / Pueblo Housing Authority	Project ID:	21047596

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1125-2D	21047596-9B	White Plaster with Off-White/Multicolored Paint	N	18	ND			100	
	21047596-9C	Light Pink Perlitic Plaster	Y	75	ND		Tr AH	100	G,P
PHA-B1125-2E	21047596-10A	White Texture with Off-White Paint	N	40	ND			100	C
	21047596-10B	White Plaster with Off-White Paint	N	30	ND			100	
	21047596-10C	Light Pink Perlitic Plaster	Y	30	ND		Tr AN	100	G,P
PHA-B1125-3A	21047596-11A	White Compound with White Paint	N	25	ND			100	C
	21047596-11B	White Perlitic Plaster	Y	75	ND		Tr AH	100	P
PHA-B1125-3B	21047596-12A	White Compound with Tan Paint	N	7	ND			100	C
	21047596-12B	White Perlitic Plaster	Y	93	ND		Tr AH	100	P
PHA-B1125-3C	21047596-13A	White Compound with White Paint	N	3	ND			100	C

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Shannon Whitmore
Asbestos Lab Supervisor

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City, State ZIP	Pueblo, CO 81003	Date Analyzed:	10/27/2021
Attn:	Joseph Cardenas	Date Reported:	10/27/2021
Client Project Name:	21-458 (F) Building #11 / Pueblo Housing Authority	Project ID:	21047596

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1125-3C	21047596-13B	White Perlitic Plaster	Y	97	ND		Tr AH	100	P
PHA-B1125-3D	21047596-14A	White Compound with Tan Paint	N	4	ND			100	C
	21047596-14B	White Perlitic Plaster	Y	96	ND		Tr AH	100	P
PHA-B1125-3E	21047596-15A	White Compound with Tan Paint	N	5	ND			100	C
	21047596-15B	White Perlitic Plaster	Y	95	ND		Tr AH	100	P
PHA-B1125-4A	21047596-16A	White Texture with White Paint	N	5	ND			100	C
	21047596-16B	**Tan Texture with White Paint**	**N**	**90**	**CHRY**	**3**		**97**	**C**
	21047596-16C	Gray Granular Plaster	Y	5	ND			100	Q
PHA-B1125-4B	21047596-17A	White Texture with White Paint	N	15	ND			100	C
	21047596-17B	**Tan Texture with White Paint**	**N**	**80**	**CHRY**	**3**		**97**	**C**

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Shannon Whitmore
Asbestos Lab Supervisor

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Attn:	Joseph Cardenas	Date Reported:	10/27/2021
Client Project Name:	21-458 (F) Building #11 / Pueblo Housing Authority	Project ID:	21047596

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1125-4B	21047596-17C	Gray Granular Plaster	Y	5	ND			100	Q
PHA-B1125-4C	21047596-18A	White Texture with White Paint	N	20	ND			100	C
	21047596-18B	**Tan Texture with White Paint**	**N**	**60**	**CHRY**	**3**		**97**	**C**
	21047596-18C	Gray Granular Plaster	Y	20	ND			100	Q

Michael Scales
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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Street Address	721 W. 9th St.	NVLAP Lab Code 200860-0	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed:	10/27/2021
Attn:	Joseph Cardenas		Date Reported:	10/27/2021
Client Project Name:	21-458 (F) Building #11 / Pueblo Housing Authority		Project ID:	21047596

Test Requested: **3002, Asbestos in Bulk Samples**
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

General Notes

- **ND** indicates no asbestos was detected; the method detection limit is 1 %.
- **Trace** or "< 1" indicates asbestos was identified in the sample, but the concentration is less than 1% and cannot be quantified without point counting.
- Samples identified as inhomogeneous (more than one layer) are separated into individual layers, and each layer is analyzed and reported separately.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.
- These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.
- Aerobiology does not guarantee the results of tape lifts, microvacs, wipe, and/or debris samples. Accurate analysis cannot be performed due to particle size, media used, and/or amount of material given. Analysis of these materials should be preformed by a TEM. ***A result of ND does not indicate that the sample area does not contain asbestos. It means the analyst could not identify asbestos in the specific sample for the reasons listed above.***

Notes Required by NVLAP

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NVLAP Lab Code 200860-0

Client Name	All-Phase Environmental Consultants, Inc.	Date Collected:	10/13/2021
Street Address	721 W. 9th St.	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003	Date Analyzed:	11/2/2021
Attn:	Joseph Cardenas	Date Reported:	11/2/2021
Client Project Name:	21-4584 (F) Building #11 / Pueblo Housing Authority	Project ID:	21047596

Test Requested: **3001, Asbestos Point Count in Bulk Samples (400/1000)**

Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials; EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Asbestos Detected	Asbestos Percentage	Point Count Method (400/1000)
Client	Lab Sample Number				
PHA-B1125-4A	**21047596-16B**	**Tan Texture with White Paint**	**CHRY**	**2.25**	**400**
PHA-B1125-4B	**21047596-17B**	**POSITIVE STOP**			
PHA-B1125-4C	**21047596-18B**	**POSITIVE STOP**			

Paul Knappe
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

AC = Actinolite
AM = Amosite
AN = Anthophyllite
CHRY = Chrysotile
CR = Crocidolite
TRM = Tremolite

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Client Name	All-Phase Environmental Consultants, Inc.	NVLAP TESTING NVLAP Lab Code 200860-0	Date Collected:	10/13/2021
Street Address	721 W. 9th St.		Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed:	11/2/2021
Attn:	Joseph Cardenas		Date Reported:	11/2/2021
Client Project Name:	21-4584 (F) Building #11 / Pueblo Housing Authority		Project ID:	21047596

Test Requested: **3001, Asbestos Point Count in Bulk Samples (400/1000)**
Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials; EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

General Notes

- **ND** indicates no asbestos was detected; the method detection limit is 1 %.
- **Trace** or "< 1" indicates asbestos was identified in the sample, but the concentration is less than 1% and cannot be quantified without point counting.
- Samples identified as inhomogeneous (more than one layer) are separated into individual layers, and each layer is analyzed and reported separately.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the mineral grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
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Street Address	721 W. 9th St.	NVLAP® TESTING	Date Received: 10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed: 10/27/2021
Attn:	Joseph Cardenas	NVLAP Lab Code 200860-0	Date Reported: 10/27/2021
Client Project Name:	21-4584 (G) Building #11 / Pueblo Housing Authority		Project ID: 21047597

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B11275-1A	21047597-1A	White Texture with Cream/White Paint	N	12	ND			100	C
	21047597-1B	Pink/Tan Drywall	N	88	ND		15 CELL	85	G
PHA-B1127-1B	21047597-2A	White Texture with Cream/White Paint	N	10	ND			100	C
	21047597-2B	Pink/Tan Drywall	N	90	ND		15 CELL	85	G
PHA-B1127-1C	21047597-3A	White Texture with Cream/White Paint	N	10	ND			100	C
	21047597-3B	Pink/Tan Drywall	N	90	ND		15 CELL	85	G
PHA-B1127-1D	21047597-4A	White Texture with Cream/White Paint	N	10	ND			100	C
	21047597-4B	Pink/Tan Drywall	N	90	ND		15 CELL	85	G
PHA-B1127-1E	21047597-5A	White Texture with Cream/White Paint	N	10	ND			100	C
	21047597-5B	Pink/Tan Drywall	N	90	ND		15 CELL	85	G

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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Attn:	Joseph Cardenas	NVLAP Lab Code 200860-0	Date Reported: 10/27/2021
Client Project Name:	21-4584 (G) Building #11 / Pueblo Housing Authority		Project ID: 21047597

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1127-2A	21047597-6A	White Texture with Cream/White Paint	N	12	ND			100	C
	21047597-6B	White Texture with Cream Paint	N	10	ND			100	C
	21047597-6C	White Paint	Y	2	ND			100	
	21047597-6D	**Off-White Texture**	**Y**	**4**	**CHRY**	**2**		**98**	**G**
	21047597-6E	White Plaster with Tan Paint	N	25	ND			100	G
	21047597-6F	Gray Perlitic Plaster	N	47	ND		1 AH	99	G
PHA-B1127-2B	21047597-7A	White Texture with Cream/White Paint	N	7	ND			100	C
	21047597-7B	White Plaster with White/Tan Paint	N	15	ND			100	G
	21047597-7C	Gray Perlitic Plaster	N	78	ND		1 AH	99	G
PHA-B1127-2C	21047597-8A	White Texture with Cream/White Paint	N	8	ND			100	C

Thomas Harbour
Laboratory Analyst

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Asbestos Lab Supervisor

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Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1127-2C	21047597-8B	White Texture with White Paint	N	6	ND			100	C
	21047597-8C	White Plaster with Tan Paint	N	20	ND			100	G
	21047597-8D	Gray Perlitic Plaster	N	66	ND		1 AH	99	G
PHA-B1127-2D	21047597-9A	White Texture with Cream/White Paint	N	8	ND			100	C
	21047597-9B	White Plaster with White/Multicolored Paint	N	15	ND			100	G
	21047597-9C	Gray Perlitic Plaster	N	77	ND		1 AH	99	G
PHA-B1127-2E	21047597-10A	White Texture with Cream/White Paint	N	8	ND			100	C
	21047597-10B	White Plaster with White/Multicolored Paint	N	20	ND			100	G
	21047597-10C	Gray Perlitic Plaster	N	72	ND		1 AH	99	G
PHA-B1127-3A	21047597-11A	White Plaster with Cream/Multicolored Paint	N	22	ND			100	G

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1127-3A	21047597-11B	Pink Perlitic Granular Plaster	N	78	ND		2 AH	98	P,Q
PHA-B1127-3B	21047597-12A	White Foam	Y	5	ND			100	
	21047597-12B	White Plaster with Cream/Multicolored Paint	N	15	ND			100	G
	21047597-12C	Pink Perlitic Granular Plaster	N	80	ND		2 AH	98	P,Q
PHA-B1127-3C	21047597-13A	White Plaster with Cream/Multicolored Paint	N	18	ND			100	G
	21047597-13B	Pink Perlitic Granular Plaster	N	82	ND		2 AH	98	P,Q
PHA-B1127-3D	21047597-14A	White Plaster with Cream/Multicolored Paint	N	25	ND			100	G
	21047597-14B	Pink Perlitic Granular Plaster	N	75	ND		2 AH	98	P,Q
PHA-B1127-3E	21047597-15A	White Plaster with Cream/Multicolored Paint	N	14	ND			100	G
	21047597-15B	Pink Perlitic Granular Plaster	N	86	ND		2 AH	98	P,Q

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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CHRY = Chrysotile
CR = Crocidolite
TRM = Tremolite
Tr = Trace
ND = None Detected
AH = Animal Hair
CELL = Cellulose
FG = Fibrous Glass
MW = Mineral Wool
OT = Other
SYN = Synthetic
TL = Talc
W = Wollastonite
B = Binder
C = Calcite
D = Diatoms
G = Gypsum
M = Mica
OR = Organic
OP = Opaques
P = Perlite
Q = Quartz
T = Tar
V = Vermiculite

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Certificate of Analysis

Client Name	All-Phase Environmental Consultants, Inc.		Date Collected: 10/13/2021
Street Address	721 W. 9th St.		Date Received: 10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed: 10/27/2021
Attn:	Joseph Cardenas		Date Reported: 10/27/2021
Client Project Name:	21-4584 (G) Building #11 / Pueblo Housing Authority		Project ID: 21047597

NVLAP TESTING
NVLAP Lab Code 200860-0

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1127-4A	21047597-16A	Off-White Texture with Cream Paint	N	10	ND			100	C
	21047597-16B	Off-White Paint	Y	5	ND			100	
	21047597-16C	**Tan Compound**	**Y**	**10**	**CHRY**	**3**		**97**	**C**
	21047597-16D	Gray Granular Material	N	75	ND			100	
PHA-B1127-4B	21047597-17A	Off-White Texture with Cream Paint	N	15	ND			100	C
	21047597-17B	Off-White Paint	Y	10	ND			100	
	21047597-17C	**Tan Compound**	**Y**	**25**	**CHRY**	**3**		**97**	**C**
	21047597-17D	Gray Granular Material	N	50	ND			100	
PHA-B1127-4C	21047597-18A	Off-White Texture with Cream Paint	N	10	ND			100	C
	21047597-18B	Off-White Paint	Y	5	ND			100	

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Client Name	All-Phase Environmental Consultants, Inc.		Date Collected: 10/13/2021
Street Address	721 W. 9th St.	NVLAP® TESTING	Date Received: 10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed: 10/27/2021
Attn:	Joseph Cardenas	NVLAP Lab Code 200860-0	Date Reported: 10/27/2021
Client Project Name:	21-4584 (G) Building #11 / Pueblo Housing Authority		Project ID: 21047597

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1127-4C	**21047597-18C**	**Tan Compound**	**Y**	**20**	**CHRY**	**3**		**97**	**C**
	21047597-18D	Gray Granular Material	N	65	ND			100	

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City, State ZIP	Pueblo, CO 81003		Date Analyzed:	10/27/2021
Attn:	Joseph Cardenas		Date Reported:	10/27/2021
Client Project Name:	21-4584 (G) Building #11 / Pueblo Housing Authority		Project ID:	21047597

Test Requested: **3002, Asbestos in Bulk Samples**
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

General Notes

- **ND** indicates no asbestos was detected; the method detection limit is 1 %.
- **Trace** or "< 1" indicates asbestos was identified in the sample, but the concentration is less than 1% and cannot be quantified without point counting.
- Samples identified as inhomogeneous (more than one layer) are separated into individual layers, and each layer is analyzed and reported separately.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.
- These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.
- Aerobiology does not guarantee the results of tape lifts, microvacs, wipe, and/or debris samples. Accurate analysis cannot be performed due to particle size, media used, and/or amount of material given. Analysis of these materials should be preformed by a TEM. ***A result of ND does not indicate that the sample area does not contain asbestos. It means the analyst could not identify asbestos in the specific sample for the reasons listed above.***

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Street Address	721 W. 9th St.	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003	Date Analyzed:	11/2/2021
Attn:	Joseph Cardenas	Date Reported:	11/2/2021
Client Project Name:	21-4584 (G) Building #11 / Pueblo Housing Authority	Project ID:	21047597

Test Requested: **3001, Asbestos Point Count in Bulk Samples (400/1000)**

Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials; EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Asbestos Detected	Asbestos Percentage	Point Count Method (400/1000)
Client	Lab Sample Number				
PHA-B1127-2A	**21047597-6D**	**Off-White Texture**	**CHRY**	**0.5**	**400**
PHA-B1127-4A	**21047597-16C**	**Tan Compound**	**CHRY**	**2.5**	**400**
PHA-B1127-4B	**21047597-17C**	**POSITIVE STOP**			
PHA-B1127-4C	**21047597-18C**	**POSITIVE STOP**			

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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TRM = Tremolite

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Client Name	All-Phase Environmental Consultants, Inc.	NVLAP TESTING NVLAP Lab Code 200860-0	Date Collected:	10/13/2021
Street Address	721 W. 9th St.		Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed:	11/2/2021
Attn:	Joseph Cardenas		Date Reported:	11/2/2021
Client Project Name:	21-4584 (G) Building #11 / Pueblo Housing Authority		Project ID:	21047597

Test Requested: **3001, Asbestos Point Count in Bulk Samples (400/1000)**
Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials; EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

General Notes

- **ND** indicates no asbestos was detected; the method detection limit is 1 %.
- **Trace** or "< 1" indicates asbestos was identified in the sample, but the concentration is less than 1% and cannot be quantified without point counting.
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- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the mineral grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.
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Attn:	Joseph Cardenas	Date Reported:	10/27/2021
Client Project Name:	21-4584 Building #11 / Pueblo Housing Authority	Project ID:	21047598

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1129-1A	21047598-1A	White Texture with White Paint	N	5	ND			100	C
	21047598-1B	White/Tan Drywall	N	95	ND		10 CELL	90	G
PHA-B1129-1B	21047598-2A	White Texture with White Paint	N	4	ND			100	C
	21047598-2B	White/Tan Drywall	N	96	ND		10 CELL	90	G
PHA-B1129-1C	21047598-3A	White Texture with White Paint	N	4	ND			100	C
	21047598-3B	White/Tan Drywall	N	96	ND		10 CELL	90	G
PHA-B1129-1D	21047598-4A	White Texture with White Paint	N	7	ND			100	C
	21047598-4B	Yellow Mesh	Y	3	ND		99 FG	100	
	21047598-4C	White/Tan Drywall	N	90	ND		10 CELL	90	G
PHA-B1129-1E	21047598-5A	White Texture with White Paint	N	3	ND			100	C

Paul Knappe
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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Attn:	Joseph Cardenas	NVLAP TESTING NVLAP Lab Code 200860-0	Date Reported: 10/27/2021
Client Project Name:	21-4584 Building #11 / Pueblo Housing Authority		Project ID: 21047598

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Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1129-1E	21047598-5B	White/Tan Drywall	N	97	ND		10 CELL	90	G
PHA-B1129-2A	21047598-6A	White Texture with White Paint	N	5	ND			100	C
	21047598-6B	White Compound with White Paint	N	20	ND			100	C
	21047598-6C	White Perlitic Plaster	Y	75	ND		Tr AH	100	P
PHA-B1129-2B	21047598-7A	White Texture with White Paint	N	3	ND			100	C
	21047598-7B	**White Texture with White Paint**	**N**	**2**	**CHRY**	**2**		**98**	**C**
	21047598-7C	White Compound with White Paint	N	10	ND			100	C
	21047598-7D	White Perlitic Plaster	Y	83	ND		Tr AH	100	P
	21047598-7E	Brown Fibrous Material	Y	2	ND		99 CELL	1	
PHA-B1129-2C	21047598-8A	White Texture with White Paint	N	5	ND			100	C

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Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1129-2C	21047598-8B	White Compound with White Paint	N	5	ND			100	C
	21047598-8C	White Perlitic Plaster	Y	90	ND		Tr AH	100	P
PHA-B1129-2D	21047598-9A	White Texture with White Paint	N	2	ND			100	C
	21047598-9B	White Texture with White Paint	N	2	ND			100	C
	21047598-9C	White Compound with White Paint	N	8	ND			100	C
	21047598-9D	White Perlitic Plaster	Y	88	ND		Tr AH	100	P
PHA-B1129-2E	21047598-10A	White Texture with White Paint	N	5	ND			100	C
	21047598-10B	White Compound with White Paint	N	5	ND			100	C
	21047598-10C	White Perlitic Plaster	Y	90	ND		Tr AH	100	P
PHA-B1129-3A	21047598-11A	White Foam	Y	Tr	ND			100	

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Client	Lab Sample Number								
PHA-B1129-3A	21047598-11B	Light Gray/Multicolored Paint	N	2	ND			100	
	21047598-11C	White Plaster	Y	15	ND			100	G
	21047598-11D	Pink Perlitic Plaster	N	83	ND		Tr AH,CELL	100	G,P
	21047598-11E	Brown Paper	Y	Tr	ND		95 CELL	5	
PHA-B1129-3B	21047598-12A	Light Gray/Multicolored Paint	N	2	ND			100	
	21047598-12B	White Plaster	Y	10	ND			100	G
	21047598-12C	Pink Perlitic Plaster	N	88	ND		Tr AH,CELL	100	G,P
PHA-B1129-3C	21047598-13A	Light Gray/Multicolored Paint	N	2	ND			100	
	21047598-13B	White Plaster	Y	10	ND			100	G
	21047598-13C	Pink Perlitic Plaster	N	88	ND		Tr AH,CELL	100	G,P

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Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1129-3D	21047598-14A	Light Gray/Multicolored Paint	N	1	ND			100	
	21047598-14B	White Plaster	Y	7	ND			100	G
	21047598-14C	Pink Perlitic Plaster	N	92	ND		Tr AH,CELL	100	G,P
PHA-B1129-3E	21047598-15A	Light Gray/Multicolored Paint	N	1	ND			100	
	21047598-15B	White Plaster	Y	7	ND			100	G
	21047598-15C	Pink Perlitic Plaster	N	92	ND		Tr AH,CELL	100	G,P
PHA-B1129-4A	21047598-16A	Light Gray Paint with White Texture	N	30	ND			100	C
	21047598-16B	White/Multicolored Paint	N	10	ND			100	
	21047598-16C	**Tan Texture**	**Y**	**58**	**CHRY**	**3**		**97**	**C**
	21047598-16D	Gray Granular Material	N	2	ND			100	Q

Paul Knappe
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

AC = Actinolite
AM = Amosite
AN = Anthophyllite
CHRY = Chrysotile
CR = Crocidolite
TRM = Tremolite
Tr = Trace
ND = None Detected

AH = Animal Hair
CELL = Cellulose
FG = Fibrous Glass
MW = Mineral Wool
OT = Other
SYN = Synthetic
TL = Talc
W = Wollastonite

B = Binder
C = Calcite
D = Diatoms
G = Gypsum
M = Mica
OR = Organic
OP = Opaques
P = Perlite

Q = Quartz
T = Tar
V = Vermiculite

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Certificate of Analysis

Client Name	All-Phase Environmental Consultants, Inc.		Date Collected: 10/13/2021
Street Address	721 W. 9th St.	NVLAP® TESTING	Date Received: 10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed: 10/27/2021
Attn:	Joseph Cardenas	NVLAP Lab Code 200860-0	Date Reported: 10/27/2021
Client Project Name:	21-4584 Building #11 / Pueblo Housing Authority		Project ID: 21047598

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1129-4B	21047598-17A	Light Gray Paint with White Texture	N	58	ND			100	C
	21047598-17B	White/Multicolored Paint	N	5	ND			100	
	21047598-17C	**Tan Texture**	**Y**	**35**	**CHRY**	**3**		**97**	**C**
	21047598-17D	Gray Granular Material	N	2	ND			100	Q
PHA-B1129-4C	21047598-18A	Light Gray Paint with White Texture	N	45	ND			100	C
	21047598-18B	White/Multicolored Paint	N	5	ND			100	
	21047598-18C	**Tan Texture**	**Y**	**40**	**CHRY**	**3**		**97**	**C**
	21047598-18D	Gray Granular Material	N	10	ND			100	Q

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CR = Crocidolite	OT = Other	M = Mica	
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City, State ZIP	Pueblo, CO 81003		Date Analyzed:	10/27/2021
Attn:	Joseph Cardenas		Date Reported:	10/27/2021
Client Project Name:	21-4584 Building #11 / Pueblo Housing Authority		Project ID:	21047598

Test Requested: **3002, Asbestos in Bulk Samples**
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

General Notes

- **ND** indicates no asbestos was detected; the method detection limit is 1 %.
- **Trace** or "< 1" indicates asbestos was identified in the sample, but the concentration is less than 1% and cannot be quantified without point counting.
- Samples identified as inhomogeneous (more than one layer) are separated into individual layers, and each layer is analyzed and reported separately.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.
- These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.
- Aerobiology does not guarantee the results of tape lifts, microvacs, wipe, and/or debris samples. Accurate analysis cannot be performed due to particle size, media used, and/or amount of material given. Analysis of these materials should be preformed by a TEM. ***A result of ND does not indicate that the sample area does not contain asbestos. It means the analyst could not identify asbestos in the specific sample for the reasons listed above.***

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NVLAP TESTING
NVLAP Lab Code 200860-0

Client Name	All-Phase Environmental Consultants, Inc.	Date Collected:	10/13/2021
Street Address	721 W. 9th St.	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003	Date Analyzed:	11/2/2021
Attn:	Joseph Cardenas	Date Reported:	11/2/2021
Client Project Name:	21-4584 Building #11 / Pueblo Housing Authority	Project ID:	21047598

Test Requested: **3001, Asbestos Point Count in Bulk Samples (400/1000)**

Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials; EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Asbestos Detected	Asbestos Percentage	Point Count Method (400/1000)
Client	Lab Sample Number				
PHA-B1129-2B	**21047598-7B**	**White Texture with White Paint**	**CHRY**	**1**	**400**
PHA-B1129-4A	**21047598-16C**	**Tan Texture**	**CHRY**	**1.5**	**400**
PHA-B1129-4B	**21047598-17C**	**POSITIVE STOP**			
PHA-B1129-4C	**21047598-18C**	**POSITIVE STOP**			

Paul Knappe
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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TRM = Tremolite

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Client Name	All-Phase Environmental Consultants, Inc.	NVLAP TESTING NVLAP Lab Code 200860-0	Date Collected:	10/13/2021
Street Address	721 W. 9th St.		Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed:	11/2/2021
Attn:	Joseph Cardenas		Date Reported:	11/2/2021
Client Project Name:	21-4584 Building #11 / Pueblo Housing Authority		Project ID:	21047598

Test Requested: **3001, Asbestos Point Count in Bulk Samples (400/1000)**
Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials; EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

General Notes

- **ND** indicates no asbestos was detected; the method detection limit is 1 %.
- **Trace** or "< 1" indicates asbestos was identified in the sample, but the concentration is less than 1% and cannot be quantified without point counting.
- Samples identified as inhomogeneous (more than one layer) are separated into individual layers, and each layer is analyzed and reported separately.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the mineral grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.
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Street Address	721 W. 9th St.	NVLAP® TESTING	Date Received: 10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed: 10/26/2021
Attn:	Joseph Cardenas	NVLAP Lab Code 200860-0	Date Reported: 10/26/2021
Client Project Name:	21-4584 (E) Building #11 / Pueblo Housing Authority		Project ID: 21047593

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1123-1A	21047593-1A	White Texture with Cream/White Paint	N	10	ND			100	C
	21047593-1B	Pink/Tan Drywall	N	90	ND		15 CELL	85	G
PHA-B1123-1B	21047593-2A	Beige Resinous Material	Y	2	ND			100	C,B
	21047593-2B	White Texture with Cream/White Paint	N	12	ND			100	C
	21047593-2C	Pink/Tan Drywall	N	86	ND		15 CELL	85	G
PHA-B1123-1C	21047593-3A	White Texture with Cream/White Paint	N	10	ND			100	C
	21047593-3B	Pink/Tan Drywall	N	90	ND		15 CELL	85	G
PHA-B1123-1D	21047593-4A	White Texture with Cream/White Paint	N	10	ND			100	C
	21047593-4B	Pink/Tan Drywall	N	90	ND		15 CELL	85	G
PHA-B1123-1E	21047593-5A	White Texture with Cream/White Paint	N	12	ND			100	C

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

AC = Actinolite	AH = Animal Hair	B = Binder	Q = Quartz
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AN = Anthophyllite	FG = Fibrous Glass	D = Diatoms	V = Vermiculite
CHRY = Chrysotile	MW = Mineral Wool	G = Gypsum	
CR = Crocidolite	OT = Other	M = Mica	
TRM = Tremolite	SYN = Synthetic	OR = Organic	
Tr = Trace	TL = Talc	OP = Opaques	
ND = None Detected	W = Wollastonite	P = Perlite	

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Client Project Name:	21-4584 (E) Building #11 / Pueblo Housing Authority		Project ID: 21047593

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1123-1E	21047593-5B	Pink/Tan Drywall	N	88	ND		15 CELL	85	G
PHA-B1123-2A	21047593-6A	White Texture with Cream/White Paint	N	10	ND			100	C
	21047593-6B	White Plaster with Tan/Multicolored Paint	N	20	ND			100	G
	21047593-6C	Gray Perlitic Plaster	N	70	ND		2 AH	98	G
PHA-B1123-2B	21047593-7A	Off-White Resinous Material	Y	5	ND			100	C,B
	21047593-7B	White Texture with Cream Paint	N	5	ND			100	C
	21047593-7C	White Texture with Off-White Paint	N	8	ND			100	C
	21047593-7D	White Texture with Cream/White Paint	N	9	ND			100	C
	21047593-7E	White Texture with White Paint	N	8	ND			100	C
	21047593-7F	White Plaster with Tan Paint	N	25	ND			100	G

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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AM = Amosite	CELL = Cellulose	C = Calcite	T = Tar
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CHRY = Chrysotile	MW = Mineral Wool	G = Gypsum	
CR = Crocidolite	OT = Other	M = Mica	
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Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1123-2B	21047593-7G	Gray Perlitic Plaster	N	40	ND		1 AH	99	G
PHA-B1123-2C	21047593-8A	White Texture with Cream/White Paint	N	8	ND			100	C
	21047593-8B	White Plaster with Tan/Multicolored Paint	N	22	ND			100	G
	21047593-8C	Gray Perlitic Plaster	N	70	ND		1 AH	99	G
PHA-B1123-2D	21047593-9A	White Texture with Cream/White Paint	N	40	ND			100	C
	21047593-9B	White Plaster with Tan/Multicolored Paint	N	10	ND			100	G
	21047593-9C	Gray Perlitic Plaster	N	50	ND		1 AH	99	G
PHA-B1123-2E	21047593-10A	White Texture with Cream/White Paint	N	15	ND			100	C
	21047593-10B	White Plaster with Tan/Multicolored Paint	N	25	ND			100	G
	21047593-10C	Gray Perlitic Plaster	N	60	ND		1 AH	99	G

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Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1123-3A	21047593-11A	White Plaster with Cream/Multicolored Paint	N	10	ND			100	G
	21047593-11B	Pink Perlitic Granular Plaster	N	90	ND		2 AH	98	P,Q
PHA-B1123-3B	21047593-12A	Blue Resinous Material	Y	8	ND			100	C
	21047593-12B	White Plaster with Cream/Multicolored Paint	N	10	ND			100	G
	21047593-12C	Pink Perlitic Granular Plaster	N	82	ND		2 AH	98	P,Q
PHA-B1123-3C	21047593-13A	White Plaster with Cream/Multicolored Paint	N	30	ND			100	G
	21047593-13B	Pink Perlitic Granular Plaster	N	70	ND		2 AH	98	P,Q
PHA-B1123-3D	21047593-14A	White Plaster with Cream/Multicolored Paint	N	15	ND			100	G
	21047593-14B	Pink Perlitic Granular Plaster	N	85	ND		2 AH	98	P,Q
PHA-B1123-3E	21047593-15A	White Plaster with Cream/Multicolored Paint	N	35	ND			100	G

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Test Requested: 3002, Asbestos in Bulk Samples
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Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1123-3E	21047593-15B	Pink Perlitic Granular Plaster	N	65	ND		2 AH	98	P,Q
PHA-B1123-4A	21047593-16A	Off-White Texture with Cream Paint	N	10	ND			100	C
	21047593-16B	Cream/Multicolored Paint	N	10	ND			100	
	21047593-16C	**Tan Compound**	**Y**	**20**	**CHRY**	**3**		**97**	**C**
	21047593-16D	Gray Granular Material	N	60	ND			100	Q
PHA-B1123-4B	21047593-17A	Off-White Texture with Cream Paint	N	25	ND			100	C
	21047593-17B	Cream/Multicolored Paint	N	20	ND			100	
	21047593-17C	**Tan Compound**	**Y**	**52**	**CHRY**	**3**		**97**	**C**
	21047593-17D	Gray Granular Material	N	3	ND			100	Q
PHA-B1123-4C	21047593-18A	Off-White Texture with Cream Paint	N	30	ND			100	C

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Certificate of Analysis

Client Name	All-Phase Environmental Consultants, Inc.		Date Collected: 10/13/2021
Street Address	721 W. 9th St.	NVLAP® TESTING	Date Received: 10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed: 10/26/2021
Attn:	Joseph Cardenas	NVLAP Lab Code 200860-0	Date Reported: 10/26/2021
Client Project Name:	21-4584 (E) Building #11 / Pueblo Housing Authority		Project ID: 21047593

Test Requested: 3002, Asbestos in Bulk Samples
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
PHA-B1123-4C	21047593-18B	Cream/Multicolored Paint	N	30	ND			100	
	21047593-18C	**Tan Compound**	**Y**	**33**	**CHRY**	**3**		**97**	**C**
	21047593-18D	Gray Granular Material	N	7	ND			100	Q

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

AC = Actinolite	AH = Animal Hair	B = Binder	Q = Quartz
AM = Amosite	CELL = Cellulose	C = Calcite	T = Tar
AN = Anthophyllite	FG = Fibrous Glass	D = Diatoms	V = Vermiculite
CHRY = Chrysotile	MW = Mineral Wool	G = Gypsum	
CR = Crocidolite	OT = Other	M = Mica	
TRM = Tremolite	SYN = Synthetic	OR = Organic	
Tr = Trace	TL = Talc	OP = Opaques	
ND = None Detected	W = Wollastonite	P = Perlite	

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Certificate of Analysis

Client Name	All-Phase Environmental Consultants, Inc.	NVLAP TESTING	Date Collected:	10/13/2021
Street Address	721 W. 9th St.	NVLAP Lab Code 200860-0	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed:	10/26/2021
Attn:	Joseph Cardenas		Date Reported:	10/26/2021
Client Project Name:	21-4584 (E) Building #11 / Pueblo Housing Authority		Project ID:	21047593

Test Requested: **3002, Asbestos in Bulk Samples**
Method: EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

General Notes

- **ND** indicates no asbestos was detected; the method detection limit is 1 %.
- **Trace** or "< 1" indicates asbestos was identified in the sample, but the concentration is less than 1% and cannot be quantified without point counting.
- Samples identified as inhomogeneous (more than one layer) are separated into individual layers, and each layer is analyzed and reported separately.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.
- These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.
- Aerobiology does not guarantee the results of tape lifts, microvacs, wipe, and/or debris samples. Accurate analysis cannot be performed due to particle size, media used, and/or amount of material given. Analysis of these materials should be preformed by a TEM. ***A result of ND does not indicate that the sample area does not contain asbestos. It means the analyst could not identify asbestos in the specific sample for the reasons listed above.***

Notes Required by NVLAP

- This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
- This test report relates only to the items tested or calibrated.
- This report is not valid unless it bears the name of a NVLAP-approved signatory.
- Any reproduction of this document must include the entire document in order for the report to be valid.

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Certificate of Analysis

NVLAP TESTING
NVLAP Lab Code 200860-0

Client Name	All-Phase Environmental Consultants, Inc.	Date Collected:	10/13/2021
Street Address	721 W. 9th St.	Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003	Date Analyzed:	11/2/2021
Attn:	Joseph Cardenas	Date Reported:	11/2/2021
Client Project Name:	21-4584 (E) Building #11 / Pueblo Housing Authority	Project ID:	21047593

Test Requested: **3001, Asbestos Point Count in Bulk Samples (400/1000)**

Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials; EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Asbestos Detected	Asbestos Percentage	Point Count Method (400/1000)
Client	Lab Sample Number				
PHA-B1123-4A	**21047593-16C**	**Tan Compound**	**CHRY**	**2.25**	**400**
PHA-B1123-4B	**21047593-17C**	**POSITIVE STOP**			
PHA-B1123-4C	**21047593-18C**	**POSITIVE STOP**			

Piper-Lenore Murphy
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

AC = Actinolite
AM = Amosite
AN = Anthophyllite
CHRY = Chrysotile
CR = Crocidolite
TRM = Tremolite

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Certificate of Analysis

Client Name	All-Phase Environmental Consultants, Inc.	NVLAP TESTING NVLAP Lab Code 200860-0	Date Collected:	10/13/2021
Street Address	721 W. 9th St.		Date Received:	10/15/2021
City, State ZIP	Pueblo, CO 81003		Date Analyzed:	11/2/2021
Attn:	Joseph Cardenas		Date Reported:	11/2/2021
Client Project Name:	21-4584 (E) Building #11 / Pueblo Housing Authority		Project ID:	21047593

Test Requested: **3001, Asbestos Point Count in Bulk Samples (400/1000)**
Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials; EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

General Notes

- **ND** indicates no asbestos was detected; the method detection limit is 1 %.
- **Trace** or "< 1" indicates asbestos was identified in the sample, but the concentration is less than 1% and cannot be quantified without point counting.
- Samples identified as inhomogeneous (more than one layer) are separated into individual layers, and each layer is analyzed and reported separately.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the mineral grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.
- These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.
- Aerobiology does not guarantee the results of tape lifts, microvacs, wipe, and/or debris samples. Accurate analysis cannot be performed due to particle size, media used, and/or amount of material given. Analysis of these materials should be preformed by a TEM. ***A result of ND does not indicate that the sample area does not contain asbestos. It means the analyst could not identify asbestos in the specific sample for the reasons listed above.***

Notes Required by NVLAP

- This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
- This test report relates only to the items tested or calibrated.
- This report is not valid unless it bears the name of a NVLAP-approved signatory.
- Any reproduction of this document must include the entire document in order for the report to be valid.

APPENDIX 7

CHAIN OF CUSTODY FORMS

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Lab Use: 21047587

Page 1 of 2

ELITE Program — AZ, CA, CO, FL, GA, VA, NJ
NVLAP — AZ, CA, CO, VA
AZ, CA, CO, FL, GA, NJ, VA

Aerobiology Client	All-Phase Environmental Consultants, Inc.
Field Contact	JOSEPH CARDENAS
Reporting Address	721 W. 9th St., Pueblo, CO 81003
Billing Address	Same
Phone/Fax	719-545-0375
Reporting Email (s)	Joey @allphaseenvironmental.com
Routine ☒	24 Hour ☐ Same Day ☐ 4 Hour ☐ 2 Hour ☐
SAMPLING LOCATION ZIP CODE	

Collected By/Date: J CARDENAS 10-13-21
Relinquished By/Date: J CARDENAS 10-13-2021
Relinquished By/Date:
Received By/Date: AG 10/15/21 @1020
Sampler Type: Andersen ☐ SAS ☐ SampleAire ☐ AeroTrap ☐ Other ☐ BioCulture ☐
PO#/Job#: 21-4584 (A) BUILDING #11
Project Name: PUEBLO HOUSING AUTHORITY
Notes: Please send invoices to accounting@allphaseenvironmental.com
CC Info:

	Sample No.	Test Code	Sample Location	Total Volume/Area
1	PHA-B113-1A	3002	TEXTURED DRYWALL	
2	1B			
3	1C			
4	1D			
5	1E			
6	2A		TEXTURED PLASTER	
7	2B			
8	2C			
9	2D			
10	2E			
11	3A		SMOOTH PLASTER	
12	3B			
13	3C			
14	3D			
15	3E			

1054	Direct, Non-viable Spore Trap

LAB USE ONLY

A: PK 1-10 TH 11-18 ✓ MS 19-27 ⊕ 28-38 ⊕ 10/26/21

V: ———

Q: AG 10/26/21

1015	Culture - WATER Legionella
1017	Culture - SWAB Legionella
1010	WATER - Potable - E. coli/total coliforms
1012	SWAB - E. coli/total coliforms
1028	SWAB - Sewage Screen (E. coli/Entero/fecal coliforms)
2056	WATER - Heterotrophic Plate Count
3001	ASBESTOS - Point count
3002	ASBESTOS - PLM Analysis
3003	ASBESTOS - Particle characterization
3004	ASBESTOS - PCM Analysis

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ELITE (AZ, CA, CO, FL, GA, VA, NJ) | NVLAP (AZ, CA, CO, VA) | AZ, CA, CO, FL GA, NJ, VA

Aerobiology Client	All-Phase Environmental Consultants, Inc.
Field Contact	JOSEPH CARDENAS
Phone/Fax	719-545-0375
Email	JOEY @allphaseenvironmental.com

Collected By/Date:	JCARDENAS 10-13-21
Relinquished By/Date:	JCARDENAS 10-13-2021
PO#/Job#:	21-4584(A) BUILDING # 11
Project Name:	PUEBLO HOUSING AUTHORITY

	Sample No.	Test Code	Sample Location	Total Volume/Area
16	PHA-B11B-4A	3002	TEXTURED CONCRETE	
17	4B		↓	
18	4C		↓	
19	5A		12X12 FLOOR TILE / MASTIC	
20	5B		↓	
21	6A		COVE BASE / MASTIC	
22	6B		↓	
23	7A		STAIR TREAD	
24	7B		↓	
25	9A		TSI SHEETS	
26	9B		↓	
27	9C		↓ Sample not Received	
28	10A		EXTERIOR SEALANT	
29	10B		↓	
30	11A		WINDOW CAULKING	
31	11B		↓	
32	12A		EXTERIOR SEALANT	
33	12B		↓	
34	12C		↓	
35	12D		↓	
36	12E		↓	
37	8A		Not on original COC	
38	8B		" " "	
39	8C		" " "	
40				

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Lab Use: 21047589

Page 1 of 2

ELITE AZ, CA, CO, FL, GA, VA, NJ | NVLAP AZ, CA, CO, VA | AZ, CA, CO, FL GA, NJ, VA

Aerobiology Client	All-Phase Environmental Consultants, Inc.
Field Contact	JOSEPH CARDENAS
Reporting Address	721 W. 9th St., Pueblo, CO 81003
Billing Address	Same
Phone/Fax	719-545-0375
Reporting Email (s)	JOEY @allphaseenvironmental.com
Routine ☒	24 Hour ☐ Same Day ☐ 4 Hour ☐ 2 Hour ☐
SAMPLING LOCATION ZIP CODE	

Collected By/Date: J CARDENAS 10-13-21
Relinquished By/Date:
Relinquished By/Date: J CARDENAS 10-13-2021
Received By/Date: AG 10/15/21 @1020
Sampler Type: Andersen ☐ SAS ☐ SampleAire ☐ AeroTrap ☐ Other ☐ BioCulture ☐
PO#/Job#: 21-4584 (B) BUILDING #11
Project Name: PUEBLO HOUSING AUTHORITY
Notes: Please send invoices to accounting@allphaseenvironmental.com
CC Info:

	Sample No.	Test Code	Sample Location	Total Volume/Area
1	PHA-B1115-1A	3002	TEXTURED DRYWALL	
2	1B			
3	1C			
4	1D			
5	1E			
6	2A		TEXTURED PLASTER	
7	2B			
8	2C			
9	2D			
10	2E			
11	3A		SMOOTH PLASTER	
12	3B			
13	3C			
14	3D			
15	3E			

1054	Direct, Non-viable Spore Trap

1015	Culture - WATER Legionella
1017	Culture - SWAB Legionella
1010	WATER - Potable - E. coli/total coliforms
1012	SWAB - E. coli/total coliforms
1028	SWAB - Sewage Screen (E. coli/Entero/fecal coliforms)
2056	WATER - Heterotrophic Plate Count
3001	ASBESTOS - Point count
3002	ASBESTOS - PLM Analysis
3003	ASBESTOS - Particle characterization
3004	ASBESTOS - PCM Analysis

LAB USE ONLY

A: TH ⊖ 1-10 ✓ POM ✓ 11-18 ⊕ 10/26/21 ⊕

V: ——

Q: AG 10/26/21

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Expertise Since 1997

Lab Use: 21047589

ELITE AZ, CA, CO, FL, GA, VA, NJ

NVLAP AZ, CA, CO, VA

AZ, CA, CO, FL GA, NJ, VA

Aerobiology Client	All-Phase Environmental Consultants, Inc.		
Field Contact	JOSEPH CARDENAS	Collected By/Date: JCARDENAS 10-13-21	Relinquished By/Date: JCARDENAS 10-13-2021
Phone/Fax	719-545-0375	PO#/Job#: 21-4584	BUILDING # 11
Email	JOZY @allphaseenvironmental.com	Project Name: PUEBLO HOUSING AUTHORITY	

	Sample No.	Test Code	Sample Location	Total Volume/Area
16	PHA-B11S-4A	3002	TEXTURED CONCRETE	
17	4B			
18	4C			
19				
20				
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Lab Use: 21047591

ELITE — AZ, CA, CO, FL, GA, VA, NJ
NVLAP — AZ, CA, CO, VA
AZ, CA, CO, FL, GA, NJ, VA

Aerobiology Client	All-Phase Environmental Consultants, Inc.
Field Contact	JOSEPH CARDENAS
Reporting Address	721 W. 9th St., Pueblo, CO 81003
Billing Address	Same
Phone/Fax	719-545-0375
Reporting Email (s)	Joey @allphaseenvironmental.com
Routine ☒	24 Hour ☐ Same Day ☐ 4 Hour ☐ 2 Hour ☐
SAMPLING LOCATION ZIP CODE	

Collected By/Date: J CARDENAS 10-13-21
Relinquished By/Date: J CARDENAS 10-13-2021
Relinquished By/Date:
Received By/Date: AG 10/15/21 @ 1020
Sampler Type: Andersen ☐ SAS ☐ SampleAire ☐ AeroTrap ☐ Other ☐ BioCulture ☐
PO#/Job#: 21-4584 (C) BUILDING #11
Project Name: PUEBLO HOUSING AUTHORITY
Notes: Please send invoices to accounting@allphaseenvironmental.com
CC Info:

	Sample No.	Test Code	Sample Location	Total Volume/Area
1	PHA-B1117-1A	3002	TEXTURED DRYWALL	
2	1B			
3	1C			
4	1D			
5	1E			
6	2A		TEXTURED PLASTER	
7	2B			
8	2C			
9	2D			
10	2E			
11	3A		SMOOTH PLASTER	
12	3B			
13	3C			
14	3D			
15	3E			

1054	Direct, Non-viable Spore Trap

1015	Culture - WATER Legionella
1017	Culture - SWAB Legionella
1010	WATER - Potable - E. coli/total coliforms
1012	SWAB - E. coli/total coliforms
1028	SWAB - Sewage Screen (E. coli/Entero/fecal coliforms)
2056	WATER - Heterotrophic Plate Count
3001	ASBESTOS - Point count
3002	ASBESTOS - PLM Analysis
3003	ASBESTOS - Particle characterization
3004	ASBESTOS - PCM Analysis

LAB USE ONLY

A: PK 1-10 POM ✓ 11-18 ⊕ 10/26/21 ⊕

V:

Q: AG 10/26/21

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NVLAP AZ, CA, CO, VA

AZ, CA, CO, FL GA, NJ, VA

Aerobiology Client	All-Phase Environmental Consultants, Inc.		
Field Contact	JOSEPH CARDENAS	Collected By/Date: JCARDENAS 10-13-21	Relinquished By/Date: JCARDENAS 10-13-2021
Phone/Fax	719-545-0375	PO#/Job#: 21-4584(c)	BUILDING # 11
Email	Joey @allphaseenvironmental.com	Project Name: PUEBLO HOUSING AUTHORITY	

	Sample No.	Test Code	Sample Location	Total Volume/Area
16	PHA-B1117-4A	3002	TEXTURED CONCRETE	
17	4B			
18	4C			
19				
20				
21				
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Lab Use: 21047592

ELITE AZ, CA, CO, FL, GA, VA, NJ | NVLAP AZ, CA, CO, VA | AZ, CA, CO, FL GA, NJ, VA

Aerobiology Client	All-Phase Environmental Consultants, Inc.		
Field Contact	JOSEPH CARDENAS	Collected By/Date: JCARDENAS 10-13-21	Relinquished By/Date: JCARDENAS 10-13-2021
Reporting Address	721 W. 9th St., Pueblo, CO 81003	Relinquished By/Date:	Received By/Date: AG 10/15/21 @ 1020
Billing Address	Same	Sampler Type: Andersen ☐ SAS ☐	SampleAire ☐ AeroTrap ☐ Other ☐ BioCulture ☐
Phone/Fax	719-545-0375	PO#/Job#: 21-4584 (D) BUILDING #11	
Reporting Email (s)	Joey @allphaseenvironmental.com	Project Name: PUEBLO HOUSING AUTHORITY	
Routine ☒ / 24 Hour ☐ / Same Day ☐ / 4 Hour ☐ / 2 Hour ☐		Notes: Please send invoices to accounting@allphaseenvironmental.com	
SAMPLING LOCATION ZIP CODE		CC Info:	

	Sample No.	Test Code	Sample Location	Total Volume/Area
1	PHA-B1119 - 1A	3002	TEXTURED DRYWALL	
2	1B			
3	1C			
4	1D			
5	1E			
6	2A		TEXTURED PLASTER	
7	2B			
8	2C			
9	2D			
10	2E			
11	3A		SMOOTH PLASTER	
12	3B			
13	3C			
14	3D			
15	3E			

1054	Direct, Non-viable Spore Trap

1015	Culture - WATER Legionella
1017	Culture - SWAB Legionella
1010	WATER - Potable - E. coli/total coliforms
1012	SWAB - E. coli/total coliforms
1028	SWAB - Sewage Screen (E. coli/Entero/fecal coliforms)
2056	WATER - Heterotrophic Plate Count
3001	ASBESTOS - Point count
3002	ASBESTOS - PLM Analysis
3003	ASBESTOS - Particle characterization
3004	ASBESTOS - PCM Analysis

LAB USE ONLY

A: ⊖ TH 1-10 ⊕ ML 11-18 10/26/21 (+)

V: —

Q: AG 10/26/21

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Lab Use: 21047592

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Aerobiology Client	All-Phase Environmental Consultants, Inc.		
Field Contact	JOSEPH CARDENAS	Collected By/Date: JCARDENAS 10-13-21	Relinquished By/Date: JCARDENAS 10-13-2021
Phone/Fax	719-545-0375	PO#/Job#: 21-4584 (D)	BUILDING # 11
Email	Joey @allphaseenvironmental.com	Project Name: PUEBLO HOUSING AUTHORITY	

	Sample No.	Test Code	Sample Location	Total Volume/Area
16	PHA-B1119-4A	3002	TEXTURED CONCRETE	
17	4B			
18	4C			
19				
20				
21				
22				
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Aerobiology Laboratory Associates, Incorporated
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Lab Use: 21047594

ELITE AZ, CA, CO, FL, GA, VA, NJ

NVLAP AZ, CA, CO, VA

AZ, CA, CO, FL GA, NJ, VA

Aerobiology Client	All-Phase Environmental Consultants, Inc.		
Field Contact	JOSEPH CARDENAS	Collected By/Date: J CARDENAS 10-13-21	Relinquished By/Date: J CARDENAS 10-13-2021
Reporting Address	721 W. 9th St., Pueblo, CO 81003	Relinquished By/Date:	Received By/Date: AG 10/15/21 @ 1020
Billing Address	Same	Sampler Type: Andersen ☐ SAS ☐	SampleAire ☐ AeroTrap ☐ Other ☐ BioCulture ☐
Phone/Fax	719-545-0375	PO#/Job#: 21-4584 (E) BUILDING #11	
Reporting Email (s)	JOEY @allphaseenvironmental.com	Project Name: PUEBLO HOUSING AUTHORITY	
Routine ☒ / 24 Hour ☐ / Same Day ☐ / 4 Hour ☐ / 2 Hour ☐		Notes: Please send invoices to accounting@allphaseenvironmental.com	
SAMPLING LOCATION ZIP CODE		CC Info:	

	Sample No.	Test Code	Sample Location	Total Volume/Area
1	PHA-B1121-1A	3002	TEXTURED DRYWALL	
2	1B			
3	1C			
4	2A		TEXTURED PLASTER	
5	2B			
6	2C			
7	3A		SMOOTH PLASTER	
8	3B			
9	3C			
10	~~4A~~			
11				
12				
13				
14				
15				

LAB USE ONLY (−)

A: POM 10/27/21

V: _____

Q: AG 10/27/21

1015	Culture - WATER Legionella
1017	Culture - SWAB Legionella
1010	WATER - Potable - E. coli/total coliforms
1012	SWAB - E. coli/total coliforms
1028	SWAB - Sewage Screen (E. coli/Entero/fecal coliforms)
2056	WATER - Heterotrophic Plate Count
3001	ASBESTOS - Point count
3002	ASBESTOS - PLM Analysis
3003	ASBESTOS - Particle characterization
3004	ASBESTOS - PCM Analysis

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Lab Use: 2604 7596

Page 1 of 2

ELITE AZ, CA, CO, FL, GA, VA, NJ | NVLAP AZ, CA, CO, VA | AZ, CA, CO, FL GA, NJ, VA

Aerobiology Client	All-Phase Environmental Consultants, Inc.
Field Contact	JOSEPH CARDENAS
Reporting Address	721 W. 9th St., Pueblo, CO 81003
Billing Address	Same
Phone/Fax	719-545-0375
Reporting Email (s)	Joey @allphaseenvironmental.com
Routine ☒	24 Hour ☐ Same Day ☐ 4 Hour ☐ 2 Hour ☐
SAMPLING LOCATION ZIP CODE	

Collected By/Date: J CARDENAS 10-13-21
Relinquished By/Date:
Relinquished By/Date: J CARDENAS 10-13-2021
Received By/Date: AG 10/15/21 @020
Sampler Type: Andersen ☐ SAS ☐ SampleAire ☐ AeroTrap ☐ Other ☐ BioCulture ☐
PO#/Job#: 21-4584 (F) BUILDING #11
Project Name: PUEBLO HOUSING AUTHORITY
Notes: Please send invoices to accounting@allphaseenvironmental.com
CC Info:

	Sample No.	Test Code	Sample Location	Total Volume/Area
1	PHA-B1125-1A	3002	TEXTURED DRYWALL	
2	1B			
3	1C			
4	1D			
5	1E			
6	2A		TEXTURED PLASTER	
7	2B			
8	2C			
9	2D			
10	2E			
11	3A		SMOOTH PLASTER	
12	3B			
13	3C			
14	3D			
15	3E			

1054 Direct Non-visible ...

LAB USE ONLY

A: ⊖ ✓ ms 1-10 PK + 11-18 (+) 10/27/21

V: _____

Q: AG 10/27/21

1015	Culture - WATER Legionella
1017	Culture - SWAB Legionella
1010	WATER - Potable - E. coli/total coliforms
1012	SWAB - E. coli/total coliforms
1028	SWAB - Sewage Screen (E. coli/Entero/fecal coliforms)
2056	WATER - Heterotrophic Plate Count
3001	ASBESTOS - Point count
3002	ASBESTOS - PLM Analysis
3003	ASBESTOS - Particle characterization
3004	ASBESTOS - PCM Analysis

Aerobiology Laboratory Associates, Incorporated
Expertise Since 1997

Lab Use: 21047596

ELITE AZ, CA, CO, FL, GA, VA, NJ

NVLAP AZ, CA, CO, VA

AZ, CA, CO, FL GA, NJ, VA

Aerobiology Client	All-Phase Environmental Consultants, Inc.		
Field Contact	JOSEPH CARDENAS	Collected By/Date: JCARDENAS 10-13-21	Relinquished By/Date: JCARDENAS 10-13-2021
Phone/Fax	719-545-0375	PO#/Job#: 21-4584F1 BUILDING # 11	
Email	JOEY @allphaseenvironmental.com	Project Name: PUEBLO HOUSING AUTHORITY	

	Sample No.	Test Code	Sample Location	Total Volume/Area
16	PHA-B11S-4A	3002	TEXTURE ON CONCRETE	
17	4B			
18	4C			
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Aerobiology Laboratory Associates, Incorporated
Expertise Since 1997

Lab Use: 21047597

* AG 10/15/21

Page 1 of 2

ELITE — AZ, CA, CO, FL, GA, VA, NJ
NVLAP — AZ, CA, CO, VA
AZ, CA, CO, FL, GA, NJ, VA

Aerobiology Client	All-Phase Environmental Consultants, Inc.
Field Contact	JOSEPH CARDENAS
Reporting Address	721 W. 9th St., Pueblo, CO 81003
Billing Address	Same
Phone/Fax	719-545-0375
Reporting Email (s)	Joey @allphaseenvironmental.com
Routine	☒
24 Hour	☐
Same Day	☐
4 Hour	☐
2 Hour	☐
SAMPLING LOCATION ZIP CODE	

Collected By/Date: J CARDENAS 10-13-21
Relinquished By/Date:
Relinquished By/Date: J CARDENAS 10-13-2021
Received By/Date: * AG 10/15/21 @ 1020
Sampler Type: Andersen ☐ SAS ☐ SampleAire ☐ AeroTrap ☐ Other ____ BioCulture ☐
PO#/Job#: 21-4584 (G) BUILDING #11
Project Name: PUEBLO HOUSING AUTHORITY
Notes: Please send invoices to accounting@allphaseenvironmental.com
CC Info:

	Sample No.	Test Code	Sample Location	Total Volume/Area
1	PHA-B1127-1A	3002	TEXTURED DRYWALL	
2	1B			
3	1C			
4	1D			
5	1E			
6	2A		TEXTURED PLASTER	
7	2B			
8	2C			
9	2D			
10	2E			
11	3A		SMOOTH PLASTER	
12	3B			
13	3C			
14	3D			
15	3E			

LAB USE ONLY

A: TH ✓ 1-10 (+) Pam ✓ 11-18 (+) 10/27/21

V: ____

Q: AG 10/27/21

1015	Culture - WATER Legionella
1017	Culture - SWAB Legionella
1010	WATER - Potable - E. coli/total coliforms
1012	SWAB - E. coli/total coliforms
1028	SWAB - Sewage Screen (E. coli/Entero/fecal coliforms)
2056	WATER - Heterotrophic Plate Count
3001	ASBESTOS - Point count
3002	ASBESTOS - PLM Analysis
3003	ASBESTOS - Particle characterization
3004	ASBESTOS - PCM Analysis

Aerobiology Laboratory Associates, Incorporated
Expertise Since 1997

Lab Use: 21047597

ELITE AZ, CA, CO, FL, GA, VA, NJ

NVLAP AZ, CA, CO, VA

AZ, CA, CO, FL GA, NJ, VA

Aerobiology Client	All-Phase Environmental Consultants, Inc.
Field Contact	JOSEPH CARDENAS
Phone/Fax	719-545-0375
Email	JOZY @allphaseenvironmental.com
Collected By/Date:	JCARDENAS 10-13-21
Relinquished By/Date:	JCARDENAS 10-13-2021
PO#/Job#:	21-4584(G) BUILDING # 11
Project Name:	PUEBLO HOUSING AUTHORITY

	Sample No.	Test Code	Sample Location	Total Volume/Area
16	PHA-B1127-4A	3002	TEXTURE ON CONCRETE	
17	4B			
18	4C			
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Aerobiology Laboratory Associates, Incorporated
Expertise Since 1997

Lab Use: 21047598

ELITE — AZ, CA, CO, FL, GA, VA, NJ

NVLAP — AZ, CA, CO, VA

AZ, CA, CO, FL, GA, NJ, VA

Aerobiology Client	All-Phase Environmental Consultants, Inc.		
Field Contact	JOSEPH CARDENAS	Collected By/Date: J CARDENAS 10-13-21	Relinquished By/Date: J CARDENAS 10-13-2021
Reporting Address	721 W. 9th St., Pueblo, CO 81003	Relinquished By/Date:	Received By/Date: AG 10/15/21 @ 1020
Billing Address	Same	Sampler Type: Andersen ☐ SAS ☐	SampleAire ☐ AeroTrap ☐ Other ☐ BioCulture ☐
Phone/Fax	719-545-0375	PO#/Job#: 21-4584 ( ) BUILDING #11	
Reporting Email (s)	JOEY @allphaseenvironmental.com	Project Name: PUEBLO HOUSING AUTHORITY	
Routine ☒ / 24 Hour ☐ / Same Day ☐ / 4 Hour ☐ / 2 Hour ☐		Notes: Please send invoices to accounting@allphaseenvironmental.com	
SAMPLING LOCATION ZIP CODE		CC Info:	

	Sample No.	Test Code	Sample Location	Total Volume/Area
1	PHA-B1129-1A	3002	TEXTURED DRYWALL	
2	1B			
3	1C			
4	1D			
5	1E			
6	2A		TEXTURED PLASTER	
7	2B			
8	2C			
9	2D			
10	2E			
11	3A		SMOOTH PLASTER	
12	3B			
13	3C			
14	3D			
15	3E			

1054	Direct Non-viable Spore Trap
1015	Culture - WATER Legionella
1017	Culture - SWAB Legionella
1010	WATER - Potable - E. coli/total coliforms
1012	SWAB - E. coli/total coliforms
1028	SWAB - Sewage Screen (E. coli/Entero/fecal coliforms)
2056	WATER - Heterotrophic Plate Count
3001	ASBESTOS - Point count
3002	ASBESTOS - PLM Analysis
3003	ASBESTOS - Particle characterization
3004	ASBESTOS - PCM Analysis

LAB USE ONLY

A: dK 1-10 AG 11-18 (+) 10/27/21

V:

Q: AG 10/27/21

Aerobiology Laboratory Associates, Incorporated
Expertise Since 1997

Lab Use: 21047598

ELITE AZ, CA, CO, FL, GA, VA, NJ

NVLAP AZ, CA, CO, VA

AZ, CA, CO, FL GA, NJ, VA

Aerobiology Client	All-Phase Environmental Consultants, Inc.
Field Contact	JOSEPH CARDENAS
Phone/Fax	719-545-0375
Email	JOEY @allphaseenvironmental.com

Collected By/Date: JCARDENAS 10-13-21

Relinquished By/Date: JCARDENAS 10-13-2021

PO#/Job#: 21-4584C1 BUILDING # 11

Project Name: PUEBLO HOUSING AUTHORITY

	Sample No.	Test Code	Sample Location	Total Volume/Area
16	PHA-B1129-4A	3002	TEXTURED CONCRETE	
17	4B			
18	4C			
19				
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Aerobiology Laboratory Associates, Incorporated
Expertise Since 1997

Lab Use: 21047593

Page 1 of 2

ELITE — AZ, CA, CO, FL, GA, VA, NJ
NVLAP — AZ, CA, CO, VA
AZ, CA, CO, FL GA, NJ, VA

Aerobiology Client	All-Phase Environmental Consultants, Inc.		
Field Contact	JOSEPH CARDENAS	Collected By/Date: J CARDENAS 10-13-21	Relinquished By/Date: J CARDENAS 10-13-2021
Reporting Address	721 W. 9th St., Pueblo, CO 81003	Relinquished By/Date:	Received By/Date: TG 10/15/21 @1020
Billing Address	Same	Sampler Type: Andersen ☐ SAS ☐	SampleAire ☐ AeroTrap ☐ Other ☐ BioCulture ☐
Phone/Fax	719-545-0375	PO#/Job#: 21-4584(E) BUILDING #11	
Reporting Email (s)	Joey @allphaseenvironmental.com	Project Name: PUEBLO HOUSING AUTHORITY	
Routine ☒ / 24 Hour ☐ / Same Day ☐ / 4 Hour ☐ / 2 Hour ☐		Notes: Please send invoices to accounting@allphaseenvironmental.com	
SAMPLING LOCATION ZIP CODE		CC Info:	

	Sample No.	Test Code	Sample Location	Total Volume/Area
1	PHA-B1123-1A	3002	TEXTURED DRYWALL	
2	1B			
3	1C			
4	1D			
5	1E			
6	2A		TEXTURED PLASTER	
7	2B			
8	2C			
9	2D			
10	2E			
11	3A		SMOOTH PLASTER	
12	3B			
13	3C			
14	3D			
15	3E			

1054 Direct Non-viable Spore Trap

1015	Culture - WATER Legionella
1017	Culture - SWAB Legionella
1010	WATER - Potable - E. coli/total coliforms
1012	SWAB - E. coli/total coliforms
1028	SWAB - Sewage Screen (E. coli/Entero/fecal coliforms)
2056	WATER - Heterotrophic Plate Count
3001	ASBESTOS - Point count
3002	ASBESTOS - PLM Analysis
3003	ASBESTOS - Particle characterization
3004	ASBESTOS - PCM Analysis

LAB USE ONLY

A: TH ⊖ 1-10 ✓ PCM 11-18 ⊕ ✓

V: ——

Q: AG 10/20/21

⊕

AZ 3700 | Cherry Hill, NJ (856) 486-1177 | Los Angeles, CA (714) 895-8401 | Ft. Lauderdale, FL (954) 451-3725

Revision 12

Aerobiology Laboratory Associates, Incorporated
Expertise Since 1997

Lab Use: 21047593

ELITE AZ, CA, CO, FL, GA, VA, NJ

NVLAP AZ, CA, CO, VA

AZ, CA, CO, FL GA, NJ, VA

Aerobiology Client	All-Phase Environmental Consultants, Inc.
Field Contact	JOSEPH CARDENAS
Phone/Fax	719-545-0375
Email	Joey @allphaseenvironmental.com

Collected By/Date: JCARDENAS 10-13-21	Relinquished By/Date: JCARDENAS 10-13-2021
PO#/Job#: 21-4584 (E)	BUILDING # 11
Project Name: PUEBLO HOUSING AUTHORITY	

	Sample No.	Test Code	Sample Location	Total Volume/Area
16	PHA-B1123-4A	3002	TEXTURED CONCRETE	
17	4B			
18	4C			
19				
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APPENDIX 8

ASBESTOS INSPECTOR CERTIFICATIONS
&
LABORATORY CERTIFICATIONS

Colorado Department
of Public Health
and Environment

ASBESTOS CERTIFICATION*

This certifies that

Joseph Cardenas

Certification No.: 24591

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: **May 20, 2021**

Expires: **June 10, 2022**

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

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: **April 26, 2021**

Expires: **April 26, 2022**

**** 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

Colorado Department
of Public Health
and Environment

ASBESTOS LABORATORY

This certifies that

Pace Analytical Services, LLC dba Aerobiology Lab.

Registration No.: AL - 26861

has met the registration requirements of 25-7-507, C.R.S. and the Air Quality Control Commission Regulation No. 8, Part B, and is hereby authorized to perform asbestos laboratory testing activities, as required by Regulation No 8, Part B, in the state of Colorado.

Issued: May 27, 2021
Expires: May 27, 2022

Authorized APCD Representative

SEAL

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200860-0

Aerobiology Laboratory Associates, Inc.

Golden, 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 17025:2017. 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).

2021-10-01 through 2022-09-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

APPENDIX 9

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 - (SFRD)	32 square feet 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 10

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.